Title	Authors	Publication Year	Filter
A new embedded vision system for monitoring tool conditions in production lines using a combination of direct and indirect methods	Scharf, Henry Peterson; Cambraia, Heraldo Nelio; da Costa, Dalberto Dias	2023	Abstract: Algorithm
The future of manufacturing industry: a strategic roadmap toward Industry 4.0	Ghobakhloo, Morteza	2018	Title: strategic
A Generalized Data-Driven Energy Prediction Model with Uncertainty for a Milling Machine Tool using Gaussian Process	Park, Jinkyoo; Law, Kincho H.; Bhinge, Raunak; Biswas, Nishant; Srinivasan, Amrita; Dornfeld, David A.; Helu, Moneer; Rachuri, Sudarsan	2015	Title: Process
Application of supervised machine learning for defect detection during metallic powder bed fusion additive manufacturing using high resolution imaging	Gobert, Christian; Reutzel, Edward W.; Petrich, Jan; Nassar, Abdalla R.; Phoha, Shashi	2018	Title: additive
A state-of-the-art survey of Digital Twin: techniques, engineering product lifecycle management and business innovation perspectives	Lim, Kendrik Yan Hong; Zheng, Pai; Chen, Chun-Hsien	2020	Title: digital twin
A toolbox for the design, planning and operation of manufacturing networks in a mass customisation environment	Mourtzis, Dimitris; Doukas, Michalis; Psarommatis, Foivos	2015	Abstract: Algorithm
Analysis of Feature Extracting Ability for Cutting State Monitoring Using Deep Belief Networks	Fu, Yang; Zhang, Yun; Qiao, Haiyu; Li, Dequn; Zhou, Huamin; Leopold, Juergen	2015	Title: Algorithm
A blockchain enabled Cyber-Physical System architecture for Industry 4.0 manufacturing systems	Lee, Jay; Azamfar, Moslem; Singh, Jaskaran	2019	Title: blockchain
Artificial intelligence for an energy and resource efficient manufacturing chain design and operation	Rentsch, Ruediger; Heinzel, Carsten; Brinksmeier, E.	2015	Abstract: Process
Design of a high performance predictive tool for forging operation	Ciancio, Claudio; Ambrogio, Teresa Citrea Giuseppina; Filice, Luigi; Musmanno, Roberto	2015	Abstract: Product
Intelligent CNC Tool Path Optimization for Sculptured Surface Machining Through a Virus-Evolutionary Genetic Algorithm	Fountas, Nikolaos A.; Vaxevanidis, Nikolaos M.; Stergiou, Constantinos I.; Benhadj-Djilali, Redha	2015	Title: Algorithm
A big data-driven framework for sustainable and smart additive manufacturing	Majeed, Arfan; Zhang, Yingfeng; Ren, Shan; Lv, Jingxiang; Peng, Tao; Waqar, Saad; Yin, Enhuai	2021	Title: additive

A digital twin to train deep reinforcement learning agent for smart manufacturing plants: Environment, interfaces and intelligence	Xia, Kaishu; Sacco, Christopher; Kirkpatrick, Max; Saidy, Clint; Nguyen, Lam; Kircaliali, Anil; Harik, Ramy	2021	Title: digital twin
From Artificial Intelligence to Explainable Artificial		2021	Title. digital twill
Intelligence in Industry 4.0: A Survey on What, How, and	Ahmed, Imran; Jeon, Gwanggil; Piccialli, Francesco		
Where	30, 11, 11, 11, 11, 11, 11, 11, 11, 11, 1	2022	Title: survey
Investigating the effects of Smart Production Systems on	Waibel, M. W.; Steenkamp, L. P.; Moloko, N.;		·
sustainability elements	Oosthuizen, G. A.	2017	Title: sustainab
Barriers to big data analytics in manufacturing supply chains:	Moktadir, Md Abdul; Ali, Syed Mithun; Paul, Sanjoy		
A case study from Bangladesh	Kumar; Shukla, Nagesh	2019	Title: supply chain
Intelligent Sensitivity Tracking of Manufacturing Tool Tuning	Chuang, C. J.; Ho, C. T.; Tsai, P. F.; Liu, W. P.; Hsieh, C.		
Intelligent Sensitivity fracking of Manufacturing 1001 fulling	R.; Mou, J. I.	2015	Abstract: Process
Data-driven cost estimation for additive manufacturing in cybermanufacturing	Chan, Siu L.; Lu, Yanglong; Wang, Yan	2018	Title: additive
A nonparametric EWMA control chart for monitoring mixed			
continuous and count data	Xue, Li; Wang, Qiuyu; He, Zhen; Qiu, Peihua	2023	Abstract: No DAS for ML
On knowledge reuse for manufacturing systems design and	Efthymiou, Konstantinos; Sipsas, Konstantinos;		
planning: A semantic technology approach	Mourtzis, Dimitris; Chryssolouris, George	2015	Abstract: No DAS for ML
Hybrid multiobjective genetic algorithms for integrated			
dynamic scheduling and routing of jobs and automated-	Umar, Umar Ali; Ariffin, M. K. A.; Ismail, N.; Tang, S. H.		
guided vehicle (AGV) in flexible manufacturing systems	Offidir, Offidir All, Affiffit, Mr. N. A., Istifdir, N., Talig, S. H.		
(FMS) environment		2015	Title: AGV
Digital twin-driven supervised machine learning for the	Alexopoulos, Kosmas; Nikolakis, Nikolaos;		
development of artificial intelligence applications in	Chryssolouris, George		
manufacturing	Cili yssolouris, George	2020	Title: digital twin
Tool Life of Coated Carbide Cutting Tool when Turning	Elmunafi, Mohamed Handawi Saad; Noordin, M. Y.;		
Hardened Stainless Steel under Minimum Quantity Lubricant	Kurniawan, D.		
using Castor Oil	Kurinawan, D.	2015	Title: Process
A Cyber-Physical Production System Framework of Smart	Zhu, Kunpeng; Zhang, Yu		
CNC Machining Monitoring System	Ziia, Naiipelig, Ziialig, Ta	2018	Included in investigation
Use of Castor Oil as Cutting Fluid in Machining of Hardened	Elmunafi, Mohamed Handawi Saad; Kurniawan, D.;		
Stainless Steel with Minimum Quantity of Lubricant	Noordin, M. Y.	2015	Title: fluid

Digital Twin-enabled Collaborative Data Management for	Liu, Chao; Le Roux, Leopold; Korner, Carolin; Tabaste,		
Metal Additive Manufacturing Systems	Olivier; Lacan, Franck; Bigot, Samuel	2022	Title: additive
Challenges and Opportunities of Condition-based Predictive Maintenance: A Review	Sakib, Nazmus; Wuest, Thorsten	2018	Title: review
Digital Twin for Machining Tool Condition Prediction	Qiao, Qianzhe; Wang, Jinjiang; Ye, Lunkuan; Gao, Robert X.	2019	Title: digital twin
A Data-Driven Approach to Predict Hand Positions for Two-	Arisoy, Erhan Batuhan; Ren, Guannan; Ulu, Erva; Ulu,		
Hand Grasps of Industrial Objects	Nurcan Gecer; Musuvathy, Suraj	2016	Title: Process
Aquaculture Production Processes and Training Validation Through Serious Games	Marcelino-Jesus, Elsa; Artifice, Andreia; Sarraipa, Joao; Luis-Ferreira, Fernando; Ilie-Zudor, Elisabeth; Jardim- Goncalves, Ricardo	2016	Title: Process
Cognitive decision-making systems for scraps control in	Matarazzo, Davide; D'Addona, Doriana M.; Caramiello,		
aerospace turbine blade casting	Ciro; Di Foggia, Michele; Teti, Roberto	2016	Title: Product
Comparative analysis of the properties of the nodular cast	Wilk-Kolodziejczyk, Dorota; Regulski, Krzysztof;		
iron with carbides and the austempered ductile iron with	Gumienny, Grzegorz		
use of the machine learning and the support vector machine	duffieritty, drzegorz	2016	Title: Algorithm
A deep learning approach to electric load forecasting of machine tools	Dietrich, B.; Walther, J.; Chen, Y.; Weigold, M.	2021	Abstract: Algorithm
Digital manufacturing and flexible assembly technologies for reconfigurable aerospace production systems	Jackson, Keith; Efthymiou, Konstantinos; Borton, John	2016	Title: Process
Enhancing Spindle Power Data Application with Neural Network for Real-Time Tool Wear/Breakage Prediction during Inconel Drilling	Corne, Raphael; Nath, Chandra; El Mansori, Mohamed; Kurfess, Thomas	2016	Title: Process
A fog computing-based framework for process monitoring and prognosis in cyber-manufacturing	Wu, Dazhong; Liu, Shaopeng; Zhang, Li; Terpenny, Janis; Gao, Robert X.; Kurfess, Thomas; Guzzo, Judith A.	2017	Included in investigation
A framework to guide the selection and configuration of machine-learning-based data analytics solutions in manufacturing	Zacarias, Alejandro Gabriel Villanueva; Reimann, Peter; Mitschang, Bernhard	2018	Included in investigation
Deep Learning of Variant Geometry in Layerwise Imaging	Imani, Farhad; Chen, Ruimin; Diewald, Evan; Reutzel,		
Profiles for Additive Manufacturing Quality Control	Edward; Yang, Hui	2019	Title: additive
Failure analysis of jaw crusher and its components using ANOVA	Sinha, R. S.; Mukhopadhyay, A. K.	2016	Title: Process

Hamiltonian dynamics and control of a joint autonomous	Lucy and the district Vol. 1		
land-air operation	Ivancevic, Vladimir; Yue, Yi	2016	Title: Process
Incorporating design improvement with effective evaluation using the Manufacturing System Design Decomposition (MSDD)	Cochran, David S.; Jafri, Mohammad Umair; Chu, Alex K.; Bi, Zhuming	2016	Title: Process
Residual stresses in wire-arc additive manufacturing - Hierarchy of influential variables	Wu, Q.; Mukherjee, T.; De, A.; DebRoy, T.	2020	Title: additive
Machine learning and knowledge graph based design rule construction for additive manufacturing	Ko, Hyunwoong; Witherell, Paul; Lu, Yan; Kim, Samyeon; Rosen, David W.	2021	Title: additive
A Predictive Maintenance Approach in Manufacturing Systems via Al-based Early Failure Detection	Hosseinzadeh, Ali; Chen, F. Frank; Shahin, Mohammad; Bouzary, Hamed	2023	Abstract: Algorithm
A Hybrid Machine Learning Approach for Predictive Maintenance in Smart Factories of the Future	Cho, Sangje; May, Gokan; Tourkogiorgis, Ioannis; Perez, Roberto; Lazaro, Oscar; de la Maza, Borja; Kiritsis, Dimitris	2018	Included in investigation
Intelligent optimization for sculptured surface CNC toolpaths	Fountas, N. A.; Stergiou, C. I.; Majstorovic, V. D.; Vaxevanidis, N. M.	2016	Title: Process
Machine Condition Detection for Milling Operations Using	Narayanan, Anantha; Kanyuck, Alec; Gupta, Satyandra		
Low Cost Ambient Sensors	K.; Rachuri, Sudarsan	2016	Title: Process
Maintenance of Virtual Metrology Models	Iskandar, Jimmy; Moyne, James	2016	Title: Process
Multiobjective optimization of torch brazing process by a hybrid of fuzzy logic and multiobjective artificial bee colony algorithm	Alvarado-Iniesta, Alejandro; Garcia-Alcaraz, Jorge L.; Pina-Monarrez, Manuel; Perez-Dominguez, Luis	2016	Title: Algorithm
Simultaneous monitoring of mean vector and covariance			
matrix shifts in bivariate manufacturing processes using hybrid ensemble learning-based model	Yang, Wen-An	2016	Title: Algorithm
Spare Part Stock Modeling and Cost Optimization	Turpela, Joel; Lehtinen, Timo	2016	Abstract: No relation to ML
A New Approach to Develop an Intelligent Manufacturing System Using Virtual Tools	Guerra-Zubiaga, David; Morton, Corey; Stacey, Derrick; Peach, Virginia; Ham, Chan; Escobar, Diego Escobar; Hitchcock, Noah	2021	Abstract: Digital Twin
Supporting the Engineering of Cyber-Physical Production	Sabou, Marta; Ekaputra, Fajar; Kovalenko, Olga; Biffl,		-
Systems with the AutomationML Analyzer	Stefan	2016	Abstract: No relation to ML

The effect of geometrical parameters on the characteristics			
of ultrasonic processing for metal matrix nanocomposites	Pasumarthi, Pavan; Absar, Saheem; Choi, Hongseok		
(MMNCs)	asamarem, ravam, russar, sameem, enoi, mongseek	2016	Title: Product
Digital twin for cutting tool: Modeling, application and	Xie, Yang; Lian, Kunlei; Liu, Qiong; Zhang, Chaoyong;		
service strategy	Liu, Hongqi	2021	Title: digital twin
The effect of minimum quantity lubrication under different			
parameters in the turning of AA7075 and AA2024 aluminium	Cakir, A.; Yagmur, S.; Kavak, N.; Kucukturk, G.; Seker, U.		
alloys		2016	Title: Process
A Comparative Study on Machine Learning Algorithms for	Wu, Dazhong; Jennings, Connor; Terpenny, Janis; Gao,		
Smart Manufacturing: Tool Wear Prediction Using Random	Robert X.; Kumara, Soundar		
Forests	Nobel CA., Rumara, Soundar	2017	Title: Algorithm
A decision-making tool based on decision trees for	Rodriguez, Juan J.; Quintana, Guillem; Bustillo, Andres;		
roughness prediction in face milling	Ciurana, Joaquim	2017	Title: Algorithm
A Generalized Method for Featurization of Manufacturing	Ferguson, Max; Law, Kincho H.; Bhinge, Raunak; Lee,		
Signals, With Application to Tool Condition Monitoring	Yung-Tsun Tina	2017	Abstract: Process
A neural network based approach for background noise	Zafar, T.; Kamal, K.; Sheikh, Z.; Mathavan, S.; Ali, U.;		
reduction in airborne acoustic emission of a machining	Hashmi, H.		
process	riasiirii, ri.	2017	Title: Process
Agent Based Framework to Support Manufacturing Problem			
Solving Integrating Product Lifecycle Management and Case-	Camarillo, Alvaro; Rios, Jose; Althoff, Klaus-Dieter		
Based Reasoning		2017	Title: Process
An application of Industry 4.0 to the production of	Caricato, Pierpaolo; Grieco, Antonio		
packaging films	currents, ricipation, directs, runtonio	2017	Title: Product
A novel material removal prediction method based on	Gao, Kaiyuan; Chen, Huabin; Zhang, Xiaoqiang; Ren,		
acoustic sensing and ensemble XGBoost learning algorithm	XuKai; Chen, Junqi; Chen, Xiaoqi		
for robotic belt grinding of Inconel 718	Adical, cherry surique cherry, Alaboqu	2019	Title: robot
Deep Learning-based Human Motion Prediction considering	Liu, Zitong; Liu, Quan; Xu, Wenjun; Liu, Zhihao; Zhou,		
Context Awareness for Human-Robot Collaboration in	Zude; Chen, Jie		
Manufacturing	Zado, chen, sie	2019	Title: robot
An Artificial Intelligence Prediction Method of Bottomhole	Di, Qin-Feng; Chen, Wei; Zhang, Jing-Nan; Wang, Wen-		
Flowing Pressure for Gas Wells Based on Support Vector	Chang; Chen, Hui-Juan		
Machine	Chang, Chen, Har Jaan	2017	Title: Algorithm

A proposal for improving production efficiency of existing machining line through a hybrid monitoring and optimisation process	Herwan, Jonny; Misaka, Takashi; Furukawa, Yoshiyuki; Ogura, Ichiro; Komoto, Hitoshi	2023	Abstract: Algorithm
Big Data Analytics to Improve Photomask Manufacturing Productivity	Fan, Xiaoming; Zhu, Xuan; Kuo, Kuei Chi; Lu, Cong; Wu, Jason	2017	Title: Process
Cutting Process Monitoring System Using Audible Sound Signals and Machine Learning Techniques: An Application to End Milling	Kothuru, Achyuth; Nooka, Sai Prasad; Liu, Rui	2017	Title: Process
A state-of-the-art on production planning in Industry 4.0	Luo, Dan; Thevenin, Simon; Dolgui, Alexandre	2023	Abstract: Survey
A Review of Current Machine Learning Techniques Used in Manufacturing Diagnosis	Ademujimi, Toyosi Toriola; Brundage, Michael P.; Prabhu, Vittaldas V.	2017	Title: review
Building free-form thin shell parts using supportless extrusion-based additive manufacturing	Bhatt, Prahar M.; Malhan, Rishi K.; Rajendran, Pradeep; Gupta, Satyandra K.	2020	Title: additive
Data-Driven Prognostics Using Random Forests: Prediction of Tool Wear	Wu, Dazhong; Jennings, Connor; Terpenny, Janis; Gao, Robert; Kumara, Soundar	2017	Title: Algorithm
Design for reduced resource consumption during the use phase of products	Shu, L. H.; Duflou, Joost; Herrmann, Christoph; Sakao, Tomohiko; Shimomura, Yoshiki; De Bock, Yannick; Srivastava, Jayesh	2017	Title: No relation to ML
Big Data and the Precision Medicine Revolution	Hopp, Wallace J.; Li, Jun; Wang, Guihua	2018	Title: medicine
Eco-Intelligent Factories: Timescales for Environmental Decision Support	Woolley, Elliot; Simeone, Alessandro; Rahimifard, Shahin	2017	Abstract: No DAS for ML
Estimating high precision hole diameters of aerospace alloys using artificial intelligence systems: a comparative analysis of different techniques	Aguiar, P. R.; Da Silva, R. B.; Gernimo, T. M.; Franchin, M. N.; Bianchi, E. C.	2017	Title: Product
Exploit the Value of Production Data to Discover			
Opportunities for Saving Power Consumption of Production Tools	Yu, Chih-Min; Chien, Chen-Fu; Kuo, Chung-Jen	2017	Abstract: Product
A Predictive Maintenance System Design and Implementation for Intelligent Manufacturing	Cinar, Eyup; Kalay, Sena; Saricicek, Inci	2022	Included in investigation
A statistical method for build orientation determination in additive manufacturing	Zhang, Yicha; Harik, Ramy; Fadel, Georges; Bernard, Alain	2019	Title: additive

Sapadhar, N.; Vernekar, Kiran; Kumar, Hemantha; Narendranath, S.  2017 Title: Algorithm  Sahal, Radhya; Alsamhi, Saeed H.; Brown, Kenneth N.; O'Shea, Donna; McCarthy, Conor; Guizani, Mohsen  O'Shea, Donna; McCarthy, Conor; Guizani, M				
Narendranath, S.  2017 Title: Algorithm  Narendranath, S.  2018 Abstract: Simulation  Nath, Chandra; Kapoor, Shiv G.; Srivastava, Anil K.  2017 Title: additive  Nath, Chandra; Kapoor, Shiv G.; Srivastava, Anil K.  2017 Title: fluid  Nath, Chandra; Kapoor, Shiv G.; Srivastava, Anil K.  2017 Title: fluid  Nath, Chandra; Kapoor, Shiv G.; Srivastava, Anil K.  2017 Title: fluid  Nath, Chandra; Kapoor, Shiv G.; Srivastava, Anil K.  2017 Title: fluid  Nath, Chandra; Kapoor, Shiv G.; Srivastava, Anil K.  2017 Title: fluid  Nath, Chandra; Kapoor, Shiv G.; Srivastava, Anil K.  2017 Title: fluid  Nath, Chandra; Kapoor, Shiv G.; Srivastava, Anil K.  2017 Title: fluid  Nath, Chandra; Kapoor, Shiv G.; Srivastava, Anil K.  2017 Abstract: AGV  Nath, Chandra; Kapoor, Shiv G.; Srivastava, Anil K.  2017 Title: fluid  Nath, Chandra; Kapoor, Shiv G.; Srivastava, Anil K.  2017 Abstract: No DAS for ML  Nath, Chandra; Kapoor, Shiv G.; Srivastava, Anil K.  2017 Abstract: No DAS for ML  Nath, Chandra; Kapoor, Shiv G.; Srivastava, Anil K.  2017 Abstract: No DAS for ML  Nath, Chandra; Kapoor, Shiv G.; Srivastava, Anil K.  2017 Abstract: Simulation  Nathract: Process  Nathract: Process  Nathract: Process  Nathract: Process  Nathract: Process  Nathract: Process  Nathraction of Abstract: Process  Nathraction of Abstract	Fault Diagnosis of Single Point Cutting Tool through Discrete	Gangadhar N.: Vernekar Kiran: Kumar Hemantha:		
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O'Shea, Donna; McCarthy, Conor; Guizani, Mohsen O'Shea, Donna; McCarthy, Conor; Guizani, Mohsen Oothinuous Eulerian tool path strategies for wire-arc idditive manufacturing of rib-web structures with machine-learning-based adaptive void filling inish turning of Ti-6Al-4V with the atomization-based utting fluid (ACF) spray system Arrust-Based Team Formation Framework for Mobile Intelligence in Smart Factories Maintenance in digitalised manufacturing; Delphi-based cenarios for 2030 Maintenance in digitalised manufacturing: Delphi-based cenarios for 2030 Maintenance in digitalised manufacturing a virtual factory epresentation Microstructure-Informed Cloud Computing for interoperability of Materials Databases and Computational Models: Microtextured Regions in Ti Modeling of a production system using the multi-agent informatic processive is off computing techniques Multisensory fusion based virtual tool wear sensing for ibidiquitous manufacturing Davan, Lixiang Davan, Davan, Ruit, Lanthin, Machanda, Lixiang Davan, D	Technique and Multilayer Perceptron	ivalendianatii, 3.	2017	Title: Algorithm
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Additive manufacturing of rib-web structures with machine- parning-based adaptive void filling inish turning of Ti-6Al-4V with the atomization-based autting fluid (ACF) spray system A Trust-Based Team Formation Framework for Mobile A Trust-Based	Transportation Use Case	O'Shea, Donna; McCarthy, Conor; Guizani, Mohsen	2021	Title: blockchain
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Nath, Chandra; Kapoor, Shiv G.; Srivastava, Anil K.  2017 Title: fluid  A Trust-Based Team Formation Framework for Mobile Intelligence in Smart Factories Opmenico; Sarne, Giuseppe M. L.; Savaglio, Claudio Domenico; Sarne, Giuseppe M. L.; Savaglio, Stahep Domenico;	learning-based adaptive void filling		2020	Title: additive
Abstract: AGV  Abstra	Finish turning of Ti-6Al-4V with the atomization-based	Nath Chandra: Kanoor Shiy G : Sriyastaya Anil K		
Domenico; Sarne, Giuseppe M. L.; Savaglio, Claudio  Maintenance in digitalised manufacturing: Delphi-based cenarios for 2030  Manufacturing data analytics using a virtual factory epresentation  Microstructure-Informed Cloud Computing for Interoperability of Materials Databases and Computational Models: Microtextured Regions in Ti  Modeling of a production system using the multi-agent approach  Multisensory fusion based virtual tool wear sensing for Interoperability index prediction in in ironmaking process via soft computing techniques  Random Forest ensemble prediction of stent dimensions in Inicrofabrication processes  Inicrofabrication processes  Interoperability treated drills  Models: Microtextured Regions in Ti  Modeling of a production system using the multi-agent pipproach  Wang, Jinjiang; Xie, Junyao; Zhao, Rui; Zhang, Laibin; Duan, Lixiang  Tunckaya, Yasin  Maudes, Jesus; Bustillo, Andres; Guerra, Antonio J.; Ciurana, Joaquim  Naveena, B.; Thaslima, S. S. Mariyam; Savitha, V.; Krishna, B. Naveen; Raj, D. Samuel; Karunamoorthy, L.  Corne, Raphael; Nath, Chandra; El Mansori, Mohamed; Kurfess Thomas  Domenico; Sarne, Giuseppe M. L.; Savaglio, Claudio  Bokrantz, Jon; Skoogh, Anders; Berlin, Cecilia; Stahre, Johan  2017  Abstract: No DAS for ML  Abstract: No DAS for ML  Abstract: Simulation  Abstract: Simulation  Abstract: Simulation  Wang, Jinjiang; Xie, Junyao; Zhao, Rui; Zhang, Laibin; Duan, Lixiang  2017  Abstract: Simulation  Abstract: Simulation  Abstract: Simulation  Title: Algorithm  Tunckaya, Yasin  Tunckaya, Yasin  Tunckaya, Yasin  Tunckaya, Yasin  Audes, Jesus; Bustillo, Andres; Guerra, Antonio J.; Ciurana, Joaquim  Naveena, B.; Thaslima, S. S. Mariyam; Savitha, V.; Krishna, B. Naveen; Raj, D. Samuel; Karunamoorthy, L.  Corne, Raphael; Nath, Chandra; El Mansori, Mohamed; Kurfess Thomas	cutting fluid (ACF) spray system	Natil, Chandra, Kapool, Shiv G., Shivastava, Ahii K.	2017	Title: fluid
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Study of spindle power data with neural network for corne, Raphael; Nath, Chandra; El Mansori, Mohamed; Nurfess Thomas	Simplified MQL system for drilling AISI 304 SS using	Naveena, B.; Thaslima, S. S. Mariyam; Savitha, V.;		
oredicting real-time tool wear/breakage during inconel	cryogenically treated drills	Krishna, B. Naveen; Raj, D. Samuel; Karunamoorthy, L.	2017	Title: Process
oredicting real-time tool wear/breakage during inconel	Study of spindle power data with neural network for	Corne Ranhael: Nath Chandra: El Mansori Mohamod		
drilling 2017 Title: Process	predicting real-time tool wear/breakage during inconel			
	drilling	Nulless, Illumas	2017	Title: Process

Torque based defect detection and weld quality modelling in	Dec Birds Bel Colds are as Bee Courses		
friction stir welding process	Das, Bipul; Pal, Sukhomay; Bag, Swarup	2017	Title: Process
Toward a Generalized Energy Prediction Model for Machine	Bhinge, Raunak; Park, Jinkyoo; Law, Kincho H.;		
Tools	Dornfeld, David A.; Helu, Moneer; Rachuri, Sudarsan	2017	Title: energy
Integrated Tool Condition Monitoring Systems and Their	Noth Chandra		
Applications: A Comprehensive Review	Nath, Chandra	2020	Title: review
Using graph-based design languages to enhance the creation	Kiesel, Markus; Klimant, Philipp; Beisheim, Nicolai;		
of virtual commissioning models	Rudolph, Stephan; Putz, Matthias	2017	Title: Process
Wear Prediction of Woodworking Cutting Tools based on History Data	Lenz, Juergen; Westkaemper, Engelbert	2017	Title: Process
In-situ droplet inspection and closed-loop control system using machine learning for liquid metal jet printing	Wang, Tianjiao; Kwok, Tsz-Ho; Zhou, Chi; Vader, Scott	2018	Title: Process
Digital design and manufacturing on the cloud: A review of software and services	Wu, Dazhong; Terpenny, Janis; Schaefer, Dirk	2017	Title: review
A Data Processing Pipeline for Prediction of Milling Machine Tool Condition from Raw Sensor Data	Ferguson, M.; Bhinge, R.; Park, J.; Lee, Y. T.; Law, K. H.	2018	Abstract: No DAS for ML
A machine learning approach to detect changes in gait	Baghdadi, Amir; Megahed, Fadel M.; Esfahani, Ehsan		
parameters following a fatiguing occupational task	T.; Cavuoto, Lora A.	2018	Title: Process
A Minimal-Sensing Framework for Monitoring Multistage			
Manufacturing Processes Using Product Quality	Ardakani, Hossein Davari; Lee, Jay		
Measurements		2018	Title: Process
A novel approach for data-driven process and condition	Kisskalt, Dominik; Fleischmann, Hans; Kreitlein, Sven;		
monitoring systems on the example of mill-turn centers	Knott, Manuel; Franke, Joerg	2018	Title: Process
Operator 4.0 or Maker 1.0? Exploring the implications of	Taylor, Mark P.; Boxall, Peter; Chen, John J. J.; Xu, Xun;		
Industrie 4.0 for innovation, safety and quality of work in	Liew, Angela; Adeniji, Adebayo		
small economies and enterprises	Liew, Aligeia, Adelliji, Adebayo	2020	Title: safety
An adaptive self-learning compensation approach for	Mayr, Josef; Blaser, Philip; Ryser, Adrian; Hernandez-		
thermal errors on 5-axis machine tools handling an arbitrary	Becerro, Pablo		
set of sample rates	becerro, i abio	2018	Title: Process
Predictive modeling of material removal rate in chemical			
mechanical planarization with physics-informed machine	Yu, Tianyu; Li, Zhixiong; Wu, Dazhong		
learning		2019	Title: chemical

Application of Cause-Effect-Networks for the process	Rippel, Daniel; Schattmann, Christine; Jahn, Mischa;		
planning in laser rod end melting	Luetjen, Michael; Schmidt, Alfred	2018	Title: Process
Deep Convolutional Neural Networks as a Rapid Screening	Garland, Anthony P.; White, Benjamin C.; Jared,		
Tool for Complex Additively Manufactured Structures	Bradley H.; Heiden, Michael; Donahue, Emily; Boyce,	2020	Title: additive
Assessing near-dry lubrication (35 ml/h) performance in	Panday, Goutam; Ashraf, Md. Zurais Ibne; Ibn Muneer,		
hard turning process of hardened (48 HRC) AISI 1060 carbon	Khalid; Hossain, Khandaker Shamail; Ashik, Md. Fardian		
steel	Kabir; Kamruzzaman, M.	2018	Title: Process
An explainable artificial intelligence approach for	Prito Lucas C. Susta Cian Antonio, Prito Jorga N.		
unsupervised fault detection and diagnosis in rotating	Brito, Lucas C.; Susto, Gian Antonio; Brito, Jorge N.;		
machinery	Duarte, Marcus A., V	2022	Abstract: Algorithm
Big data analytics for operations management in engineer-	Kozjek, Dominik; Vrabic, Rok; Rihtarsic, Borut; Butala,		
to -order manufacturing	Peter	2018	Abstract: Survey
Cloud-Based Parallel Machine Learning for Tool Wear	Wu, Dazhong; Jennings, Connor; Terpenny, Janis;		
Prediction	Kumara, Soundar; Gao, Robert X.	2018	Abstract: Algorithm
Cluster Analysis for Enhancing Process Quality in Jobshop	Fels, Antonia; Ellerich, Max; Schmitt, Robert		
Production		2018	Abstract: Algorithm
Porosity segmentation in X-ray computed tomography scans	Coloret Christian Kodall Andella Ciatina Investor		
of metal additively manufactured specimens with machine	Gobert, Christian; Kudzal, Andelle; Sietins, Jennifer;		
learning	Mock, Clara; Sun, Jessica; McWilliams, Brandon	2020	Title: additive
A hybrid deep learning model of process-build interactions	Vardi Dara Majahada Imani Tarhada Vana Ilisi		
in additive manufacturing	Yazdi, Reza Mojahed; Imani, Farhad; Yang, Hui	2020	Title: additive
Cluster identification of sensor data for predictive	Uhlmann, Eckart; Pontes, Rodrigo Pastl; Geisert,		
maintenance in a Selective Laser Melting machine tool	Claudio; Hohwieler, Eckhard	2018	Title: Process
A systematic development method for cyber-physical	Liu Chan Vangavil Hrighikash Thang Day V. V. Vun		
machine tools	Liu, Chao; Vengayil, Hrishikesh; Zhong, Ray Y.; Xu, Xun	2018	Included in investigation
An intelligent decision support system for production	Gonzalez Rodriguez, German; Gonzalez-Cava, Jose M.;		
planning based on machine learning	Mendez Perez, Juan Albino	2020	Included in investigation
Conceptual Design of a Digital Shadow for the Procurement	Dausa Danial Plum Matthias		
of Stocked Products	Pause, Daniel; Blum, Matthias	2018	Title: No relation to ML
Cubor Physical Manufacturing Matrology Model	Majstorovic, Vidosav; Stojadinovic, Slavenko;		
Cyber-Physical Manufacturing Metrology Model	Jakovljevic, Zivana; Zivkovic, Srdjan; Djurdjanovic,		
(CPM <sup>3</sup> ) - Big Data Analytics Issue	Dragan; Kostic, Julija; Gligorijevic, Nemanja	2018	Title: Process

application of automated logistics in container port  Dynamization of Value Stream Management by technical and managerial approach	Spiros; Korfiatis, Nikolaos  Lugert, Andreas; Voelker, Kevin; Winkler, Herwig	2022	Title: sustainab  Title: No relation to ML
Towards AI driven environmental sustainability: an	Tsolakis, Naoum; Zissis, Dimitris; Papaefthimiou,	2022	<del></del>
company	Fatima Ezahra	2023	Title: chemical
A Big Data Analytics-driven Lean Six Sigma framework for enhanced green performance: a case study of chemical	Belhadi, Amine; Kamble, Sachin S.; Gunasekaran, Angappa; Zkik, Karim; Kumar, Dileep M.; Touriki,		
Durability analysis of forging tools after different variants of surface treatment using a decision-support system based on artificial neural networks	Mrzyglod, Barbara; Hawryluk, Marek; Gronostajski, Zbigniew; Opalinski, Andrzej; Kaszuba, Marcin; Polak, Slawomir; Widomski, Pawel; Ziemba, Jacek; Zwierzchowski, Maciej	2018	Title: Process
Fatigue-life prediction of additively manufactured metals by continuous damage mechanics (CDM)-informed machine learning with sensitive features	Wang, Haijie; Li, Bo; Xuan, Fu-Zhen	2022	Title: additive
A STEP-NC compliant robotic machining platform for advanced manufacturing	Toquica, Juan S.; Zivanovic, Sasa; Alvares, Alberto J.; Bonnard, Renan	2018	Title: robot
Disruptive data visualization towards zero-defects diagnostics	Ferreira, Luis; Putnik, Goran D.; Lopes, Nuno; Garcia, Wiley; Cruz-Cunha, Maria M.; Castro, Helio; Varela, Maria L. R.; Moura, Joao M.; Shah, Vaibhav; Alves, Catia; Putnik, Zlata	2018	Title: Process
Systematic Literature Review of Industry 4.0 Maturity Model for Manufacturing and Logistics Sectors	Hendro	2020	Title: review
Digitalization of the power business: How to make this work?	Svendsen, A. B.; Tollefsen, T.; Gjengedal, T.; Goodwin, M.; Antonsen, S.	2018	Title: Process
Big data analytics energy-saving strategies for air compressors in the semiconductor industry - an empirical study	Chang, Kuo-Hao; Sun, Yi-Jyun; Lai, Chi-An; Chen, Li-Der; Wang, Chih-Hung; Chen, Chung-Jung; Lin, Chih-Ming	2022	Title: empirical
Development of Six Sigma methodology to improve grinding processes A change management approach	Noori, Behrooz; Latifi, Mana	2018	Title: No relation to ML
Framework for Identifying Cybersecurity Risks in Manufacturing	Hutchins, Margot J.; Bhinge, Raunak; Micali, Maxwell K.; Robinson, Stefanie L.; Sutherland, John W.; Dornfeld, David	2015	Title: secur*

EDM Drilling optimisation using stochastic techniques	Maradia, Umang; Benavoli, Alessio; Boccadoro, Marco; Bonesana, Claudio; Kliuev, Mikhail; Zaffalon, Marco;	2019	Title: Dreeses
Experimental study of oil particle emission rate and size distribution during milling	Gambardella, Luca; Wegener, Konrad Wang, Fei; Li, Zhenhai; Wang, Peng; Zhang, Ruiyan	2018	Title: Process  Title: Process
Application of audible sound signals for tool wear monitoring using machine learning techniques in end milling	Kothuru, Achyuth; Nooka, Sai Prasad; Liu, Rui	2018	Abstract: Algorithm
High-Performance Computing Based Big Data Analytics for Smart Manufacturing	Yang, Yuhang; Cai, Y. Dora; Lu, Qiyue; Zhang, Yifang; Koric, Seid; Shao, Chenhui	2018	Abstract: 3D
Machine learning in cutting processes as enabler for smart sustainable manufacturing	du Preez, Anli; Oosthuizen, Gert Adriaan	2019	Title: sustainab
An implementation model for digitisation of visual management to develop a smart manufacturing process	Trubetskaya, Anna; Ryan, Alan; Murphy, Frank	2023	Abstract: Digital Twin
Intelligent CAD/CAM system for programming of CNC machine tools	Klancnik, S.; Brezocnik, M.; Balic, J.	2016	Title: CAD
Intelligent additive manufacturing and design state of the art and future perspectives	Xiong, Yi; Tang, Yunlong; Zhou, Qi; Ma, Yongsheng; Rosen, David W.	2022	Title: additive
A comprehensive review on the grinding process: Advancements, applications and challenges	Kishore, Kamal; Sinha, Manoj K.; Singh, Amarjit; Archana; Gupta, Munish K.; Korkmaz, Mehmet Erdi	2022	Title: review
Exploring relationships between Lean 4.0 and manufacturing industry	Javaid, Mohd; Haleem, Abid; Singh, Ravi Pratap; Rab, Shanay; Suman, Rajiv; Khan, Shahbaz	2022	Title: lean
Human-System Cooperative Hybrid Augmented Intelligence Based Dynamic Dispatching Framework of Semiconductor Wafer Fabrication Facility	Li, Li; Cui, Meiji	2018	Title: Process
Identifying the business and social networks in the domain of production by merging the data from heterogeneous internet sources	Kozjek, Dominik; Vrabic, Rok; Erzen, Gregor; Butala, Peter	2018	Title: Process
Self-Adaptive Traffic Control Model With Behavior Trees and Reinforcement Learning for AGV in Industry 4.0	Hu, Hao; Jia, Xiaoliang; Liu, Kuo; Sun, Bingyang	2021	Title: AGV
Matching functions of supply chain management with smart and sustainable Tools: A novel hybrid BWM-QFD based method	Gunduz, Mehmet Akif; Demir, Sercan; Paksoy, Turan	2021	Title: supply chain

An intelligent recommender system for tool selection in	Muhammed, Bilal; Srimannarayana, P.; Das, Prasenjit;		
conventional machining	Gautham, B. P.	2023	Abstract: Algorithm
Intelligent Weld Manufacturing: Role of Integrated Computational Welding Engineering	David, S. A.; Chen, Jian; Gibson, Brian T.; Feng, Zhili	2018	Title: Process
Machine learning algorithms in production: A guideline for	Stanula, Patrick; Ziegenbein, Amina; Metternich, Joachim	2018	Title: Process
efficient data source selection		2018	Title: Process
Machine Learning and Big Data in optical CD metrology for process control	Bringoltz, Barak; Rothstein, Eitan; Rubinovich, Ilya; Kim, YongHa; Tal, Noam; Cohen, Oded; Yogev, Shay; Broitman, Ariel; Rabinovich, Eylon; Zaharoni, Tal	2018	Title: Process
Machine learning methods for short-term bid forecasting in the renewable energy market: A case study in Italy	Cocchi, Guido; Galli, Leonardo; Galvan, Giulio; Sciandrone, Marco; Cantu, Matteo; Tomaselli, Giuseppe	2018	Title: energy
An Intelligent Maintenance Planning Framework Prototype for Production Systems	Kranzer, Simon; Prill, Dorian; Aghajanpour, Davood; Merz, Robert; Strasser, Rafaela; Mayr, Reinhard; Zoerrer, Helmut; Plasch, Matthias; Steringer, Robert	2017	Included in investigation
Maintenance Management of Mining Belt Conveyor System Based on Data Fusion and Advanced Analytics	Stefaniak, Pawel; Wodecki, Jacek; Zimroz, Radoslaw	2018	Title: Process
Cybersecurity Challenges for Manufacturing Systems 4.0:	Corallo, Angelo; Lazoi, Mariangela; Lezzi, Marianna;		
Assessment of the Business Impact Level	Pontrandolfo, Pierpaolo	2023	Title: secur
Meta-Model Based on Artificial Neural Networks for Tooth Root Stress Analysis of Micro-Gears	Haefner, Benjamin; Biehler, Michael; Wagner, Raphael; Lanza, Gisela	2018	Title: Process
Modelling of a post-combustion CO <sub>2</sub> capture process using deep belief network	Li, Fei; Zhang, Jie; Shang, Chao; Huang, Dexian; Oko, Eni; Wang, Meihong	2018	Title: Process
Data-driven characterization of thermal models for powder- bed-fusion additive manufacturing	Yan, Wentao; Lu, Yan; Jones, Kevontrez; Yang, Zhuo; Fox, Jason; Witherell, Paul; Wagner, Gregory; Liu, Wing Kam	2020	Title: additive
Multi-Sensor Data Analytics for Grinding Wheel Redress Life	Kannan, Kalpana; Arunachalam, N.; Chawla, Aakash;		
Estimation- An Approach towards Industry 4.0	Natarajan, Sundararajan	2018	Title: Process
Automatic root cause analysis in manufacturing: an overview & conceptualization	Eduardo e Oliveira; Migueis, Vera L.; Borges, Jose L.	2023	Abstract: Review
Non-linear Theory of Regenerative Chatter in Cutting Processes (I)	Shi, Hanmin	2018	Title: Process

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On DSS Implementation in the Dynamic Model of the Digital	Korovin, lakov S.; Khisamutdinov, Maksim V.; Kalyaev,	2212	
Oil field	Anatoly I.	2018	Title: Process
Online lead time prediction supporting situation-aware	Gyulai, David; Pfeiffer, Andras; Bergmann, Julia;		
production control	Gallina, Viola	2018	Title: Process
A computational fluid dynamics based artificial neural	Pandya, D. A.; Dennis, B. H.; Russell, R. D.		
network model to predict solid particle erosion	randya, D. A., Dennis, B. H., Russell, R. D.	2017	Title: fluid
Online Tool Wear Classification during Dry Machining Using	Terrazas, German; Martinez-Arellano, Giovanna;		
Real Time Cutting Force Measurements and a CNN	Benardos, Panorios; Ratchev, Svetan	2018	Title: Algorithm
Automated Tradeoff Analysis of Cost Versus Machinability	Crien Alex T. Coursehall Matthews		
for Design Feedback	Grier, Alan T.; Campbell, Matthew I.	2020	Abstract: CAD
Optimisation of manufacturing process parameters using	Pfrommer, Julius; Zimmerling, Clemens; Liu, Jinzhao;		
deep neural networks as surrogate models	Kaerger, Luise; Henning, Frank; Beyerer, Juergen	2018	Title: Algorithm
Performance Measurement of Building Sheet-Metal			
Ductwork Prefabrication under Batch Production Settings	Said, Hisham M.; Kandimalla, Prathyaj	2018	Title: Process
Predictive Maintenance of Machine Tool Linear Axes: A Case			
from Manufacturing Industry	Schmidt, Bernard; Wang, Lihui	2018	Abstract: Process
Communication of Design Data in Manufacturing			
Democratization	Ghorpade, Bhairavsingh; Raman, Shivakumar	2023	Abstract: CAD
Smart Sampling Methodology for Yield Defect Inspection in	Huat, Ang Kian; Yap, Jonathan; Ning, Ning; Fen, Tan		
a 200mm Foundry Wafer Fab	Siew; Mani, Shakar Govindasamy; Terredano, Myla	2018	Title: Process
Use of chemical oxidizers with alumina slurry in Double Disk			
Magnetic Abrasive Finishing for improving surface finish of Si	Pandey, Kheelraj; Pandey, Pulak M.		
(100)		2018	Title: chemical
	Yazdinejad, Abbas; Dehghantanha, Ali; Parizi, Reza M.;		
Block Hunter: Federated Learning for Cyber Threat Hunting	Hammoudeh, Mohammad; Karimipour, Hadis;		
in Blockchain-Based IIoT Networks	Srivastava, Gautam	2022	Title: blockchain
Computational modular system configuration with			
backward compatibility	Yoo, John Jung-Woon	2023	Abstract: Process
Big data and stream processing platforms for Industry 4.0			
requirements mapping for a predictive maintenance use	Sahal, Radhya; Breslin, John G.; Ali, Muhammad Intizar	2020	Abstract: Review
Impedance controlled human-robot collaborative tooling for	Kana, Sreekanth; Lakshminarayanan, Srinivasan;		
edge chamfering and polishing applications	Mohan, Dhanya Menoth; Campolo, Domenico	2021	Title: robot
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Towards the Generation of Setup Matrices from Route	Schroeter, Moritz; Luetkehoff, Ben; Fischer, Markus;		
Sheets and Feedback Data with Data Analytics	Blum, Matthias; Stich, Volker	2018	Title: Process
Using artificial intelligence models for the prediction of	Bustillo, A.; Pimenov, D. Yu; Matuszewski, M.;		
surface wear based on surface isotropy levels	Mikolajczyk, T.	2018	Title: Process
A case study of SOS-SVR model for PCB throughput	Li Dahiga Wang Liting Huang Qingvian		
estimation in SMT production lines	Li, Debiao; Wang, Liting; Huang, Qingxian	2019	Title: Process
Concept and development of IoT-based e-maintenance	Sawangsri, Worapong; Prasithmett, Peerapol		
platform for demonstrated system	Sawangsh, worapong, Prasitimett, Peerapor	2023	Full text: Process
Federated learning-based collaborative manufacturing for	Deng, Tianchi; Li, Yingguang; Liu, Xu; Wang, Lihui		
complex parts	Delig, Halicili, Li, Hiliggualig, Liu, Xu, Walig, Liliul	2023	Abstract: Process
A Deep Learning-based Approach to Anomaly Detection	Maggipinto, Marco; Beghi, Alessandro; Susto, Gian		
with 2-Dimensional Data in Manufacturing	Antonio	2019	Title: Process
Classification and regression models of audio and vibration	Han Soulki Mannan Nasir Stain Dand C. Battinati		
signals for machine state monitoring in precision machining	Han, Seulki; Mannan, Nasir; Stein, Daryl C.; Pattipati, Krishna R.; Bollas, George M.		
systems	Kristilla K., Bollas, George W.	2021	Abstract: Algorithm
Classification Framework for Machine Learning Support in	Ordek, Baris; Borgianni, Yuri; Coatanea, Eric		
Manufacturing	Ordek, Baris, Borgianni, Yuri, Coatanea, Eric	2022	Full text: Review
A Generalized Multisensor Real-Time Tool Condition-	Hassan, M.; Sadek, A.; Attia, M. H.		
Monitoring Approach Using Deep Recurrent Neural Network	Hassail, IVI., Sauck, A., Attia, IVI. II.	2019	Title: Algorithm
A neural network approach for chatter prediction in turning	Cherukuri, Harish; Perez-Bernabeu, E.; Selles, M. A.;		
A neural network approach for chatter prediction in turning	Schmitz, Tony L.	2019	Title: Process
A novel method for tool condition monitoring based on long			
short-term memory and hidden Markov model hybrid	Tao, Zhengrui; An, Qinglong; Liu, Gongyu; Chen, Ming		
framework in high-speed milling Ti-6Al-4V		2019	Title: Algorithm
A Prediction Method of Five-Axis Machine Tool Energy	Chen, Tao; Shang, Hai; Bi, Qingzhen		
Consumption with GBRT Algorithm	Cherry 180, Shang, Har, Dr. Qingzhen	2019	Title: energy
A Semantic Workbench for Editing, Querying, Navigating and	Ferrer, Borja Ramis; Mohammed, Wael M.; Lastra, Jose		
Distributing Ontologies for Cognitive Manufacturing	L. Martinez; Strzelczak, Stanislaw	2019	Title: Process
A Sensor Reduced Machine Learning Approach for Condition	Sossenheimer, Johannes; Walther, Jessica;		
based Energy Monitoring for Machine Tools	Fleddermann, Jan; Abele, Eberhard	2019	Title: energy
A Standardized PMML Format for Representing	Ferguson, Max; Lee, Yung-Tsun Tina; Narayanan,		
Convolutional Neural Networks with Application to Defect	Anantha; Law, Kincho H.		
Detection	Andrena, Law, Mileno II.	2019	Title: Algorithm

Activity recognition in manual manufacturing: Detecting	Guenther, Lisa C.; Kaercher, Susann; Bauernhansl,		
screwing processes from sensor data	Thomas	2019	Title: Process
An intelligent monitoring system of grinding wheel wear			
based on two-stage feature selection and Long Short-Term	Guo, Weicheng; Li, Beizhi; Zhou, Qinzhi		
Memory network		2019	Title: Algorithm
Hybrid Modeling Approach for Melt-Pool Prediction in Laser	Moges, Tesfaye; Yang, Zhuo; Jones, Kevontrez; Feng,		
Powder Bed Fusion Additive Manufacturing	Shaw; Witherell, Paul; Lu, Yan	2021	Title: additive
Architecture Model for a Holistic and Interoperable Digital	Senna, Pedro P.; Almeida, Antonio H.; Barros, Ana C.;		
Energy Management Platform	Bessa, Ricardo J.; Azevedo, Americo L.	2020	Included in investigation
Application of Data Mining Tools in Shrink Sleeve Labels	Vruetocial Vraugatof		
Converting Process	Krystosiak, Krzysztof	2019	Title: Process
Assisted setup of forming processes: architecture for the	Graeler, Manuel; Wallow, Astrid; Henke, Christian;		
integration of non-adjustable disturbances	Traechtler, Ansgar	2019	Title: Process
Concurrent fixture design for automated manufacturing	Fu, Wentao; Campbell, Matthew I.		
process planning	ru, Wentao, Campben, Matthew I.	2015	Abstract: CAD
Contribution to the development of a Digital Twin based on	Schuetzer, Klaus; Bertazzi, Julia de Andrade; Sallati,		
product lifecycle to support the manufacturing process	Carolina; Anderl, Reiner; Zancul, Eduardo	2019	Title: digital twin
Base types selection of PSS based on a priori algorithm and	Zhang, Zaifang; Chai, Nana; Liu, Yuan; Xia, Beixin		
knowledge-based ANN	Zildilg, Zdildilg, Cildi, Ndild, Liu, Yudii, Ald, Belxiii	2019	Title: Algorithm
Determination of pressure drops in flowing geothermal	Bassam, A.; Alvarez del Castillo, A.; Garcia-Valladares,		
wells by using artificial neural networks and wellbore	O.; Santoyo, E.		
simulation tools	O., Santoyo, E.	2015	Title: simulation
When Federated Learning Meets Game Theory: A	Houda, Zakaria Abou El; Brik, Bouziane; Ksentini, Adlen;		
Cooperative Framework to Secure IIoT Applications on Edge	Khoukhi, Lyes; Guizani, Mohsen		
Computing	Kiloukili, Lyes, Guizalli, Moliseli	2022	Title: secur
Tribology and machinability performance of hybrid	Jamil, Muhammad; He, Ning; Zhao, Wei; Khan, Aqib		
Al <sub>2</sub> O <sub>3</sub> -MWCNTs nanofluids-	Mashood; Laghari, Rashid Ali		
assisted MQL for milling Ti-6Al-4 V	iviasiloou, Lagilali, Kasiliu Ali	2022	Title: fluid
Monitoring and Predicting the Surface Generation and	Maniunath K. Towary Suman, Khatri Noha, Chana		
Surface Roughness in Ultraprecision Machining: A Critical	Manjunath, K.; Tewary, Suman; Khatri, Neha; Cheng,		
Review	Kai	2021	Title: review

Integrated numerical modelling and deep learning for multi-	Ren, K.; Chew, Y.; Liu, N.; Zhang, Y. F.; Fuh, J. Y. H.; Bi,		
layer cube deposition planning in laser aided additive manufacturing	G. J.	2021	Title: additive
How Do Manufacturing Firms Manage Artificial Intelligence to Drive Iterative Product Innovation?	Jiang, Xu; Jiang, Xiaoxian; Sun, Wei; Fan, Weiguo	2023	Abstract: No DAS for ML
Using lean manufacturing and machine learning for improving medicines procurement and dispatching in a hospital	Jordon, Kaio; Dossou, Paul-Eric; Chang Junior, Joao	2019	Title: lean
Chatter Analysis and Stability Prediction of Milling Tool Based on Zero-Order and Envelope Methods for Real-Time Monitoring and Compensation	Chang, Wen-Yang; Chen, Chung-Cheng; Wu, Sheng-Jhih	2019	Title: Process
In-process quality improvement: Concepts, methodologies, and applications	Shi, Jianjun	2023	Abstract: Review
Computational Tool for the Intelligent Design of Gearboxes of Cylindrical Gears and Welded Housing	Franco, Rosendo; Blas, Michael A.; Inafuku, Luis H.; Peinado, Angel A. C.; Soto, Jean C.; Solano, Alberto E.; Fernandez, Daniel H.; Lopez, Alexander R.; Montalvan, Jose F.; Yepez, Herbert; Valverde, Quino	2019	Title: Process
Integration of discrete-event dynamics and machining dynamics for machine tool: modeling, analysis and algorithms	Ma, Mason; Ren, Alisa; Tyler, Christopher; Karandikar, Jaydeep; Gomez, Michael; Shi, Tony; Schmitz, Tony	2023	Abstract: Process
Human work sustainability tool	Ciccarelli, Marianna; Papetti, Alessandra; Germani, Michele; Leone, Alessandro; Rescio, Gabriele	2022	Title: sustainab
Interoperable System for Automated Extraction and Identification of Machine Control Data in Brownfield Production	Goennheimer, Philipp; Stroebel, Robin; Doerflinger, Roman; Mattes, Marcel; Fleischera, Jurgen	2023	Abstract: Algorithm
A perturbation signal based data-driven Gaussian process regression model for in-process part quality prediction in robotic countersinking operations	Leco, Mateo; Kadirkamanathan, Visakan	2021	Title: robot
Learning with supervised data for anomaly detection in smart manufacturing	He, Meiling; Petering, Matthew; LaCasse, Phillip; Otieno, Wilkistar; Maturana, Francisco	2023	Abstract: Review
A Framework of Dynamic Data Driven Digital Twin for Complex Engineering Products: the Example of Aircraft Engine Health Management	Wu, Zhenhua; Li, Jianzhi	2021	Title: digital twin

Data-driven smart manufacturing: Tool wear monitoring	Li, Zhixiong; Liu, Rui; Wu, Dazhong		
with audio signals and machine learning	21, 211, 1101, 110, 110, 2021, 210	2019	Title: Process
Dimension reduction and 2D-visualization for early change	Proteau, Antoine; Zemouri, Ryad; Tahan, Antoine;		
of state detection in a machining process with a variational	Thomas, Marc		
autoencoder approach	momas, ware	2020	Title: 2D
Data Visualization of Anomaly Detection in Semiconductor	Fan, Shu-Kai S.; Tsai, Du-Ming; Jen, Chih-Hung; Hsu,		
Processing Tools	Chia-Yu; He, Fei; Juan, Li-Ting	2022	Abstract: Algorithm
Machine Learning for Machine Tools	Sinkora, Ed	2023	Abstract: Review
Intelligent process planning for smart manufacturing	Besharati-Foumani, Hossein; Lohtander, Mika; Varis,		
systems: a state-of-the-art review	Juha	2019	Title: review
A road map for applied data sciences supporting			
sustainability in advanced manufacturing: the information	Kenett, Ron S.; Zonnenshain, Avigdor; Fortuna, Gilead		
quality dimensions		2018	Title: sustainab
Machine-learning based process monitoring for automated	Mujtaba, Ahmed; Islam, Faisal; Kaeding, Patrick;		
composites manufacturing	Lindemann, Thomas; Prusty, B. Gangadhara	2023	Abstract: Process
Development of soft computing tools and IoT for improving	Packianathor Michael C. Munizaga Nury Loon.		
the performance assessment of analysers in a clinical	Packianather, Michael S.; Munizaga, Nury Leon;		
laboratory	Zouwail, Soha; Saunders, Mark	2019	Title: No manufacturing
Design Considerations for Building Distributed Supply Chain	Dadka Androas M. Tsang Mitaball M		
Management Systems Based on Cloud Computing	Radke, Andreas M.; Tseng, Mitchell M.	2015	Title: supply chain
Digital technologies and green human resource	Trujillo-Gallego, Mariana; Sarache, William; Jabbour,		
management: Capabilities for GSCM adoption and enhanced	Ana Beatriz Lopes de Sousa		
performance	Ana Beatriz Lopes de Sousa	2022	Title: green
Next generation DES simulation: A research agenda for	Turner, Chris J.; Garn, Wolfgang		
human centric manufacturing systems	rumer, clins J., Garn, Wongang	2022	Title: simulation
Digitalized automated welding systems for weld quality	Gyasi, Emmanuel Afrane; Kah, Paul; Penttila, Sakari;		
predictions and reliability	Ratava, Juho; Handroos, Heikki; Sanbao, Lin	2019	Title: Process
Electrostatic high-velocity solid lubricant machining system	Gunda, Rakesh Kumar; Narala, Suresh Kumar Reddy		
for performance improvement of turning Ti-6Al-4V alloy	Juliua, Nakesii Kuillai, Ivalala, Sulesii Kuillai Reduy	2019	Title: Process
Energy efficiency analysis modelling system for	Adenuga, Olukorede Tijani; Mpofu, Khumbulani;		
manufacturing in the context of industry 4.0	Boitumelo, Ramatsetse Innocent	2019	Title: energy
The prediction method of tool life on small lot turning	Bazaz, Sara Moghadaszadeh; Lohtander, Mika; Varis,		
process - Development of Digital Twin for production	Juha	2020	Title: digital twin

Optimal machine learning for detecting lathe machining	Pall Kovan Laker David Nikhara Chatan D		
parameters	Rall, Keven; Loker, David; Nikhare, Chetan P.	2023	Abstract: Process
Fuzzy modeling of dependability optimization for supporting			
the production-quality strategies - case study in technical	Vilcu, A.; Verzea, I.; Pislaruand, M.; Herghiligiu, I.		
field		2019	Title: Process
Deep learning for smart manufacturing: Methods and	Wang, Jinjiang; Ma, Yulin; Zhang, Laibin; Gao, Robert		
applications	X.; Wu, Dazhong	2018	Abstract: Survey
Hybrid Approach Using Ontology-Supported Case-Based	li Danasius Amari Fashad Chai Lughuulu Cha Huugha		
Reasoning and Machine Learning for Defect Rate Prediction	Ji, Bongjun; Ameri, Farhad; Choi, Junhyuk; Cho, Hyunbo	2019	Title: Process
Innovative Solutions of the Automated Guided Vehicles in	Bizubac, Dan; Hormann, Bernd Otto; Popa, Marcel		
Industrial Manufacturing	Sabin	2019	Title: AGV
deepKnit: Learning-based Generation of Machine Knitting	Scheidt, Fabian; Ou, Jifei; Ishii, Hiroshi; Meisen, Tobias		
Code	Scheidt, Fabian, Ou, Jilei, Ishii, Hiloshi, Meisen, Tobias	2020	Abstract: Algorithm
Physics-guided neural operator for data-driven composites	Chen, Gengxiang; Li, Yingguang; Liu, Xu; Mehdi-		
manufacturing process modelling	Souzani, Charyar; Meng, Qinglu; Zhou, Jing; Hao,	2023	Abstract: Algorithm
Predictive models in digital manufacturing: research,	Kusiak, Andrew		
applications, and future outlook	Rusiak, Allulew	2023	Abstract: Review
Interaction in Project Management Approach Within	Cakmakci, Mehmet		
Industry 4.0	Carmarci, Memmet	2019	Title: No relation to ML
A generalizable artificial intelligence tool for identification	Johnson, Marshall, V; Garanger, Kevin; Hardin, James		
and correction of self-supporting structures in additive	O.; Berrigan, J. Daniel; Feron, Eric; Kalidindi, Surya R.		
manufacturing processes	O., Berrigan, J. Damer, Feron, Enc, Kandindi, Surya K.	2021	Title: additive
The application of machine learning to sensor signals for	Moore, James; Stammers, Jon; Dominguez-Caballero,		
machine tool and process health assessment	Javier	2021	Title: health
Linking data science to lean production: a model to support	Pozzi, Rossella; Cannas, Violetta Giada; Ciano, Maria		
lean practices	Pia	2022	Title: lean
Towards manufacturing robotics accuracy degradation	Izagirre, Unai; Andonegui, Imanol; Eciolaza, Luka;		
assessment: A vision-based data-driven implementation	Zurutuza, Urko	2021	Title: robot
Process control combining machine learning and fingerprint	Garnier, A.; Cecchinel, C.; Beudaert, X.		
approaches	darmer, A., Gecenner, C., Deddaert, A.	2023	No access
Machine learning classification for tool life modeling using	Karandikar, Jaydeep		
production shop-floor tool wear data	narananar, Jayacep	2019	Title: Process

Comparative performance studies of turning 4140 steel with TiC/TiCN/TiN-coated carbide inserts using MQL, flooding	Revuru, Rukmini Srikant; Znang, Julie Zne; Posinasetti,		
with vegetable cutting fluids, and dry machining	Nageswara Rao	2020	Title: fluid
Prognostic Health Management of Production Systems. New	Calabrese, Francesca; Regattieri, Alberto; Botti, Lucia;		
Proposed Approach and Experimental Evidences	Galizia, Francesco Gabriele	2019	Title: health
Realising the promises of artificial intelligence in manufacturing by enhancing CRISP-DM	Bokrantz, Jon; Subramaniyan, Mukund; Skoogh, Anders	2023	Abstract: Concept
Machine learning for multi-criteria inventory classification	Lolli, F.; Balugani, E.; Ishizaka, A.; Gamberini, R.; Rimini,		
applied to intermittent demand	B.; Regattieri, A.	2019	Title: Process
Symbolic Artificial Intelligence Methods for Prescriptive Analytics	Friedrich, Gerhard; Gebser, Martin; Teppan, Erich C.	2023	Abstract: Review
Machine Tools Anomaly Detection Through Nearly Real-	Herranz, Gorka; Antolinez, Alfonso; Escartin, Javier;		
Time Data Analysis	Arregi, Amaia; Kepa Gerrikagoitia, Jon	2019	Title: Process
The artificial intelligence technologies in Industry 4.0: A	Alenizi, Farhan A.; Abbasi, Shirin; Mohammed, Adil		
taxonomy, approaches, and future directions	Hussein; Rahmani, Amir Masoud	2023	Abstract: Review
Development capabilities for smart products	Tomiyama, Tetsuo; Lutters, Eric; Stark, Rainer; Abramovici, Michael	2019	Abstract: Survey
Using machine learning to predict dimensions and qualify diverse part designs across multiple additive machines and materials	McGregor, Davis J.; Bimrose, Miles, V; Shao, Chenhui; Tawfick, Sameh; King, William P.	2022	Title: additive
Managing Human Errors: Augmented Reality systems as a	Qeshmy, Danial Etemady; Makdisi, Jacob; Dener		
tool in the quality journey	Ribeiro da Silva, Elias Hans; Angelis, Jannis	2019	Title: No manufacturing
Manufacturing Analytics for problem-solving processes in	Meister, Maximilian; Bessle, Julia; Cviko, Amir; Boeing,		
production	Tobias; Metternich, Joachim	2019	Title: No relation to ML
The ASSISTANT project: AI for high level decisions in	Castane, G.; Dolgui, A.; Kousi, N.; Meyers, B.; Thevenin,		
manufacturing	S.; Vyhmeister, E.; Ostberg, P-O	2023	Full text: Concept
Multilayer CMP Hotspot Modeling Through Deep Learning	Francisco, Luis; Mao, Rui; Katakamsetty, Ushasree; Verma, Piyush; Pack, Robert	2019	Title: Algorithm
A scheduling method for multi-robot assembly of aircraft	Tereshchuk, Veniamin; Bykov, Nikolay; Pedigo, Samuel;		
structures with soft task precedence constraints	Devasia, Santosh; Banerjee, Ashis G.	2021	Title: robot
Multi-objective optimization of machining parameters to minimize surface roughness and power consumption using	Pawanr, Shailendra; Garg, Girish Kant; Routroy,		
TOPSIS	Srikanta	2019	Title: Algorithm

The benefits of predictive maintenance in manufacturing			
excellence: a case study to establish reliable methods for	Meddaoui, Anwar; Hain, Mustapha; Hachmoud, Adil		
predicting failures		2023	Abstract: Review
Optimization of Silicone 3D Printing with Hierarchical	Menon, Aditya; Poczos, Barnabas; Feinberg, Adam W.;		
Machine Learning	Washburn, Newell R.	2019	Title: Process
Systematic manufacturability evaluation using	Coatanea, Eric; Nagarajan, Hari P. N.; Panicker, Suraj;		
dimensionless metrics and singular value decomposition: a	Prod'hon, Romaric; Mokhtarian, Hossein; Chakraborti,		
case study for additive manufacturing	Ananda; Paris, Henri; Ituarte, Inigo Flores; Haapala, Karl		
case study for additive mandracturing	R.	2021	Title: additive
Autonomous Navigation of mobile robots in factory	Harapanahalli, Suman; Mahony, Niall O.; Hernandez,		
environment	Gustavo Velasco; Campbell, Sean; Riordan, Daniel;		
lenvironment	Walsh, Joseph	2019	Title: robot
Adaptive industrial robot using machine vision	Kuts, Vladimir; Otto, Tauno; Tahemaa, Toivo; Bukhari,		
	Khuldoon; Pataraia, Tengiz	2019	Title: robot
Petri net-based scheduling strategy and energy modeling for	Peng, Shitong; Li, Tao; Zhao, Jiali; Guo, Yanchun; Lv,		
the cylinder block remanufacturing under uncertainty	Shengping; Tan, George Z.; Zhang, Hongchao	2019	Title: energy
Fostering Robust Human-Robot Collaboration through Al	Cesta, Amedeo; Orlandini, Andrea; Umbrico,		
Task Planning	Alessandro	2018	Title: robot
3D roll forming center for automotive applications	SedImaier, Albert; Dietl, Thomas	2018	Title: 3D
Prediction of forming limit diagrams using machine learning	Chheda, Amar M.; Nazro, Louis; Sen, Fatih G.;		
rrediction of forming limit diagrams using machine learning	Hegadekatte, Vishwanath	2019	Title: Process
Tool wear classification in milling for varied cutting	Li, Kuan-Ming; Lin, Yi-Yen		
conditions: with emphasis on data pre-processing	Li, Rudii-iviilig, Liii, 11-1-tii	2023	Abstract: Algorithm
A recursive operations strategy model for managing	Choy, K. L.; Ho, G. T. S.; Lee, C. K. H.; Lam, H. Y.; Cheng,		
sustainable chemical product development and production	Stephen W. Y.; Siu, Paul K. Y.; Pang, G. K. H.; Tang,		
sustainable chemical product development and production	Valerie; Lee, Jason C. H.; Tsang, Y. P.	2016	Title: chemical
Uncertainty Quantification and Optimal Robust Design for	Wan, Jinming; Che, Yiming; Wang, Zimo; Cheng,		
Machining Operations	Changqing	2023	Abstract: Algorithm
A dimensionally augmented and physics-informed machine			
learning for quality prediction of additively manufactured	Wang, Haijie; Li, Bo; Xuan, Fu-Zhen		
high-entropy alloy		2022	Title: additive

Are Industry 4.0 technologies enablers of lean? Evidence from manufacturing industries	Narula, Sanjiv; Puppala, Harish; Kumar, Anil; Luthra, Sunil; Dwivedy, Maheshwar; Prakash, Surya; Talwar, Vishal	2023	Title: lean
Predictive model development and optimization of surface	Vignesh, M.; Sasindran, Visnu; Krishna, Arvind S.;		
roughness parameter in milling operations by means of	Madusudhanan, A.; Gokulachandran, J.	2019	Title: Algerithm
fuzzy logic and artificial neural network approach	Catalana Maria Chiuraa Alaasaadaa Fusta Catarina	2019	Title: Algorithm
A Digital Twin-Driven and Conceptual Framework for	Catalano, Mario; Chiurco, Alessandro; Fusto, Caterina;		
Enabling Extended Reality Applications: A Case Study of a	Gazzaneo, Lucia; Longo, Francesco; Mirabelli, Giovanni;	2022	
Brake Discs Manufacturer	Nicoletti, Letizia; Solina, Vittorio; Talarico, Simone	2022	Title: digital twin
Residual thermal stress prediction for continuous tool-paths	Thou Jevii Shen Hongvao IIII Ring Dii Wangzhe		
in wire-arc additive manufacturing: a three-level data-driven	Jin, Jiaao; Lin, Jiahao	2022	
method		2022	Title: additive
Inspiration of Industry 4.0 to Enable a Proactive	Valilai, Omid Fatahi; Sodachi, Majid		
Sustainability Assessment Model through the Supply Chain	,,,,	2020	Title: supply chain
Predictive modelling of surface roughness in fused	Wu, Dazhong; Wei, Yupeng; Terpenny, Janis		
deposition modelling using data fusion	vva, Bazilong, vvel, rapeng, respenny, sams	2019	Title: Process
Prioritizing Digitalization Use Cases during Early	Heimes, Heiner; Kampker, Achim; Buehrer, Ulrich;		
Development Phases of Large Scale Manufacturing Systems	Schroth, Paul; Krotil, Stefan	2019	Title: Process
Real-time quality monitoring and control system using an	Oh, YeongGwang; Busogi, Moise; Ransikarbum, Kasin;		
integrated cost effective support vector machine	Shin, Dongmin; Kwon, Daeil; Kim, Namhun	2019	Title: Algorithm
Energy simulation of the fused deposition modeling process	Yi, Li; Glaessner, Christopher; Krenkel, Nicole; Aurich,		
using machine learning approach	Jan C.	2019	Title: simulation
A Conceptual Framework for Cyber-Physical Quality	Charles Marthe At J. Bardda and Cattab Bab		
Monitoring System using Machine Learning	Chacko, Mathew; Atul; Boddapati, Satish Babu	2022	Abstract: Algorithm
Self-optimizing process planning for helical flute grinding	Denkena, B.; Dittrich, MA.; Boss, V.; Wichmann, M.; Friebe, S.	2019	Title: Process
			113.51 1 1 2 2 3 3
processes	Dittrich, Marc-Andre; Uhlich, Florian; Denkena, Berend	2019	Title: Process
A novel decision support system for managing predictive			
maintenance strategies based on machine learning	Arena, S.; Florian, E.; Zennaro, I; Orru, P. F.; Sgarbossa,		
approaches	F.	2022	Full text: Concept
Supply-Demand Prediction for Agile Manufacturing with	2		
Deep Neural Network	Wen, Rong; Yan, Wenjing	2019	Title: Algorithm

Deshpande, Aditya M.; Telikicherla, Anil Kumar; Jakkali,		
	2020	
	2020	Included in investigation
	2010	
	2019	Title: Process
Feryel; Sen, Okan Kamil	2019	Title: No relation to ML
Fan, Shiqi; Yang, Zaili		
	2023	Title: safety
Cutolo, Antonio; Lammens, Nicolas; Boer, Koen		
Vanden; Erdelyi, Hunor; Schulz, Matthias;		
Muralidharan, Gokula Krishna; Thijs, Lore;		
Elangeswaran, Chola; Van Hooreweder, Brecht	2023	Title: simulation
Doitormann Fordinand, Buddo Lukas, Friedli Thomas,		
Haenggi, Koman	2022	Full text: Concept
Eggink, Derk Hendrik Dominick; Groll, Marco Wilhelm;		
Perez-Ramirez, Daniel F.; Biedert, Johannes; Knoedler,		
Christoph; Papentin, Patrick	2019	Title: No relation to ML
Marana Inanal Cala Marana Ina		
Mugarza, Imanoi; Carios Mugarza, Juan	2019	Title: AGV
Balasubramanian, Anupama; Damm, Drew; Melhem,		
Sam; Dausman, Andrew C.; Levy, Joshua T. Linden; Bu,		
Yingqiong; Mao, Brian; Cauvel, Craig S.	2019	Title: No manufacturing
Taga Milahaal T		
rong, Michael I.	2019	Title: Process
Wegener, K.; Spierings, A. B.; Teti, R.; Caggiano, A.;		
Knuettel, D.; Staub, A.	2021	Title: bio
Wheelist Hanney Califort Could I Hanney Builtin		
knadırı, Hassan; Sekkat, Sounali; Herrou, Brahim	2022	Abstract: Process
Zhang, Y.; Beudaert, X.; Argandona, J.; Ratchev, S.;		
	Vinay; Wickelhaus, David A.; Kumar, Manish; Anand, Sam  Duo, Aitor; Basagoiti, Rosa; Arrazola, Pedro J.; Aperribay, Javier; Cuesta, Mikel  Heinrich, Harald; Deutschlaender, Arthur; Zoghlami, Feryel; Sen, Okan Kamil  Fan, Shiqi; Yang, Zaili  Cutolo, Antonio; Lammens, Nicolas; Boer, Koen Vanden; Erdelyi, Hunor; Schulz, Matthias; Muralidharan, Gokula Krishna; Thijs, Lore; Elangeswaran, Chola; Van Hooreweder, Brecht  Deitermann, Ferdinand; Budde, Lukas; Friedli, Thomas; Haenggi, Roman  Eggink, Derk Hendrik Dominick; Groll, Marco Wilhelm; Perez-Ramirez, Daniel F.; Biedert, Johannes; Knoedler, Christoph; Papentin, Patrick  Mugarza, Imanol; Carlos Mugarza, Juan  Balasubramanian, Anupama; Damm, Drew; Melhem, Sam; Dausman, Andrew C.; Levy, Joshua T. Linden; Bu, Yingqiong; Mao, Brian; Cauvel, Craig S.  Tong, Michael T.  Wegener, K.; Spierings, A. B.; Teti, R.; Caggiano, A.; Knuettel, D.; Staub, A.  Khadiri, Hassan; Sekkat, Souhail; Herrou, Brahim	Vinay; Wickelhaus, David A.; Kumar, Manish; Anand, Sam 2020  Duo, Aitor; Basagoiti, Rosa; Arrazola, Pedro J.; Aperribay, Javier; Cuesta, Mikel 2019  Heinrich, Harald; Deutschlaender, Arthur; Zoghlami, Feryel; Sen, Okan Kamil 2019  Fan, Shiqi; Yang, Zaili 2023  Cutolo, Antonio; Lammens, Nicolas; Boer, Koen Vanden; Erdelyi, Hunor; Schulz, Matthias; Muralidharan, Gokula Krishna; Thijs, Lore; Elangeswaran, Chola; Van Hooreweder, Brecht 2023  Deitermann, Ferdinand; Budde, Lukas; Friedli, Thomas; Haenggi, Roman 2022  Eggink, Derk Hendrik Dominick; Groll, Marco Wilhelm; Perez-Ramirez, Daniel F.; Biedert, Johannes; Knoedler, Christoph; Papentin, Patrick 2019  Mugarza, Imanol; Carlos Mugarza, Juan 2019  Balasubramanian, Anupama; Damm, Drew; Melhem, 3am; Dausman, Andrew C.; Levy, Joshua T. Linden; Bu, Yingqiong; Mao, Brian; Cauvel, Craig S. 2019  Tong, Michael T. 2019  Wegener, K.; Spierings, A. B.; Teti, R.; Caggiano, A.; Knuettel, D.; Staub, A. Khadiri, Hassan; Sekkat, Souhail; Herrou, Brahim 2022

Ensembled mechanical fault recognition system based on			
deep learning algorithm	Guo, Yuxiu; Liu, Yubin; Ding, Weiying; Feng, Yufen	2021	Abstract: Algorithm
A deep learning approach for the dynamic dispatching of	Wu, Cheng-Hung; Zhou, Fang-Yi; Tsai, Chi-Kang; Yu,		
unreliable machines in re-entrant production systems	Cheng-Juei; Dauzere-Peres, Stephane	2020	Title: Process
Application of progressive technologies based on	Ivana, Klackova; Tatyana, Ivanova; Ivan, Kuric;		
digitalization in mechanical engineering	Aleksandr, Korshunov; Vladimir, Koretckiy	2022	Abstract: No DAS for ML
A Novel Three-Layer IoT Architecture for Shared, Private,	Parto, Mahmoud; Saldana, Christopher; Kurfess,		
Scalable, and Real-time Machine Learning from Ubiquitous	Thomas		
Cyber-Physical Systems	Hioritas	2020	Title: Process
A decision support methodology for integrated machining	Hatim, Qais Y.; Saldana, Christopher; Shao, Guodong;		
process and operation plans for sustainability and	Kim, Duck Bong; Morris, K. C.; Withere, Paul; Rachuri,		
productivity assessment	Sudarsan; Kumara, Soundar	2020	Title: sustainab
A Novel Tool (Single-Flute) Condition Monitoring Method for	Yang, Yinfei; Hao, Bijun; Hao, Xiuqing; Li, Liang; Chen,		
End Milling Process Based on Intelligent Processing of	Ni; Xu, Tao; Aqib, Khan M.; He, Ning		
Milling Force Data by Machine Learning Algorithms	NI, Au, Tuo, Aqib, Kilait Wi., Tic, Willig	2020	Title: Process
Artificial General Intelligence vs. Industry 4.0: Do They Need	Kumpulainen, Samu; Terziyan, Vagan		
Each Other?	Kampalamen, Sama, Terziyan, Vagan	2022	Abstract: Review
Design and Development of an Edge-Computing Platform	Mourtzis, Dimitris; Angelopoulos, John; Panopoulos,		
Towards 5G Technology Adoption for Improving Equipment	Nikos		
Predictive Maintenance		2022	Full text: Not a DAS
Design and development of automobile assembly model	Manimuthu, Arunmozhi; Venkatesh, V. G.; Shi,		
using federated artificial intelligence with smart contract	Yangyan; Sreedharan, V. Raja; Koh, S. C. Lenny	2022	Full text: Not a DAS
An approach for designing a platform of smart welding	Febriani, Risky Ayu; Park, Hong-Seok; Lee, Chang-		
station system	Myung	2020	Title: Process
An artificial intelligence educational strategy for the digital	Cantu-Ortiz, Francisco J.; Galeano Sanchez, Nathalie;		
transformation	Garrido, Leonardo; Terashima-Marin, Hugo; Brena,		
tion of mucion	Ramon F.	2020	Title: No relation to ML
An evolvable model of machine tool behavior applied to	Komoto, Hitoshi; Herrera, German; Herwan, Jonny	2020	Title: Process
energy usage prediction		2020	Title: Process
An integrated approach for power transformer modeling and manufacturing	Lettner, Christian; Moser, Michael; Pichler, Josef	2020	Title: Process

The Resource Usage Viewpoint of Industrial Control System	Nair, Rahul; Nayak, Chinmohan; Watkins, Lanier; Fairbanks, Kevin D.; Memon, Kashif; Wang, Pengyuan;		
Security: An Inference-Based Intrusion Detection System	Robinson, William H.	2017	Title: secur
Application research on AGV case: automated electricity meter verification shop floor	Tu, Jia Chen; Qian, Xiao Ming; Lou, Pei Huang	2017	Title: AGV
Design for Artificial Intelligence: Proposing a Conceptual	Williams, Glen; Meisel, Nicholas A.; Simpson, Timothy		
Framework Grounded in Data Wrangling	W.; McComb, Christopher	2022	Full text: Not a DAS
Anomaly detection methods in turning based on motor data analysis	Watanabe, Tsubasa; Kono, Ippei; Onozuka, Hideaki	2020	Title: Process
Application of Data Analytics in Gas Turbine Engines	Taluru, DanteswaraRao; Allabanda, Rajendra Prasad Uppara	2020	Title: Process
Application of Machine Learning to the Prediction of Surface Roughness in Diamond Machining	Sizemore, Nicholas E.; Nogueira, Monica L.; Greis, Noel P.; Davies, Matthew A.	2020	Title: Process
Artificial intelligence aided design of film cooling scheme on turbine guide vane	Li, Dike; Qiu, Lu; Tao, Kaihang; Zhu, Jianqin	2020	Title: Process
Designing and developing smart production planning and control systems in the industry 4.0 era: a methodology and case study	Oluyisola, Olumide Emmanuel; Bhalla, Swapnil; Sgarbossa, Fabio; Strandhagen, Jan Ola	2022	Abstract: Process
Computational fluid dynamics and machine learning as tools for optimization of micromixers geometry	Maionchi, Daniela de Oliveira; Ainstein, Luca; dos Santos, Fabio Pereira; de Souza Junior, Mauricio Bezerra	2022	Title: fluid
Automated continuous learn and improvement process of	Can, Alperen; Fisch, Jessica; Stephan, Philipp; Thiele,		
energy efficiency in manufacturing	Gregor; Krueger, Joerg	2020	Title: energy
Evaluation of Al-Based Digital Assistants in Smart Manufacturing	Bousdekis, Alexandros; Mentzas, Gregoris; Apostolou, Dimitris; Wellsandt, Stefan	2022	Abstract: No DAS for ML
Bottleneck prediction and data-driven discrete-event simulation for a balanced manufacturing line	Rocha, Eugenio M.; Lopes, Maria J.	2022	Title: simulation
Background of the Revision of the Secondary School Engineering Curriculum in the Context of the Society 4.0	Malach, Josef; Vicherkova, Dana	2020	Title: No manufacturing
Collaborative knowledge management to identify data	Park, Hyunseop; Ko, Hyunwoong; Lee, Yung-tsun Tina;		
analytics opportunities in additive manufacturing	Feng, Shaw; Witherell, Paul; Cho, Hyunbo	2023	Title: additive
Big data driven jobs remaining time prediction in discrete	Fang, Weiguang; Guo, Yu; Liao, Wenhe; Ramani,		
manufacturing system: a deep learning-based approach	Karthik; Huang, Shaohua	2020	Title: Algorithm

Flexibilization 4.0 for production manufacturing	Laouenan, Gaspard; Dossou, Paul-Eric; Delahousse,		
optimization	Jean	2022	Abstract: Review
A quantum-based diagnostics approach for additive	Sharma, Vishal; Gupta, Shantanu; Mehta, Gaurav; Lad,		
manufacturing machine	Bhupesh K.	2021	Title: additive
Generalizability analysis of tool condition monitoring ensemble machine learning models	Schueller, Alexandra; Saldana, Christopher	2022	Abstract: Algorithm
Industrial Artificial Intelligence: A Predictive Agent Concept for Industry 4.0	Salazar, Luis Alberto Cruz; Vogel-Heuser, Birgit	2022	Abstract: No DAS for ML
Development of Fault Diagnosis Models Based on Predicting Energy Consumption of a Machine Tool Spindle	Choi, Won Hwa; Kim, Jun; Lee, Ju Yeon	2020	Title: energy
Development of Industrial Equipment Diagnostics System  Based on Modified Algorithms of Artificial Immune Systems	Samigulina, Galina; Samigulina, Zarina	2020	Title: Dreeses
and AMDEC Approach Using Schneider Electric Equipment		2020	Title: Process
DzAIN: Deep learning based generative design	Kallioras, Nikos Ath.; Lagaros, Nikos D.	2020	Title: Process
Effect of Oil Flow Rate on Production Through-Tool Dual Channel MQL Drilling	Raval, Jay K.; Stephenson, David A.; Tai, Bruce L.	2020	Title: Process
Enhancing the agro engineering system using game theory analytics	Anithaashri, T. P.; Ravichandran, G.	2020	Title: No manufacturing
Estimating Optimum Process Parameters in Textile Draping of Variable Part Geometries - A Reinforcement Learning Approach	Zimmerling, Clemens; Poppe, Christian; Kaerger, Luise	2020	Title: Algorithm
From self-aware to self-healing for perpetual manufacturing	Greis, Noel P.	2022	Abstract: Algorithm
Further development of adaptable automated visual inspection-part I: concept and scheme	Sun, Jun; Sun, Qiao	2015	Abstract: Algorithm
Integrating a data analytics system in automotive manufacturing: background, methodology and learned lessons	Dacal-Nieto, Angel; Jose Areal, Juan; Alonso-Ramos, Victor; Lluch, Marcos	2022	Full text: Concept
Knowledge Discovery in Engineering Applications Using Machine Learning Techniques	Kubik, Christian; Molitor, Dirk Alexander; Becker, Marco; Groche, Peter	2022	Abstract: Concept
Implementation of machine learning techniques for prognostics for railway wheel flange wear	Fourie, C. J.; du Plessis, J. A.	2020	Title: Process

In-Situ Monitoring of Laser Powder Bed Fusion Process Anomalies via a Comprehensive Analysis of Off-Axis Camera	Vallabh, Chaitanya Krishna Prasad; Xiong, Yubo; Zhao,		
Data	Xiayun	2020	Title: Process
Machine Learning for Diagnosis of Event Synchronization Faults in Discrete Manufacturing Systems	Cohen, Joseph; Jiang, Baoyang; Ni, Jun	2022	Abstract: Algorithm
Intelligent wood machining monitoring using vibration signals combined with self-organizing maps for automatic feature selection	Nasir, Vahid; Cool, Julie	2020	Title: Process
Investigated iterative convergences of neural network for prediction turning tool wear	Chang, Wen-Yang; Wu, Sheng-Jhih; Hsu, Jia-Wei	2020	Title: Algorithm
Metamodeling-based simulation optimization in manufacturing problems: a comparative study	Soares do Amaral, Joao Victor; Miranda, Rafael de Carvalho; Barra Montevechi, Jose Arnaldo; dos Santos, Carlos Henrique; Gabriel, Gustavo Teodoro	2022	Title: simulation
Investigations on machinability aspects of AISI 52100 with minimum quantity solid lubrication	Makhesana, Mayurkumar A.; Patel, K. M.	2020	Title: Process
Intelligent monitoring of multi-axis robots for online diagnostics of unknown arm deviations	Soualhi, Moncef; Nguyen, Khanh T. P.; Medjahe, Kamal; Lebel, Denis; Cazaban, David	2023	Title: robot
Ultrasonic assisted nano-fluid MQL in deep drilling of hard-to-cut materials	Tien-Dat Hoang; Quoc-Huy Ngo; Ngoc-Hung Chu; Thu- Ha Mai; Truong Nguyen; Ky-Thanh Ho; Du Nguyen	2022	Title: fluid
Machine Learning in CNC Machining: Best Practices	von Hahn, Tim; Mechefske, Chris K.	2022	Abstract: Algorithm
Learning-Based Prediction of Pose-Dependent Dynamics	Finkeldey, Felix; Wirtz, Andreas; Merhofe, Torben; Wiederkehr, Petra	2020	Title: No manufacturing
Machine learning and optimization for production rescheduling in Industry 4.0	Li, Yuanyuan; Carabelli, Stefano; Fadda, Edoardo; Manerba, Daniele; Tadei, Roberto; Terzo, Olivier	2020	Title: Process
Machine learning tools in production engineering	Rom, Michael; Brockmann, Matthias; Herty, Michael; Iacomini, Elisa	2022	Abstract: Algorithm
Machine Learning Based Predictive Model for AFP-Based Unidirectional Composite Laminates	Wanigasekara, Chathura; Oromiehie, Ebrahim; Swain, Akshya; Prusty, B. Gangadhara; Nguang, Sing Kiong	2020	Title: Process
Machine Learning-Based Reverse Modeling Approach for Rapid Tool Shape Optimization in Die-Sinking Micro Electro Discharge Machining	Surleraux, Anthony; Lepert, Romain; Pernot, Jean- Philippe; Kerfriden, Pierre; Bigot, Samuel	2020	Title: Process
Machine Tool Component Health Identification with Unsupervised Learning	Gittler, Thomas; Scholze, Stephan; Rupenyan, Alisa; Wegener, Konrad	2020	Title: health

Manufacturing lead time prediction for extrusion tools with	Sajko, Nika; Kovacic, Simon; Ficko, Mirko; Palcic, Iztok;		
the use of neural networks	Klancnik, Simon	2020	Title: Process
Identification and classification of materials using machine	Penumuru, Durga Prasad; Muthuswamy, Sreekumar;		
vision and machine learning in the context of industry 4.0	Karumbu, Premkumar	2020	Abstract: Algorithm
Meta-Data for In-Situ Monitoring of Laser Powder Bed	Fong Show Cally Van Janes Albert T		
Fusion Processes	Feng, Shaw C.; Lu, Yan; Jones, Albert T.	2020	Title: Process
How to use lean manufacturing for improving a Healthcare	Dossou, Paul-Eric; Rafael, Pereira; Cristiane, Salama;		
logistics performance	Joao, Chang Junior	2020	Title: health
Meta domain generalization for smart manufacturing: Tool	Wang, Dongdong; Liu, Qingyang; Wu, Dazhong; Wang,		
wear prediction with small data	Liqiang	2022	Full text: Algorithm
Procedural Guide for System-Level Impact Evaluation of			
Industrial Artificial Intelligence-Driven Technologies:	Sharp, Michael; Dadfarnia, Mehdi; Sprock, Timothy;		
Application to Risk-Based Investment Analysis for Condition	Thomas, Douglas		
Monitoring Systems in Manufacturing		2022	Full text: Concept
Kullback-Leibler Divergence Constructed Health Indicator for	Aremu, Oluseun Omotola; O'Reilly, Darren O.; Hyland-		
Data-Driven Predictive Maintenance of Multi-Sensor	Wood, David; McAree, Peter Ross	2019	Title: health
Model Based Root Cause Analysis of Manufacturing Quality			
Problems Using Uncertainty Quantification and Sensitivity	Otto, Kevin; Mosqueda, Josefina Sanchez		
Analysis		2020	Title: Process
Modeling and Predicting an Industrial Process Using a Neural	Nykyri, Mikko; Kuisma, Mikko; Hallikas, Jukka;		
Network and Automation Data	Immonen, Mika; Silventoinen, Pertti	2020	Title: Process
No you scc me, now you don't - using machine learning to	Smith, Michael; Blenkinsop, Aidan; Capewell, Matthew;		
find stress corrosion cracking	Kerrigan, Brian	2020	Title: Process
Nozzle scaling effects for the thermohydraulic performance	Wei, TW.; Oprins, H.; Fang, Liang; Cherman, V.; De		
of microjet impingement cooling with distributed returns	Wolf, I.; Beyne, E.; Baelmans, M.	2020	Title: Process
On Transfer Learning of Traditional Frequency and Time	Vosilli Molih C. Khasayanah Firas A		
Domain Features in Turning	Yesilli, Melih C.; Khasawneh, Firas A.	2020	Title: Process
Machine Learning based System Identification Tool for data-	Weber, Thomas; Sossenheimer, Johannes; Schaefer,		
based Energy and Resource Modeling and Simulation	Steffen; Ott, Moritz; Walther, Jessica; Abele, Eberhard	2019	Title: simulation
One Comprehensive Method to Analyze Semiconductor	Cu Lin Vu Wai		
Manufacturing Data by Piecewise Regression	Gu, Lin; Yu, Wei	2020	Title: Process
Introducing data analytics to the reports drilling process	Al Khawli, Toufik; Bendemra, Hamza; Anwar,		
Introducing data analytics to the robotic drilling process	Muddasar; Swart, Dewald; Dias, Jorge	2018	Title: robot

Production Flow Management Based on Industry 4.0	Amejwal, Mohamed; El Jaouhari, Asmae; Arif, Jabir;		
Technologies	Fellaki, Soumaya; Jawab, Fouad	2022	Abstract: Review
Agent-based modelling of multi-robot systems	Oprea, M.	2018	Title: robot
Data analysis and visualization framework in the	Vafeiadis, T.; Kalatzis, D.; Nizamis, A.; Ioannidis, D.;		
manufacturing decision support system of COMPOSITION	Apostolou, K.; Metaxa, I. N.; Charisi, V.; Beecks, C.;		
project	Insolvibile, G.; Pardi, M.; Vergori, P.; Tzovaras, D.	2019	Included in investigation
Position Paper: Low-cost Prototyping and Solution	Yamanoor, Srihari; Yamanoor, Narasimha; Thyagaraja,		
Development for Pandemics and Emergencies using Industry	Satyakanth		
4.0	Satyakantii	2020	Title: Process
Hybrid learning-based digital twin for manufacturing	Huang, Ziqi; Fey, Marcel; Liu, Chao; Beysel, Ege; Xu,		
process: Modeling framework and implementation	Xun; Brecher, Christian	2023	Title: digital twin
A framework driven by physics-guided machine learning for	Ko, Hyunwoong; Lu, Yan; Yang, Zhuo; Ndiaye, Ndeye Y.;		
process-structure-property causal analytics in additive	Witherell, Paul		
manufacturing	Witheren, Faul	2023	Title: additive
Predicting Solid Particle Erosion and Uncertainty in Elbows	Karimi, Soroor; Xu, Bohan; Asgharpour, Alireza; Shirazi,		
by Artificial Intelligence Methods	Siamack A.; Sen, Sandip	2020	Title: No manufacturing
Predicting Surface Roughness and Flank Wear in Turning	Nhu Khue Vuong; Xue, Yang; Liu, Shudong; Zhou, Yu;		
Processes	Wu, Min	2020	Title: Process
Predicting the Emissive Characteristics of an IC Engine Using	Pravin, M. C.; Mukilan, M.; Prakash, Vishnu G.; Nithish,		
DNN	P.; Kanna, Monish B.; Logesh, E.	2020	Title: Process
Prediction of cutting tool wear during a turning process	Marani, Mohsen; Zeinali, Mohammadjavad; Kouam,		
using artificial intelligence techniques	Jules; Songmene, Victor; Mechefske, Chris K.	2020	Title: Process
	Escobar, Carlos Alberto; Macias, Daniela; McGovern,		
Quality 4.0-an evolution of Six Sigma DMAIC	Megan; Hernandez-de-Menendez, Marcela; Morales-		
	Menendez, Ruben	2022	Abstract: Review
Towards Lean Automation: Fine-Grained sentiment analysis	Xiao, Yan; Li, Congdong; Thurer, Matthias; Liu, Yide;		
for customer value identification	Qu, Ting	2022	Title: lean
Preliminary experimental analysis of the surface topography			
formation during laser polishing H13 tooling steel using	Bordatchev, Evgueni V.; Cvijanovic, Srdjan J.; Tutunea-		
statistical characteristics of the surface amplitude	Fatan, Remus O.		
distribution		2020	Title: Process
Combining Simulation and Data Analytics for OEE	Lindegren, M. L.; Lunau, M. R.; Mafia, M. M. P.; da		
Improvement	Silva, Ribeiro E.	2022	Title: simulation

Product Completion Time Prediction Using A Hybrid	Huang Jing Chang Ging Arings James		
Approach Combining Deep Learning and System Model	Huang, Jing; Chang, Qing; Arinez, Jorge	2020	Title: Process
Smart defect identification for manufacturing applications	Nakkina, Tapan Ganatma; Vinayaka, Man; Masad, Amr; El Mansori, Mohamed; Bukkapatnam, Satish	2022	Abstract: Concept
A Computer Vision Approach to Evaluate Powder Flowability	Zhang, Jiahui; Habibnejad-korayem, Mahdi; Liu,		
for Metal Additive Manufacturing	Zhiying; Lyu, Tianyi; Sun, Qiang; Zou, Yu	2021	Title: additive
Rapid Estimation of Die and Mold Machining Time Without NC Data by Al Based on Shape Data	Takizawa, Hiroki; Aoyama, Hideki; Won, Song Cheol	2020	Title: Process
Real-time automatic optical system to assist operators in the assembling of electronic components	Ojer, M.; Serrano, I.; Saiz, F.; Barandiaran, I.; Gil, I.; Aguinaga, D.; Alejandro, D.	2020	Title: No relation to ML
Smart seru production system for Industry 4.0: a conceptual model based on deep learning for real-time monitoring and controlling	Torkul, Orhan; Selvi, Ihsan Hakan; Sisci, Merve	2022	Abstract: Concept
Network-based pricing for 3D printing services in two-sided manufacturing-as-a-service marketplace	Pahwa, Deepak; Starly, Binil	2020	Title: 3D
Remaining Useful Life Prediction under Multiple Operation Conditions Based on Domain Adaptive Sparse Auto-Encoder	Fu, Binghao; Wu, Zhenyu; Guo, Juchuan	2020	Title: Algorithm
Organization the information support of full logistic supply chains within the Industry 4.0	Rahimi, Yashar; Matyshenko, Igor; Kapitan, Ruslan; Pronchakov, Yurii	2020	Title: supply chain
The effect of process digitalization initiative on firm performance: A dynamic capability development	Yang, Yefei; Yee, Rachel W. Y.	2022	Abstract: Review
Self-optimizing compensation of surface deviations in 5-axis ball-end milling based on an enhanced description of cutting conditions	Dittrich, Marc-Andre; Uhlich, Florian	2020	Title: Process
Transfer learning for autonomous chatter detection in machining	Yesilli, Melih C.; Khasawneh, Firas A.; Mann, Brian P.	2022	Abstract: Algorithm
Intelligent Decision Making Approach for Performance Evaluation of a Robot-Based Manufacturing Cell	Kangru, Tavo; Riives, Juri; Otto, Tauno; Pohlak, Meelis; Mahmood, Kashif	2019	Title: robot
Shop floor management system in the context of smart manufacturing: a case study	Torres, Diamantino; Pimentel, Carina; Duarte, Susana	2020	Title: No relation to ML
Smart Machining Process Monitoring Enabled by Contextualized Process Profiles for Synchronization	Wang, Zhigang; Wagner, Timothy C.; Guo, Changsheng	2020	Title: Process

What is Quality 4.0? An exploratory sequential mixed			
methods study of Italian manufacturing companies	Chiarini, Andrea; Kumar, Maneesh	2022	Abstract: Review
Design of Experiments-Statistical and Artificial Intelligence	La conferencia Delega De Decembra		
Analysis for the Improvement of Machining Processes: A	Lauro, Carlos H.; Pereira, Robson B. D.; Brandao,		
Review	Lincoln C.; Davim, J. P.	2016	Title: review
A cost-effective manufacturing process recognition	Liu, Bufan; Zhang, Yingfeng; Lv, Jingxiang; Majeed,		
approach based on deep transfer learning for CPS enabled	Arfan; Chen, Chun-Hsien; Zhang, Dang	2021	Abstract: Algorithm
A Study of the Inspection Support Tool Development Using	Use and the Alexander B		
the Neural Network	Haraguchi, H.; Akaishi, R.	2021	Abstract: Algorithm
Thermal error modeling and prediction analysis based on	Yao, Xiaopeng; Hu, Teng; Yin, Guofu; Cheng, Chuanhua		
OM algorithm for machine tool's spindle	rao, Alaopeng, nu, Teng, tili, Guoru, Cheng, Chuailitua	2020	Title: Process
Thermal Error Modeling of Feed Axis in Machine Tools Using			
Particle Swarm Optimization-Based Generalized Regression	Li, Guolong; Ke, Hao; Li, Chuanzhen; Li, Biao		
Neural Network		2020	Title: Process
Understanding and Evaluating Naive Diagnostics Algorithms			
Applicable in Multistage Manufacturing From a Risk	Dadfarnia, Mehdi; Sharp, Michael; Sprock, Timothy		
Management Perspective		2020	Title: Algorithm
AI Based Knowledge Management System for Risk	Razouk, Houssam; Kern, Roman; Mischitz, Martin;		
Assessment and Root Cause Analysis in Semiconductor	Moser, Josef; Memic, Mirhad; Liu, Lan; Burmer,		
Industry	Christian; Safont, Anna	2021	Abstract: Concept
A novel method for predicting delamination of carbon fiber	Cui, Jiacheng; Liu, Wei; Zhang, Yang; Gao, Changyong;		
reinforced plastic (CFRP) based on multi-sensor data	Lu, Zhe; Li, Ming; Wang, Fuji	2021	Title: Process
A slag prediction model in an electric arc furnace process for	Murua, Maialen; Boto, Fernando; Anglada, Eva;		
special steel production	Cabero, Jose Mari; Fernandez, Leixuri	2021	Title: Process
Strategic Key Elements in Big Data Analytics as Driving			
Forces of IoT Manufacturing Value Creation: A Challenge for	Rajnoha, Rastislav; Hadac, Jakub		
Research Framework		2021	Title: strategic
Data-driven manufacturing: An assessment model for data	Gokalp, Mert Onuralp; Gokalp, Ebru; Kayabay, Kerem;		
science maturity	Kocyigit, Altan; Eren, P. Erhan	2021	Abstract: Concept
A supervised machine learning approach for the	Zangaro, Francesco; Minner, Stefan; Battini, Daria		
optimisation of the assembly line feeding mode selection		2021	Title: Process
A time series classification approach to non-destructive	Unterberg, Martin; Stanke, Joachim; Trauth, Daniel;		
hardness testing using magnetic Barkhausen noise emission	Bergs, Thomas	2021	Title: Process

Advanced Modeling of Drilling – Realistic Process Mechanics			
Leading to Helical Chip Formation	Lortz, Wolfgang; Pavel, Radu	2021	Title: Process
Decision Models for Supplier Selection in Industry 4.0 Era: A	Resende, Carlos H. L.; Geraldes, Carla A. S.; Lima Junior,		
Systematic Literature Review	Francisco Rodrigues	2021	Title: review
Numerical simulations for laser clad beads with a variable	Zarah Daryanah Hrhania D. I		
side-to-side overlap condition	Zareh, Parvaneh; Urbanic, R. J.	2020	Title: simulation
A Predictive Analytics Tool to Provide Visibility Into	Liu, Jundi; Hwang, Steven; Yund, Walter; Neidig, Joel		
Completion of Work Orders in Supply Chain Systems	D.; Hartford, Scott M.; Boyle, Linda Ng; Banerjee, Ashis	2020	Title: supply chain
Decision Support by Interpretable Machine Learning in	Schmetz, A.; Vahl, C.; Zhen, Z.; Reibert, D.; Mayer, S.;		
Acoustic Emission Based Cutting Tool Wear Prediction	Zontar, D.; Garcke, J.; Brecher, C.	2021	Abstract: Algorithm
	Mohimont, Lucas; Roesler, Mathias; Steffenel, Angelo;		
AI-Based Quality Control System at the Pressing Stages of	Gaveau, Nathalie; Rondeau, Marine; Alin, Francois;		
the Champagne Production	Pierlot, Clement; de Oliveira, Rachel Ouvinha; Coppola,		
	Marcello; Dore, Philipe	2021	Title: Process
Validating Technology-Organization-Environment (TOE)	Tarofder, Arun Kumar; Jawabri, Adnan; Haque,		
Framework in Web 2.0 Adoption in Supply Chain	Ahasanul; Sherief, Sultan Rehman		
Management		2019	Title: supply chain
AI-enabled dynamic finish machining optimization for	Schoop, Julius; Poonawala, Hasan A.; Adeniji, David;		
sustained surface integrity	Clark, Benton	2021	Title: Process
Development of a Pilot Manufacturing Cyberinfrastructure	Bharadwaj, Akshay; Xu, Yang; Angrish, Atin; Chen,		
With an Information Rich Mechanical CAD 3D Model	Yong; Starly, Binil		
Repository	Tong, starry, Sillin	2019	Title: 3D
An evolutionary neural network approach to machining	Chen, Niechen		
process planning: A proof of concept	enery rivedite.	2021	Title: Algorithm
An integrated curvature surface inspection and prediction	Kuo, Chung-Feng Jeffrey; Weng, Wei-Han		
system for 5-axis synchronization machining	nad, chang reng senrey, weng, wer nan	2021	Title: Process
Analysis of Surface Roughness in End-Milling of Aluminium	Balonji, Serge; Okokpujie, I. P.; Tartibu, L. K.		
Using an Adaptive Network-Based Fuzzy Inference System	balonji, serge, okokpajie, i. i., rartiba, i. k.	2021	Title: Algorithm
Application of machine learning for acoustic emissions	Griffin, James M.; Shanbhag, Vignesh V.; Pereira,		
waveform to classify galling wear on sheet metal stamping	Michael P.; Rolfe, Bernard F.		
tools	Michael I., Rolle, Belliara I.	2021	Title: Process

Assessment of cylindricity and roughness tolerances of holes	Abbassi, Amira; Trabelsi, Ali; Akrichi, Sofien; Ben Yahia,		
drilled in marble using multiple regression and artificial	Noureddine		
intelligence	Nouredullie	2021	Title: Process
Dawn of new machining concepts: Compensated, intelligent,	Wegener, Konrad; Gittler, Thomas; Weiss, Lukas		
bioinspired	wegener, Konrad; Gittler, Thomas; Weiss, Lukas	2018	Title: bio
Surface Roughness Prediction in Additive Manufacturing	Win Dazhangi Wai Vinangi Tarnannu Janis		
Using Machine Learning	Wu, Dazhong; Wei, Yupeng; Terpenny, Janis	2018	Title: additive
Condition-based maintenance: an industrial application on	Acernese, Antonio; Del Vecchio, Carmen; Tipaldi,		
rotary machines	Massimo; Battilani, Nicola; Glielmo, Luigi	2021	Title: Process
Convolutional Neural Network Design for Improvement of	Chang Ting Viv. Chang Jan Vivan (James)		
Machining Quality Monitoring	Chang, Ting-Yu; Chang, Jen-Yuan (James)	2021	Title: Algorithm
Design of a Physics-Based and Data-Driven Hybrid Model for	Traini Emiliana, Bruna Ciulia, Lambardi Eranaa		
Predictive Maintenance	Traini, Emiliano; Bruno, Giulia; Lombardi, Franco	2021	Abstract: Concept
Investigating the impact of digital transformation on			
relationship and collaboration dynamics in supply chains and	Hamann-Lohmer, Jacob; Bendig, Miriam; Lasch, Rainer		
manufacturing networks-A multi-case study		2023	Title: supply chain
Augmented reality user interface design and experimental	Chu, Chih-Hsing; Liu, Yu-Lun		
evaluation for human-robot collaborative assembly	Chu, Chili-Hshig, Liu, Fu-Luli	2023	Title: robot
Explaining Learning Models in Manufacturing Processes	Goldman, Claudia V.; Baltaxe, Michael; Chakraborty,		
Explaining Learning Models in Mandiacturing Processes	Debejyo; Arinez, Jorge	2021	Abstract: Process
A human-centric framework for robotic task learning and	Roveda, Loris; Veerappan, Palaniappan; Maccarini,		
optimization	Marco; Bucca, Giuseppe; Ajoudani, Arash; Piga, Dario	2023	Title: robot
From Plants to Network: Digitalization as an Enabler for	Benninghaus, Christoph		
Global Manufacturing	Berningriaus, Christoph	2021	Abstract: No DAS for ML
Enhanced safety implementation in 5S+1 via object	Shahin, Mohammad; Chen, F. Frank; Hosseinzadeh, Ali;		
detection algorithms	Koodiani, Hamid Khodadadi; Bouzary, Hamed; Shahin,		
luctection algorithms	Awni	2023	Title: safety
Sustainable Vegetable Oil-Based Minimum Quantity	Alshibi, Assem; Nasreldin, Abdelrahman; Pervaiz,		
Lubrication Assisted Machining of AZ91 Magnesium Alloy: A	Salman		
Grey Relational Analysis-Based Study	Jaiiiiaii	2023	Title: sustainab
Development of a speed invariant deep learning model with	Lee, Wo Jae; Xia, Kevin; Denton, Nancy L.; Ribeiro,		
application to condition monitoring of rotating machinery	Bruno; Sutherland, John W.	2021	Title: Algorithm

Automated Defect Analysis of Additively Fabricated Metallic	Nemati, Saber; Ghadimi, Hamed; Li, Xin; Butler, Leslie		
Parts Using Deep Convolutional Neural Networks	G.; Wen, Hao; Guo, Shengmin	2022	Title: additive
Dynamic R-Curve analysis and optimization of steam power plant solar repowering	Kabiri, S.; Manesh, M. H. Khoshgoftar; Amidpour, M.	2021	Title: Process
Embedded Artificial Intelligence Approach for Gas Recognition in Smart Agriculture Applications Using Low Cost MOX Gas Sensors	Bruno, Claudia; Licciardello, Antonella; Nastasi, Giuseppe Antonio Maria; Passaniti, Fabio; Brigante, Carmen; Sudano, Francesco; Faulisi, Alessandro; Alessi, Enrico	2021	Title: Process
Energy prediction for CNC machining with machine learning	Brillinger, Markus; Wuwer, Marcel; Hadi, Muaaz Abdul; Haas, Franz	2021	Title: Process
Estimating surface roughness for different EDM processing	Ozkavak, Hatice Varol; Sofu, Mehmet Mahir; Duman,		
parameters on Inconel 718 using GEP and ANN	Burhan; Bacak, Selim	2021	Title: Process
Estimation of cBN grinding wheel condition using image sensor	Lee, Eddie Taewan; Fan, Zhaoyan; Sencer, Burak	2021	Title: Process
Generic Design Methodology for Smart Manufacturing Systems from a Practical Perspective. Part II-Systematic Designs of Smart Manufacturing Systems	Bi, Zhuming; Zhang, Wen-Jun; Wu, Chong; Luo, Chaomin; Xu, Lida	2021	Title: No relation to ML
Ex-situ porosity classification in metallic components by laser metal deposition: A machine learning-based approach	Garcia-Moreno, Angel-Ivan; Alvarado-Orozco, Juan- Manuel; Ibarra-Medina, Juansethi; Martinez-Franco, Enrique	2021	Title: Process
Fab Fingerprint for Proactive Yield Management	Gross, David; Gramling, Katherine; Bachiraju, Prasad L.	2021	Title: Process
Feature selection methods for root-cause analysis among top-level product attributes	Detzner, Alexander; Eigner, Martin	2021	Title: Process
Fleet learning of thermal error compensation in machine tools	Stoop, Fabian; Mayr, Josef; Sulz, Clemens; Bleicher, Friedrich; Wegener, Konrad	2021	Title: Process
Flow-shop path planning for multi-automated guided vehicles in intelligent textile spinning cyber-physical production systems dynamic environment	Farooq, Basit; Bao, Jinsong; Raza, Hanan; Sun, Yicheng; Ma, Qingwen	2021	Title: Process
Random decision forest based sustainable green machining using Citrullus lanatus extract as bio-cutting fluid	Sankaranarayanan, R.; Hynes, N. Rajesh Jesudoss; Kumar, J. Senthil; Sujana, J. Angela Jennifa	2021	Title: bio

	Babu, Monisa Ramesh; Song, Shenghua; Xie, Qian;		
Foundry approach for layout risk assessment through	Rezaifakhr, Pouya; Chiu, Eric; Park, Joo Hyun; Ryan,		
comprehensive pattern harvesting and large-scale data	Deborah; Murali, Kiruthika; Poloju, Praneetha; Malik,		
analysis	Shobhit; Yin, Haizhou; Madhavan, Sriram;		
	Venkatachalam, Panneerselvam	2021	Title: Process
Intelligent decision-making support system for manufacturing solution recommendation in a cloud framework	Simeone, Alessandro; Zeng, Yunfeng; Caggiano, Alessandra	2021	Full text: Algorithm
A path planning method of lattice structural components for additive manufacturing	Zhou, Bo; Tian, Tongtong	2021	Title: additive
Generative Adversarial Networks for spot weld design	Gerlach, Tobias; Eggink, Derk H. D.	2021	Title: Process
Challenges and opportunities for artificial intelligence and			
high-fidelity simulations in turbomachinery applications: a perspective	Michelassi, Vittorio; Ling, Julia	2021	Title: simulation
Prognosis Smart System Al-based Applied to Equipment Health Monitoring in 4.0 Industry Scenario	Silva, Alecio; Souza, Gilberto F. M.	2021	Title: health
Milling tool wear prediction using unsupervised machine	Gittler, Thomas; Glasder, Magnus; Ozturk, Elif; Luthi,	2021	Title. Health
learning	Michel; Weiss, Lukas; Wegener, Konrad	2021	Abstract: Algorithm
Implementation of Artificial Intelligence in Bending Analysis		2021	, issue deci , iigo i i i i i
of Propeller/Fan Blade	Hase, Aniket Anil; Chang, Jen-Yuan (James)	2021	Title: Process
Development of a new robotic programming support system for operators	Emeric, Colombet; Geoffroy, Debled; Paul-Eric, Dossou	2020	Title: robot
Infrared Thermography Based Hotspot Detection Of	Tajwar, Tahmid; Mobin, Ovib Hassan; Khan, Fariha		
Photovoltaic Module using YOLO	Reza; Hossain, Shara Fatema; Islam, Mohaimenul;		
Thotovoltale Would daing Tolo	Rahman, Md Mosaddequr	2021	Title: Process
	Alvarez-Napagao, Sergio; Ashmore, Boki; Barroso,		
	Marta; Barrue, Cristian; Beecks, Christian; Berns,		
	Fabian; Bosi, Ilaria; Chala, Sisay Adugna; Ciulli, Nicola;		
knowlEdge Project - Concept, Methodology and Innovations	Garcia-Gasulla, Marta; Grass, Alexander; Ioannidis,		
for Artificial Intelligence in Industry 4.0	Dimosthenis; Jakubiak, Natalia; Koepke, Karl; Lamsa,		
	Ville; Megias, Pedro; Nizamis, Alexandros; Pastrone,		
	Claudio; Rossini, Rosaria; Sanchez-Marre, Miquel;		
	Ziliotti, Luca	2021	Full text: Concept

New insights into the methods for predicting ground surface	Pan, Yuhang; Zhou, Ping; Yan, Ying; Agrawal, Anupam;		
roughness in the age of digitalisation	Wang, Yonghao; Guo, Dongming; Goel, Saurav	2021	Abstract: Review
IOT data-driven experimental process optimisation for	Mastandrea, Giuseppe; Mattia, Daniele; D'Oriano,		
kevlar fiberglass components for aeronautic	Luigi; Rana, Giuseppe Rocco; Nocera, Francesco;		
Revial liberglass components for defondution	Mongiello, Marina	2021	Title: Process
Automated parameterization of local support at every	Stoerkle, Denis; Altmann, Peter; Moellensiep, Dennis;		
toolpath point in robot-based incremental sheet forming	Thyssen, Lars; Kuhlenkoetter, Bernd	2019	Title: robot
USING MACHINE LEARNING TO PREDICT CORE SIZES OF	Tong, Michael T.		
HIGH-EFFICIENCY TURBOFAN ENGINES	Tong, Michael 1.	2019	Duplication
On-line chatter detection in milling with hybrid machine	Rahimi, M. Hossein; Huynh, Hoai Nam; Altintas, Yusuf		
learning and physics-based model	Rahimi, M. Hossein, Huyini, Hoai Nam, Altintas, Tusul	2021	Abstract: Process
Lithography tool improvement at productivity and	Takarada, Yosuke; Shelton, Douglas; Fukada, Tsuneari;		
performance with data analysis and machine learning	Katayama, Shosi; Mori, Ken-Ichiro; Miura, Seiya	2021	Title: Process
Past Infrastructures and Future Machine Intelligence (MI)	Haman Camush Minkawai Amin		
for Biofuel Production: A Review and MI-Based Framework	Hansen, Samuel; Mirkouei, Amin	2018	Title: bio
Machine learning classification-based approach for	The alivel Chiuse seen, Michael Alcheseh		
mechanical properties of friction stir welding of copper	Thapliyal, Shivraman; Mishra, Akshansh	2021	Title: Process
Machine learning cutting force, surface roughness, and tool	Thong Vun Vu Vinnia		
life in high speed turning processes	Zhang, Yun; Xu, Xiaojie	2021	Title: Process
Machine Learning of Surface Layer Property Prediction for	Uhlmann, Eckart; Holznagel, Tobias; Schehl, Philipp;		
Milling Operations	Bode, Yannick	2021	Title: Process
Machine learning-based marker length estimation for	Vi. Vannii Thomassay Cohastiani Zong Vianyi		
garment mass customization	Xu, Yanni; Thomassey, Sebastien; Zeng, Xianyi	2021	Title: Process
	Cao, Jian; Brinksmeier, Ekkard; Fu, Mingwang; Gao,		
Manufacturing of advanced smart tooling for metal forming	Robert X.; Liang, Biao; Merklein, Marion; Schmidt,		
	Michael; Yanagimoto, Jun	2019	Abstract: Survey
	Sevcik, Max J.; Bjerke, Gabriel; Wilson, Finnegan; Kline,		
Extrusion parameter control optimization for DIW 3D	Dylan J.; Morales, Rodrigo Chavez; Fletcher, Hannah E.;		
printing using image analysis techniques	Guan, Kelly; Grapes, Michael D.; Seetharaman, Sridhar;		
	Sullivan, Kyle T.; Belof, Jonathan L.; Eliasson, Veronica	2023	Title: 3D
An integrated control strategy for simultaneous robot			
assignment, tool change and preventive maintenance	Bhatta, Kshitij; Chang, Qing		
scheduling using Heterogeneous Graph Neural Network		2023	Title: robot

A comparative study of machine learning algorithms in the			
prediction of bead geometry in wire-arc additive	Chandra, Mukesh; Vimal, K. E. K.; Rajak, Sonu		
manufacturing		2023	Title: additive
Manufacturing process monitoring using time-frequency			
representation and transfer learning of deep neural	Liao, Yabin; Ragai, Ihab; Huang, Ziyun; Kerner, Scott		
networks		2021	Title: Algorithm
Role of biodegradable dielectrics toward tool wear and	Ishfaq, Kashif; Sana, Muhammad; Rehman, Mudassar;		
dimensional accuracy in Cu-mixed die sinking EDM of			
Inconel 600 for sustainable machining	Anwar, Saqib; Alfaify, Abdullah Yahia; Zia, Abdul Wasy	2023	Title: bio
Metamodeling of Cyber-Physical Production Systems using	Juhlin, Prerna; Schlake, Jan-Christoph; Janka, Dennis;		
AutomationML for Collaborative Innovation	Hawlitschek, Adrian	2021	Title: Process
Characterization and machine learning-based parameter	Vardhanapu, Muralidhar; Chaganti, Phaneendra Kiran;		
estimation in MQL machining of a superalloy for developed			
green nano-metalworking fluids	Tarigopula, Pranay	2023	Title: fluid
Modeling Fused Filament Fabrication using Artificial Neural	Oehlmann, Paul; Osswald, Paul; Blanco, Juan Camilo;		
Networks	Friedrich, Martin; Rietzel, Dominik; Witt, Gerd	2021	Title: Process
Multiple Sound Sensors And Fusion In Modern CNN-Based	Kim, Eunseob; Yun, Huitaek; Jun, Martin Byung-Guk;		
Machine State Prediction	Kim, Kyunghyun; Cha, Suk Won	2021	Title: Algorithm
Multi-Scale Convolutional Gated Recurrent Unit Networks	Xu, Weixin; Miao, Huihui; Zhao, Zhibin; Liu, Jinxin; Sun,		
for Tool Wear Prediction in Smart Manufacturing	Chuang; Yan, Ruqiang	2021	Title: Algorithm
Physics-guided logistic classification for tool life modeling	Karandikar, Jaydeep; Schmitz, Tony; Smith, Scott		
and process parameter optimization in machining	Karandikar, Jaydeep, Schillitz, Tony, Silliti, Scott	2021	Abstract: Process
Indirect measurement of cutting forces during robotic	Mun, Chang Hyeon; Rezvani, Sina; Lee, Jiho; Park,		
milling using multiple sensors and a machine learning-based	Simon S.; Park, Hyung Wook; Lee, Jihyun		
system identifier	Simon S., Fark, Hyung Wook, Lee, Jinyun	2023	Title: robot
Online Chatter Detection for Milling Operations Using LSTM			
Neural Networks Assisted by Motor Current Signals of Ball	Vashisht, Rajiv Kumar; Peng, Qingjin		
Screw Drives		2021	Title: Algorithm
Process identification in practice: software-supported	Benesch, Manfred; Dementyev, Alexander; Kubin,		
modeling for controller design	Hellmuth; Ihlenfeldt, Steffen	2021	Full text: Process
Online tool condition monitoring for ultrasonic metal	Nazir, Qasim; Shao, Chenhui		
welding via sensor fusion and machine learning	ivazii, Qasiiii, Sildu, Cileliilui	2021	Title: Process

Optimal transport-based transfer learning for smart			
manufacturing: Tool wear prediction using out-of-domain	Xie, Rui; Wu, Dazhong		
data		2021	Title: Process
Metacognitive learning approach for online tool condition	Pratama, Mahardhika; Dimla, Eric; Lai, Chow Yin;		
monitoring	Lughofer, Edwin	2019	Full text: Algorithm
Optimizing OCTG Thread Manufacturing Operation Using	Nair Breshout Havilgiahaan		
Automation	Nair, Prashant Unnikrishnan	2021	Title: Process
PCD Milling Cutter Remaining Useful Life Prediction for	Chen, Shang-Liang; Lee, Kuei-Ming; Huang, Yen-Hsiang;		
Titanium and Aluminum Mirror Milling by Using S2S-LSTM	Lu, Yu-Ting; Lin, Yu-Fu; Huang, Ho-Chuan		
Deep Learning Technology	Lu, Tu-Tilig, Lili, Tu-Fu, Hualig, Ho-Cliuali	2021	Title: Process
Performance Evaluation of the Data Clustering Techniques	Nagargoje, Aniket; Kankar, Pavan K.; Jain, Prashant K.;		
and Cluster Validity Indices for Efficient Toolpath	Tandon, Puneet		
Development for Incremental Sheet Forming	randon, runeet	2021	Title: Process
Recent Developments Towards Industry 4.0 Oriented	Drakaki, Maria; Karnavas, Yannis L.; Tzionas,		
Predictive Maintenance in Induction Motors	Panagiotis; Chasiotis, Ioannis D.	2021	Full text: Process
Predicting tool wear size across multi-cutting conditions	Shen, Yan; Yang, Feng; Habibullah, Mohamed		
using advanced machine learning techniques	Salahuddin; Ahmed, Jhinaoui; Das, Ankit Kumar; Zhou,		
asing davanced indefinite rearrining teeriniques	Yu; Ho, Choon Lim	2021	Title: Process
	LaRose, J. D.; Barker, John; Finlay, Boyd; Trinidad, Alex;		
Predictive Maintenance of Pump and Abatement Equipment			
in a 300mm Semiconductor Fab	Ray, Dana; Perry, John; Tarnawskyj, Walter; Lansford,		
	Jeremy	2021	Title: Process
Research on tool wear prediction based on temperature	He, Zhaopeng; Shi, Tielin; Xuan, Jianping; Li, Tianxiang		
signals and deep learning	,	2021	Abstract: Algorithm
Process planning for die and mold machining based on	Hashimoto, Mayu; Nakamoto, Keiichi		
pattern recognition and deep learning		2021	Title: Process
	Miao, Chenlong; Ryan, Deborah; Yin, Haizhou; Babu,		
Quick Yield Impact Assessment Using Silicon-design Correlation to Address Design Systematics	Monisa Ramesh; Song, Shenghua; Chiu, Eric; Malik,		
	Shobhit; Madhavan, Sriram; Wojtowecz, Michael; Lin,		
	Peter; Wilkinson, William; Lim, C. T.; Venkatachalam,		
	Panneerselvam	2021	Title: Process
Radial slicing for helical-shaped advanced manufacturing	Munasinghe, Nuwan; Paul, Gavin		
applications	0 -, , , , ,	2021	Title: Process

Rapid feasibility assessment of components to be formed	Attar, Hamid Reza; Zhou, Haosu; Foster, Alistair; Li, Nan		
through hot stamping: A deep learning approach	recar, marina neza, znoa, massa, nester, mistari, zi, mari	2021	Title: Process
Sample Extraction of a Quality Inspection Tool for Dental	Akaishi, R.; Haraguchi, H.		
Parts Manufacturing Industry	Akaisiii, iki, Haragaciii, iii.	2021	Full text: Process
Technical language processing: Unlocking maintenance	Brundage, Michael P.; Sexton, Thurston; Hodkiewicz,		
knowledge	Melinda; Dima, Alden; Lukens, Sarah	2021	Abstract: Not a DAS
The concept of operation and production control	Wolniak, Radoslaw	2021	Abstract: Review
Optimization Techniques and Formal Verification for the	Perez, Jon; Flores, Jose Luis; Blum, Christian; Cerquides,		
Software Design of Boolean Algebra Based Safety-Critical			
Systems	Jesus; Abuin, Alex	2022	Title: lean
Self-supervised learning for tool wear monitoring with a			
disentangled-variational-autoencoder	von Hahn, Tim; Mechefske, Chris K.	2021	Title: Process
Integrating human cognition in cyber-physical systems: A	Dealdisch Franziska Dealbaudi Cand Zimmanna		
multidimensional fuzzy pattern model with application to	Bocklisch, Franziska; Paczkowski, Gerd; Zimmermann,		
thermal spraying	Stephan; Lampke, Thomas	2022	Included in investigation
Construction of a Smart Vision-Guided Robot System for			
Manipulation in a Dynamic Environment	Arents, Janis; Greitans, Modris; Lesser, Bernd	2021	Title: robot
Semi-supervised deep learning based framework for			
assessing manufacturability of cellular structures in direct	Guo, Yilin; Lu, Wen Feng; Fuh, Jerry Ying Hsi		
metal laser sintering process		2021	Title: Process
Service-oriented collaboration framework based on cloud	Liu, Xiahui; Deng, Qianwang; Gong, Guiliang; Lv,		
platform and critical factors identification	Mengran; Jiang, Chao	2021	Title: Process
The interpretive model of manufacturing: a theoretical			
framework and research agenda for machine learning in	Sharma, Ajit; Zhang, Zhibo; Rai, Rahul		
manufacturing		2021	Abstract: Review
	Raut, Rakesh; Narwane, Vaibhav; Kumar Mangla,		
Unlocking causal relations of barriers to big data analytics in	Sachin; Yadav, Vinay Surendra; Narkhede, Balkrishna		
manufacturing firms	Eknath; Luthra, Sunil	2021	Abstract: Review
A knowledge-based approach for representing jobholder			
profile toward optimal human-machine collaboration in	Ansari, Fazel; Hold, Philipp; Khobreh, Marjan		
cyber physical production systems		2020	Abstract: No DAS for ML
The Thermal Error Estimation of the Machine Tool Spindle			
Based on Machine Learning	Chiu, Yu-Cheng; Wang, Po-Hsun; Hu, Yuh-Chung	2021	Title: Process
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Enabling Factors of Digital Manufacturing Supply Chains: A	Weerabahu, W. M. S. K.; Samaranayake, Premaratne;		
Systematic Literature Review	Nakandala, Dilupa; Hurriyet, Hilal	2021	Title: review
Tool condition monitoring and tool defect detection for end	Fertig, Alexander; Grau, Lukas; Altmannsberger,		
mills based on high-frequency machine tool data	Marius; Weigold, Matthias	2021	Title: Process
Tool wear monitoring by ensemble learning and sensor	Nasir, Vahid; Dibaji, Sina; Alaswad, Kareem; Cool, Julie		
fusion using power, sound, vibration, and AE signals	Nasii, Valiiu, Dibaji, Silia, Alaswau, Kareelii, Cooi, Julie	2021	Title: Process
Tool wear monitoring in micromilling using Support Vector	Gomes, Milla Caroline; Brito, Lucas Costa; da Silva,		
Machine with vibration and sound sensors	Marcio Bacci; Viana Duarte, Marcus Antonio	2021	Title: Algorithm
Simulation-based feed rate adaptation considering tool	Denkena, Berend; Dittrich, Marc -Andre; Mainka, Julia		
wear condition	Delikella, Berellu, Dittilcii, Marc -Aliure, Malika, Julia	2020	Title: simulation
Tool wear monitoring in roughing and finishing processes	Xi, Tiandong; Beninca, Igor Medeiros; Kehne,		
based on machine internal data	Sebastian; Fey, Marcel; Brecher, Christian	2021	Title: Algorithm
Trust in artificial intelligence within production management	Sassmannshausen, Till; Burggraef, Peter; Wagner,		
- an exploration of antecedents	Johannes; Hassenzahl, Marc; Heupel, Thomas;		
- an exploration of affectedents	Steinberg, Fabian	2021	Title: Algorithm
Accessing the cutting forces in machining processes: An	Sousa, V; Silva, F. J. G.; Fecheira, J. S.; Lopes, H. M.;		
overview	Martinho, R. P.; Casais, R. B.	2020	Abstract: Review
A Bayesian information fusion approach for end product	Papananias, Moschos; McLeay, Thomas E.; Mahfouf,		
quality estimation using machine learning and on-machine	Mahdi; Kadirkamanathan, Visakan		
probing	Manui, Naui Kamanathan, Visakan	2022	Title: Process
A comparison of four machine learning techniques and			
continuous wavelet transform approach for detection and	Demir, Habibe Gursoy; Yesilyurt, Isa		
classification of tool breakage during milling process		2022	Title: Algorithm
Advances in Machine Learning Detecting Changeover	Engelmann, Bastian; Schmitt, Simon; Miller, Eddi;		
Processes in Cyber Physical Production Systems	Braeutigam, Volker; Schmitt, Jan	2020	Abstract: No DAS for ML
A Customizable Simulator for Artificial Intelligence Research	Kovacs, Benjamin; Tassel, Pierre; Ali, Ramsha; El-		
to Schedule Semiconductor Fabs	Kholany, Mohammed; Gebser, Martin; Seidel, Georg	2022	Title: Process
A deep-learning-based in-situ surface anomaly detection	Kaji, Farzaneh; Nguyen-Huu, Howard; Budhwani,		
methodology for laser directed energy deposition via	Alikasim; Narayanan, Jinoop Arackal; Zimny, Mark;		
powder feeding	Toyserkani, Ehsan	2022	Title: Process
A hybrid deep learning model for robust prediction of the	Rai Long: VII Eai: Chan Viao: Su Vin-Lai Euvao: VII		
dimensional accuracy in precision milling of thin-walled	Bai, Long; Xu, Fei; Chen, Xiao; Su, Xin; Lai, Fuyao; Xu, Jianfeng		
structural components	nameng	2022	Title: Process
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Silarina, Fratibila, Chen, Fao, Flan, Saya, Chung, Feter	2022	Title: Process
Tiwari, Hemant; Kumar, Ramanuj; Panda, Amlana;		
Sahoo, Ashok Kumar; Roy, Soumikh	2019	Title: review
Denkena, Berend; Dittrich, Marc-Andre; Hai Nam		
Nguyen	2018	Title: CAD
Sen, Nuri; Sirin, Senol; Kivak, Turgay; Civek, Tolgahan;		
Secgin, Omer	2022	Title: Process
Adeniji, David; Oligee, Kyle; Schoop, Julius		
	2022	Title: Algorithm
Kasia Fantahun Magasi Bright Clan Walker Anthony		
kasie, Feritanun Woges; Bright, Glen; Walker, Anthony	2016	Title: simulation
Kozjek, Dominik; Vrabic, Rok; Rihtarsic, Borut; Lavrac,		
Nada; Butala, Peter	2020	Full text: Concept
Sekala, A.; Banas, W.; Gwiazda, A.; Monica, Z.; Kost, G.;		
Hryniewicz, P.	2016	Title: robot
Shahin Mahammadi Chan E Franki Rouzani Hamadi		
nossemzaden, Ali, Kasmunar, Kasoui	2022	Title: Algorithm
Wassam Muhammadi Chang Qing		
waseem, Munammau; Chang, Qing	2023	Title: robot
Wu, Pengcheng; Dai, Haicong; Li, Yufeng; He, Yan;		
Zhong, Rui; He, Jinsen	2022	Title: Process
Chan Handana Tana Thinings Cua Thana Than Dina		
chen, Haodong; Teng, Zhiqiang; Guo, Zheng; Zhao, Ping	2020	Abstract: Algorithm
Arinez, Jorge F.; Chang, Qing; Gao, Robert X.; Xu,		
Chengying; Zhang, Jianjing	2020	Abstract: Review
Doerr, Matthias; Spoden, Frederik; Matthiesen, Sven;		
Gwosch, Thomas	2022	Title: Process
Vorl A Chainle I		
ven, A., Stenne, L.	2022	Title: Process
	Sahoo, Ashok Kumar; Roy, Soumikh Denkena, Berend; Dittrich, Marc-Andre; Hai Nam Nguyen Sen, Nuri; Sirin, Senol; Kivak, Turgay; Civek, Tolgahan; Secgin, Omer  Adeniji, David; Oligee, Kyle; Schoop, Julius  Kasie, Fentahun Moges; Bright, Glen; Walker, Anthony Kozjek, Dominik; Vrabic, Rok; Rihtarsic, Borut; Lavrac, Nada; Butala, Peter Sekala, A.; Banas, W.; Gwiazda, A.; Monica, Z.; Kost, G.; Hryniewicz, P.  Shahin, Mohammad; Chen, F. Frank; Bouzary, Hamed; Hosseinzadeh, Ali; Rashidifar, Rasoul  Waseem, Muhammad; Chang, Qing Wu, Pengcheng; Dai, Haicong; Li, Yufeng; He, Yan; Zhong, Rui; He, Jinsen  Chen, Haodong; Teng, Zhiqiang; Guo, Zheng; Zhao, Ping Arinez, Jorge F.; Chang, Qing; Gao, Robert X.; Xu, Chengying; Zhang, Jianjing Doerr, Matthias; Spoden, Frederik; Matthiesen, Sven;	Tiwari, Hemant; Kumar, Ramanuj; Panda, Amlana; Sahoo, Ashok Kumar; Roy, Soumikh  Denkena, Berend; Dittrich, Marc-Andre; Hai Nam Nguyen  Sen, Nuri; Sirin, Senol; Kivak, Turgay; Civek, Tolgahan; Secgin, Omer  Adeniji, David; Oligee, Kyle; Schoop, Julius  2022  Kasie, Fentahun Moges; Bright, Glen; Walker, Anthony  Kozjek, Dominik; Vrabic, Rok; Rihtarsic, Borut; Lavrac, Nada; Butala, Peter  Sekala, A.; Banas, W.; Gwiazda, A.; Monica, Z.; Kost, G.; Hryniewicz, P.  Shahin, Mohammad; Chen, F. Frank; Bouzary, Hamed; Hosseinzadeh, Ali; Rashidifar, Rasoul  2022  Waseem, Muhammad; Chang, Qing  Wu, Pengcheng; Dai, Haicong; Li, Yufeng; He, Yan; Zhong, Rui; He, Jinsen  Chen, Haodong; Teng, Zhiqiang; Guo, Zheng; Zhao, Ping  Arinez, Jorge F.; Chang, Qing; Gao, Robert X.; Xu, Chengying; Zhang, Jianjing  Doerr, Matthias; Spoden, Frederik; Matthiesen, Sven; Gwosch, Thomas

Development and analysis of digital twins of production systems	Overbeck, Leonard; Graves, Stephen C.; Lanza, Gisela	2023	Title: digital twin
AI-Based Surface Roughness Prediction Model for Automated CAM-Planning Optimization	Tonejca (Nee Plessing), Lea; Mauthner, Gernot; Trautner, Thomas; Konig, Valentina; Liemberger, Werner	2022	Title: Process
An approach for process optimisation of the Automated Fibre Placement (AFP) based thermoplastic composites manufacturing using Machine Learning, photonic sensing and thermo-mechanics modelling	Islam, Faisal; Wanigasekara, Chathura; Rajan, Ginu; Swain, Akshya; Prusty, B. Gangadhara	2022	Title: Process
An end-to-end big data analytics platform for IoT-enabled smart factories: A case study of battery module assembly system for electric vehicles	Kahveci, Sinan; Alkan, Bugra; Ahmad, Mus'ab H.; Ahmad, Bilal; Harrison, Robert	2022	Title: Process
A deep learning-enhanced Digital Twin framework for improving safety and reliability in human-robot collaborative manufacturing	Wang, Shenglin; Zhang, Jingqiong; Wang, Peng; Law, James; Calinescu, Radu; Mihaylova, Lyudmila	2024	Title: digital twin
Optimizing 3D printing facility selection for ubiquitous manufacturing using an evolving fuzzy big data analytics approach	Chen, Tin-Chih Toly; Lin, Chi-Wei; Chiu, Min-Chi	2023	Title: 3D
Challenges and countermeasures for digital twin implementation in manufacturing plants: A Delphi study	Saporiti, Nicolo; Cannas, Violetta Giada; Pozzi, Rossella; Rossi, Tommaso	2023	Title: digital twin
Automatic Detection of Manufacturing Equipment Cycles Using Time Series	Seevers, Jan-Peter; Jurczyk, Kristina; Meschede, Henning; Hesselbach, Jens; Sutherland, John W.	2020	Abstract: Algorithm
An IoT-Based Monitoring System for Induction Motor Faults Utilizing Deep Learning Models	Irgat, Eyup; Cinar, Eyup; Unsal, Abdurrahman; Yazici, Ahmet	2022	Title: Process
Application of artificial intelligence technology in the manufacturing process and purchasing and supply management	Kehayov, Mito; Holder, Lukas; Koch, Volker	2022	Title: Process
Data Science for Industry 4.0 and Sustainability: A Survey and Analysis Based on Open Data	Castro, Helio; Costa, Filipe; Ferreira, Tania; avila, Paulo; Cruz-Cunha, Manuela; Ferreira, Luis; Putnik, Goran D.; Bastos, Joao	2023	Title: survey
Application of artificial intelligence to optimize the process parameters effects on tensile properties of Ti-6Al-4V fabricated by laser powder-bed fusion	Maleki, Erfan; Bagherifard, Sara; Guagliano, Mario	2022	Title: Process

Minimum quality lubricant (MQL) for ultraprecision machining of titanium nitride-coated carbide inserts: sustainable Manufacturing process	Uppal, Amrinder Singh; Sharma, Ankit; Babbar, Atul; Singh, Kamaljeet; Singh, Anoop Kumar	2023	Title: sustainab
Application of Industry 4.0 trends in the teaching process	Brazina, Jakub; Stepanek, Vojtech; Holub, Michal; Vetiska, Jan; Bradac, Frantisek	2022	Title: No manufacturing
Big Data Oriented Smart Tool Condition Monitoring System	Zhu, Kunpeng; Li, Guochao; Zhang, Yu	2020	Full text: Concept
Particle-scale computational fluid dynamics study on surface morphology of GH4169 superalloy during multi-laser powder bed fusion with low energy density	Li, Qi; Jiang, Wu-Gui; Qin, Qing-Hua; Tu, Zhi-Xin; Li, Duo- Sheng	2023	Title: fluid
Applying a support vector machine for hollow ball screw condition-based classification using feature extraction	Huang, Yi-Cheng; Hsieh, Yi-Keng	2022	Title: Algorithm
Data-driven Context Awareness of Smart Products in Discrete Smart Manufacturing Systems	Lenza, Juergen; Pelosi, Valerio; Taisch, Marco; MacDonald, Eric; Wuest, Thorsten	2020	Abstract: Process
Case Study: Testing the Overall Efficiency of Equipment in	Pekarcikova, Miriam; Trebuna, Peter; Kliment, Marek;	2023	Title: simulation
the Production Process in TX Plant Simulation Software Artificial Intelligence for Real Time Cluster Tool Scheduling EO: Equipment Optimization	Trojan, Jozef; Kopec, Jan; Dic, Michal; Kronova, Jana Suerich, Doug; McIlroy, Trevor	2023	Title: Process
Big data-oriented wheel position and geometry calculation for cutting tool groove manufacturing based on Al algorithms	Li, Guochao; Liu, Zhigang; Lu, Jie; Zhou, Honggen; Sun, Li	2022	Title: Process
Building supply-chain resilience: an artificial intelligence- based technique and decision-making framework	Belhadi, Amine; Kamble, Sachin; Wamba, Samuel Fosso; Queiroz, Maciel M.	2022	Title: Process
CNC Machine-Bearing Fault Detection Based on Convolutional Neural Network Using Vibration and Acoustic Signal	Iqbal, Mohmad; Madan, A. K.	2022	Title: Process
Data Acquisition Network Configuration and Real-Time Energy Consumption Characteristic Analysis in Intelligent Workshops for Social Manufacturing	Zhang, Chaoyang; Zhang, Juchen; Ji, Weixi; Peng, Wei	2022	Title: energy
Data organization in laser-based powder bed fusion for metals	Feng, Shaw C.; Li, Shengyen; Yakout, Mostafa; Jones, Albert T.	2022	Title: Process
Data-driven prediction of next-layer melt pool temperatures in laser powder bed fusion based on co-axial high-resolution Planck thermometry measurements	Kozjek, Dominik; Carter, Fred M., III; Porter, Conor; Mogonye, Jon-Erik; Ehmann, Kornel; Cao, Jian	2022	Title: Process

Data-Driven Thermal Deviation Prediction in Turning	Ouerhani, Nabil; Loehr, Bernard; Rizzotti-Kaddouri,		
Machine-Tool - A Comparative Analysis of Machine Learning	Aicha; Santo De Pinho, Dylan; Limat, Adrien;		
Algorithms	Schinderholz, Philippe	2022	Title: Process
	Pandiyan, Vigneashwara; Masinelli, Giulio; Claire,		
Deep learning-based monitoring of laser powder bed fusion	Navarre; Tri Le-Quang; Hamidi-Nasab, Milad; de		
process on variable time-scales using heterogeneous sensing	Formanoir, Charlotte; Esmaeilzadeh, Reza; Goel,		
and <i>operando</i> X-ray radiography guidance	Sneha; Marone, Federica; Loge, Roland; Van Petegem,		
	Steven; Wasmer, Kilian	2022	Title: Process
Data-driven framework for the prediction of cutting force in turning	Chatterjee, Kaustabh; Zhang, Jian; Dixit, Uday Shanker	2020	Abstract: Concept
Fault Diagnosis of Timed Event Systems: An Exploration of Machine Learning Methods	Cohen, Joseph; Jiang, Baoyang; Ni, Jun	2020	Abstract: Algorithm
Formation and selection methodology of digital transformations programs for an industrial enterprise using machine learning algorithms	Lukina, S., V; Makarov, V. V.; Dobrolyubova, M. F.; Krutyakova, M., V	2020	Abstract: Algorithm
Detailed design for additive manufacturing and post processing of generatively designed high tibial osteotomy fixation plates	Kanagalingam, Sanjeevan; Dalton, Chris; Champneys, Peter; Boutefnouchet, Tarek; Fernandez-Vicente, Miguel; Shepherd, Duncan E. T.; Wimpenny, David; Thomas-Seale, Lauren E. J.	2023	Title: additive
Intelligent Maintenance Systems and Predictive	Lee, Jay; Ni, Jun; Singh, Jaskaran; Jiang, Baoyang;		
Manufacturing	Azamfar, Moslem; Feng, Jianshe	2020	Full text: Concept
Designing Energy-Efficient Decision Tree Memristor Crossbar Circuits using Binary Classification Graphs	Sinha, Pranav; Raj, Sunny	2022	Title: Algorithm
Parallel computing and network analytics for fast Industrial			
Internet-of-Things (IIoT) machine information processing	Kan, Chen; Yang, Hui; Kumara, Soundar		
and condition monitoring		2018	Abstract: Algorithm
ML Pro: digital assistance system for interactive machine	Neunzig, Christian; Moellensiep, Dennis;		
learning in production	Kuhlenkoetter, Bernd; Moeller, Matthias	2023	Included in investigation
Determination of the Ultimate Tensile Strength (UTS) of			
friction stir welded similar AA6061 joints by using supervised	Mishra, Akshansh; Morisetty, Rakesh		
machine learning based algorithms		2022	Title: Process

Development of a deep learning machining feature recognition network for recognition of four pilot machining	Mohammadi, Naser; Nategh, Mohammad Javad		
features	Monanimaui, Naser, Nategri, Monanimau Javau	2022	Title: Process
Dynamic job shop scheduling based on deep reinforcement	Zhang, Yi; Zhu, Haihua; Tang, Dunbing; Zhou, Tong; Gui,		
learning for multi-agent manufacturing systems	Yong	2022	Title: Process
EML webinar overview: Elastic Strain Engineering for unprecedented properties	Li, Ju	2022	Title: No manufacturing
Knowledge-Based Assisting Tools - Real Life Inspirations	Pokojski, Jerzy; Oleksinski, Konrad; Pruszynski, Jaroslaw; Mazik, Maciej	2020	Full text: Process
Automated Defect Recognition for Additive Manufactured Parts Using Machine Perception and Visual Saliency	Petrich, Jan; Reutzel, Edward W.	2023	Title: additive
Evaluation of the efficiency of an ultrasonic atomization- based coolant (uACF) spray system in external turning using different nozzle tips	Kafkas, Firat	2022	Title: Process
Evaluation of transducer signature selections on machine learning performance in cutting tool wear prognosis	Sun, I-Chun; Cheng, Ren-Chi; Chen, Kuo-Shen	2022	Title: Process
MTouch: an automatic fault detection system for desktop	Aidala, Samuel; Eichenberger, Zachary; Chan, Nicholas;		
FFF 3D printers using a contact sensor	Wilkinson, Kyle; Okwudire, Chinedum	2022	Title: 3D
Experimental validation of machine learning models for			
prediction of the thickness distribution of directionally rolled copper strips under scaling law	Sivam, S. P. Sundar Singh; Rajendran, R.	2022	Title: Process
Filling Missing Surface Roughness Data for Grinding Process Using Physics-Guided Neural Network	Li, Chen; Bhatta, Kshitij; Xiao, Guoxian; Fan, Hua-tzu; Arinez, Jorge; Chang, Qing	2022	Title: Process
Machine learning applied in production planning and control: a state-of-the-art in the era of industry 4.0	Usuga Cadavid, Juan Pablo; Lamouri, Samir; Grabot, Bernard; Pellerin, Robert; Fortin, Arnaud	2020	Abstract: Review
Multi-task Gaussian process upper confidence bound for hyperparameter tuning and its application for simulation studies of additive manufacturing	Shen, Bo; Gnanasambandam, Raghav; Wang, Rongxuan; Kong, Zhenyu James	2023	Title: additive
Forecasting Construction Project Performance with	Ezzeddine, Ali; Shehab, Lynn; Lucko, Gunnar; Hamzeh,		
Momentum Using Singularity Functions in LPS	Farook	2022	Title: Process
Faster than real-time path-sensitive temperature modeling of wire-arc additive manufacturing by a data-driven finite volume method	Bambach, Markus; Sideris, Iason; Fabbri, Maicol; Wegener, Konrad	2022	Title: additive

Forecasting Repair and Maintenance Services of Medical			
Devices Using Support Vector Machine	Liao, Hao-yu; Cade, Willie; Behdad, Sara	2022	Title: Algorithm
Fracture strength of Graphene at high temperatures: data		2022	Title. Algorithm
driven investigations supported by MD and analytical	Siruvuri, S. D. V. S. S. Varma; Verma, H.; Javvaji, B.;		
1	Budarapu, P. R.	2022	Title: Process
approaches		2022	Title. Flocess
Health Monitoring of Milling Tools under Distinct Operating	Suawa, Priscile Fogou; Huebner, Michael	2022	Title, health
Conditions by a Deep Convolutional Neural Network model	Mary Lauri Circura Conta Circle and On alliani	2022	Title: health
Gaussian process regression-based detection and correction	Maculotti, Giacomo; Genta, Gianfranco; Quagliotti,	2022	Title: Dueses
of disturbances in surface topography measurements	Danilo; Galetto, Maurizio; Hansen, Hans N.	2022	Title: Process
Milling diagnosis using artificial intelligence approaches	Knittel, Dominique; Makich, Hamid; Nouari,	2020	
	Mohammed	2020	Abstract: Process
Generative modelling of laser beam welded Inconel 718 thin			
weldments using ANFIS based hybrid algorithm	Manikandan; Raju, Ramesh	2022	Title: Process
Graph neural network and multi-agent reinforcement			
learning for machine-process-system integrated control to	Huang, Jing; Su, Jianyu; Chang, Qing		
optimize production yield		2022	Title: Process
Heterogeneous demand-capacity synchronization for smart	Ling, Shiquan; Guo, Daqiang; Li, Mingxing; Rong,		
assembly cell line based on artificial intelligence-enabled	Yiming; Huang, George Q.	2022	Title: Process
Al and PD in Process Industry: A Literature Poview with an	Fornasiero, Rosanna; Nettleton, David F.; Kiebler,		
All and BD in Process Industry: A Literature Review with an	Lorenz; Martinez de Yuso, Alicia; De Marco, Chiara		
Operational Perspective	Eleonora	2021	Title: process industry
Hybrid Quantum-Classical Machine Learning for Lithography	Vone Vuen Fur Cun Min		
Hotspot Detection	Yang, Yuan-Fu; Sun, Min	2022	Title: Process
Application of Artificial Intelligence in Incremental Sheet	U. Ch. A Hh. K. ID. Tehet Alt		
Metal Forming: A Review	Harfoush, Asmaa; Haapala, Karl R.; Tabei, Ali	2021	Title: review
MLCP: A Framework Integrating with Machine Learning and	7h ann Lian Kahamahi Walahi Tabahahi Wali		
Optimization for Planning and Scheduling in Manufacturing	Zheng, Jian; Kobayashi, Yuichi; Takahashi, Yoshiyasu;		
and Services	Yanagida, Takashi; Sato, Tatsuhiro; Hitaka, Daiji	2020	Full text: Concept
Computer simulation and optimisation of material handling			·
systems	Leung, Chris Siu Kei; Lau, Henry Ying Kei	2021	Title: simulation
In-process acoustic pore detection in milling using deep	Gauder, Daniel; Biehler, Michael; Goelz, Johannes;		
learning	Schulze, Volker; Lanza, Gisela	2022	Title: Process

Optimizing smart manufacturing systems by extending the	Lenz, Juergen; MacDonald, Eric; Harik, Ramy; Wuest,		
smart products paradigm to the beginning of life	Thorsten	2020	Abstract: Process
Assessment of a Machine-Learnt Adaptive Wall-Function in a	Tieghi, Lorenzo; Corsini, Alessandro; Delibra, Giovanni;		
Compressor Cascade With Sinusoidal Leading Edge	Angelini, Gino	2020	Title: CAD
Prediction of surface roughness in CNC turning by model- assisted response surface method	Misaka, Takashi; Herwan, Jonny; Ryabov, Oleg; Kano, Seisuke; Sawada, Hiroyuki; Kasashima, Nagayoshi; Furukawa, Yoshiyuki	2020	Abstract: Algorithm
Knowledge-Based Adaptation of Product and Process Design	Ganser, Philipp; Landwehr, Markus; Schiller, Sven;		
in Blisk Manufacturing	Vahl, Christopher; Mayer, Sebastian; Bergs, Thomas	2022	Title: Process
Lessons Learned from Industrial Augmented Reality	Stuebl, Gernot; Ebenhofer, Gerhard; Bauer, Harald;		
Applications	Pichler, Andreas	2022	Title: No relation to ML
Long Short-Term Memory-Based Cutting Depth Monitoring System for End Milling Operation	Vaishnav, Shubham; Desai, K. A.	2022	Title: Algorithm
Machine Learning Algorithms for Forest Stand Delineation	Legdou, Anass; Amine, Aouatif; Lahssini, Said; Chafik,		
Using Yearly Sentinel 2MSI Time Series	Hassan; Berada, Mohamed	2022	Title: Algorithm
Machine Learning Architecture Evaluation for Fast and Accurate Weak Point Detection	Tellakula, Suraag Sunil; Schroeder, Uwe Paul; Bakshi, Janam; Selvam, Punitha; Batarseh, Fadi; Rezaeifakhr, Pouya; Madhavan, Sriram	2022	Title: Process
Machine Learning based error classification for curvilinear designs	Yin, Lianghong; Shang, Shumay; Jiang, Fan; Hong, Le; Chia, Robin; Opitz, Juli; Adam, Paul; Stobert, Ian; Koh, Yee Wee	2022	Title: Process
IN2Dig-Implementation of a Digital Manufacturing System in			
a Production Cell of the Metal Mold Industry: From Planning to Action	Piedade, Fernando; Baptista, Marcia; Chaves, Paulo	2020	Title: 2D
Process monitoring for quality-a feature selection method	Diaz, Carlos A. Escobar; Arinez, Jorge; Arregoyta,		
for highly unbalance data	Daniela Macias; Morales-Menendez, Ruben	2022	Abstract: Algorithm
Machine learning based inverse design of complex microstructures generated via hierarchical wrinkling	Saha, Sourabh K.	2022	Title: Process
Machine learning enables national assessment of wind plant controls with implications for land use	Harrison-Atlas, Dylan; King, Ryan N.; Glaws, Andrew	2022	Title: Process
Quality monitoring of complex manufacturing systems on the basis of model driven approach	Castano, Fernando; Haber, Rodolfo E.; Mohammed, Wael M.; Nejman, Miroslaw; Villalonga, Alberto; Lastra, Jose L. Martinez	2020	Abstract: Process

Recent Advancements in Machining With Abrasives	Guo, Changsheng; Shi, Zhongde; Mullany, Brigid; Linke, Barbara; Yamaguchi, Hitomi; Chaudhari, Rahul; Hucker, Scott; Shih, Albert	2020	Abstract: Review
Machine learning modeling using process context and the exposure data for overlay prediction	Wang, Wei-Hung; Brinster, Irina; Maniat, Mohsen; Anis, Fatima; Lee, Yen Hui; Bosese, Sven; Tseng, C. F.; Chu, Wei Yuan; Habets, Boris; Huang, C. H.; Yang, Elvis; Yang, T. H.; Chen, K. C.	2022	Title: Process
Development and Testing of a Combined Machine and	Dominguez-Caballero, Javier; Stammers, Jon; Moore,		
Process Health Monitoring System	James	2019	Title: health
RETRACTED: A Framework for Big Data Driven On-Line Monitoring of Tool Wear (Retracted Article)	Gui, Yong; Leng, Sheng; Dai, Zhiqiang; Wu, Jiyuan	2020	No access
Machine learning-based model for detecting uneven wear and temperature deviation events in hot forging process	Wu, Tsung-Liang; Hwang, Yu-Chun; Zhang, Wei-Xun	2022	Title: Process
Machine tool process monitoring by segmented timeseries anomaly detection using subprocess-specific thresholds	Netzer, Markus; Palenga, Yannic; Fleischer, Juergen	2022	Title: Algorithm
Self-optimizing machining systems	Moehring, H-C; Wiederkehr, P.; Erkorkmaz, K.; Kakinuma, Y.	2020	Abstract: Review
Model-based contour extraction: an enabler for very low-frame SEM images metrology	Sezestre, Elie; Scoarnec, Juline; Pradelles, Jonathan; Perraud, Loic; Fay, Aurelien; Berard-Bergery, Sebastien; Bustos, Jessy; Henry, Jean-Baptiste; Dubreuil, Olivier; Mendes, Ivanie; Valade, Charles; Moly, Alexandre; Batte, Alice; Schuch, Nivea; Robert, Frederic; Figueiro, Thiago	2022	Title: Process
Realization of System Robustness by Clustering to Predict New Product Performance Levels	Eddy, Douglas; Krishnamurty, Sundar; Grosse, Ian	2021	Abstract: Algorithm
Numerical modeling based machine learning approach for the optimization of falling- film evaporator in thermal desalination application	Shahane, Shantanu; Jin, Hong-Qing; Wang, Sophie; Nawaz, Kashif	2022	Title: Process
Real-Time Outlier Detection and Bayesian Classification using Incremental Computations for Efficient and Scalable Stream Analytics for IoT for Manufacturing	Parto, Mahmoud; Saldana, Christopher; Kurfess, Thomas	2020	Abstract: Algorithm
Physics-informed ensemble learning for online joint strength prediction in ultrasonic metal welding	Meng, Yuquan; Shao, Chenhui	2022	Title: Process

Predicting the yield of stepped corrugated solar distiller using kernel-based machine learning models	Zayed, Mohamed E.; Katekar, Vikrant P.; Tripathy, Rajesh Kumar; Deshmukh, Sandip S.; Elsheikh, Ammar H.	2022	Title: Process
Predictive maintenance on sensorized stamping presses by time series segmentation, anomaly detection, and classification algorithms	Coelho, Daniel; Costa, Diogo; Rocha, Eugenio M.; Almeida, Duarte; Santos, Jose P.	2022	Title: Algorithm
Predictive Modeling for Machining Power Based on Multi- source Transfer Learning in Metal Cutting	Kim, Young-Min; Shin, Seung-Jun; Cho, Hae-Won	2022	Title: Process
Smart Use Case Picking with DUCAR: A Hands-On Approach for a Successful Integration of Machine Learning in Production Processes	Schaefer, Franziska; Mayr, Andreas; Schwulera, Erik; Franke, Joerg	2020	Full text: Concept
Standard connections for IIoT empowered smart manufacturing	Lu, Yan; Witherell, Paul; Jones, Albert	2020	Abstract: Review
HG-CAD: Hierarchical Graph Learning for Material Prediction and Recommendation in Computer-Aided Design	Bian, Shijie; Grandi, Daniele; Liu, Tianyang; Jayaraman, Pradeep Kumar; Willis, Karl; Sadler, Elliot; Borijin, Bodia; Lu, Thomas; Otis, Richard; Ho, Nhut; Li, Bingbing	2024	Title: CAD
The architecture development of Industry 4.0 compliant smart machine tool system (SMTS)	Jeon, Byeongwoo; Yoon, Joo-Sung; Um, Jumyung; Suh, Suk-Hwan	2020	Full text: Concept
Machine learning for forecasting the biomechanical behavior of orthopedic bone plates fabricated by fused deposition modeling	Sharma, Shrutika; Gupta, Vishal; Mudgal, Deepa; Srivastava, Vishal	2024	Title: bio
Regularized Autoencoder for The Analysis of Multivariate Metrology Data	Saib, Mohamed; Lorusso, Gian Francesco; Charley, Anne-Laure; Leraya, Philippe; Kondo, Tsuyoshi; Shindo, Hiroyuki; Ebizuka, Yasushi; Ban, Naoma; Ikota, Masami	2022	Title: Process
Remaining useful lifetime estimation for metal-bonded grinding tools using hybrid machine learning	Sauter, Emil; Sun, Hanyu; Winter, Marius; Wegener, Konrad	2022	Title: Process
Roles of Eco-Friendly Non-Edible Vegetable Oils in Drilling Inconel 718 through Minimum Quantity Lubrication	Safie, Nur Syahilia Syahira; Murad, Muhamad Nasir; Lih, Tan Chye; Azmi, Azwan Iskandar; Hamzah, Wan Azmi Wan; Danish, Mohd	2022	Title: Process
Rule-based visualization of faulty process conditions in the die-casting manufacturing	Obregon, Josue; Jung, Jae-Yoon	2022	Title: Process

Qiu, Chaochao; Li, Kai; Li, Bin; Mao, Xinyong; He, Songping; Hao, Caihua; Yin, Ling	2022	Title: Algorithm
Parto, Mahmoud; Han, Dongmin; Rauby, Pierrick; Ye, Chong; Zhou, Yuanlai; Chau, Duen Horng; Kurfess, Thomas	2019	Abstract: Process
Resendiz-Flores, Edgar O.; Navarro-Acosta, Jesus Alejandro; Garcia-Calvillo, Irma D.	2022	Title: Algorithm
Naser, Ahmed Z.; Defersha, Fantahun; Xu, Xun; Yang, Sheng	2023	Title: additive
Wang, Hao; Al Shraida, Hamzeh; Jin, Yu	2023	Title: additive
Contuzzi, Nicola; Massaro, Alessandro; Manfredonia, Ivano; Galiano, Angelo; Xhahysa, Benny	2019	Full text: Concept
Kubik, Christian; Knauer, Sebastian Michael; Groche, Peter		
	2022	Title: Algorithm
Xu, Zhicheng; Selvaraj, Vignesh; Min, Sangkee	2022	Title: Process
Chigilipalli, Bharat Kumar; Veeramani, Anandakrishnan	2023	Title: additive
Wolf, Hergen; Lorenz, Rafael; Kraus, Mathias; Feuerriegel, Stefan; Netland, Torbjorn H.	2019	Abstract: Concept
Zegarra, Fabio C.; Vargas-Machuca, Juan; Coronado, Alberto M.	2022	Title: Algorithm
Molfino, Rezia; Cepolina, Francesco E.; Cepolina, Emanuela; Cepolina, Elvezia Maria; Cepolina, Sara	2023	Title: robot
	Songping; Hao, Caihua; Yin, Ling Parto, Mahmoud; Han, Dongmin; Rauby, Pierrick; Ye, Chong; Zhou, Yuanlai; Chau, Duen Horng; Kurfess, Thomas Resendiz-Flores, Edgar O.; Navarro-Acosta, Jesus Alejandro; Garcia-Calvillo, Irma D.  Naser, Ahmed Z.; Defersha, Fantahun; Xu, Xun; Yang, Sheng  Wang, Hao; Al Shraida, Hamzeh; Jin, Yu  Contuzzi, Nicola; Massaro, Alessandro; Manfredonia, Ivano; Galiano, Angelo; Xhahysa, Benny  Kubik, Christian; Knauer, Sebastian Michael; Groche, Peter  Xu, Zhicheng; Selvaraj, Vignesh; Min, Sangkee  Chigilipalli, Bharat Kumar; Veeramani, Anandakrishnan  Wolf, Hergen; Lorenz, Rafael; Kraus, Mathias; Feuerriegel, Stefan; Netland, Torbjorn H.  Zegarra, Fabio C.; Vargas-Machuca, Juan; Coronado, Alberto M.  Molfino, Rezia; Cepolina, Francesco E.; Cepolina,	Songping; Hao, Caihua; Yin, Ling  Parto, Mahmoud; Han, Dongmin; Rauby, Pierrick; Ye, Chong; Zhou, Yuanlai; Chau, Duen Horng; Kurfess, Thomas  Resendiz-Flores, Edgar O.; Navarro-Acosta, Jesus Alejandro; Garcia-Calvillo, Irma D.  Naser, Ahmed Z.; Defersha, Fantahun; Xu, Xun; Yang, Sheng  Wang, Hao; Al Shraida, Hamzeh; Jin, Yu  Contuzzi, Nicola; Massaro, Alessandro; Manfredonia, Ivano; Galiano, Angelo; Xhahysa, Benny  Kubik, Christian; Knauer, Sebastian Michael; Groche, Peter  Zu22  Xu, Zhicheng; Selvaraj, Vignesh; Min, Sangkee  Chigilipalli, Bharat Kumar; Veeramani, Anandakrishnan  Wolf, Hergen; Lorenz, Rafael; Kraus, Mathias; Feuerriegel, Stefan; Netland, Torbjorn H.  Zegarra, Fabio C.; Vargas-Machuca, Juan; Coronado, Alberto M.  2022  Molfino, Rezia; Cepolina, Francesco E.; Cepolina,

Toward smart manufacturing: Analysis and classification of cutting parameters and energy consumption patterns in turning processes	Ragai, Ihab; Abdalla, Abdallah S.; Abdeltawab, Hussein; Qian, Feng; Ma, J.	2022	Title: energy
Towards a machine learning-aided metaheuristic framework for a production/distribution system design problem	Xiao, Zhifeng; Zhi, Jianing; Keskin, Burcu B.	2022	Title: Process
Digital Twinning and Optimization of Manufacturing Process Flows	Lee, Hankang; Yang, Hui	2023	Title: digital twin
Towards a smart workflow in CMMS/EAM systems: An approach based on ML and MCDM	Gorski, Ewerton Gusthavo; Rocha Loures, Eduardo de Freitas; Portela Santos, Eduardo Alves; Kondo, Ricardo Eiji; Del Negro Martins, Giovana Regina	2022	Title: Process
Predicting Sintering Window of Binder Jet Additively Manufactured Parts Using a Coupled Data Analytics and CALPHAD Approach	Kannan, Rangasayee; Nandwana, Peeyush	2023	Title: additive
Towards Knowledge-Based System to Support Smart Manufacturing Processes in Aerospace Industry Based on Models for Manufacturing (MfM)	Szejka, Anderson Luis; Mas, Fernando; Canciglieri Junior, Osiris	2022	Title: Process
Towards real-time in-situ monitoring of hot-spot defects in L-PBF: a new classification-based method for fast video-imaging data analysis	Bugatti, Matteo; Colosimo, Bianca Maria	2022	Title: Process
Complexity Management in Production Systems: Approach for Supporting Problem Solving Through Holistic Structural Consideration	Horler, Samuel; Riedel, Ralph; Mueller, Egon	2019	Abstract: Concept
Transfer Learning-based SAE-CNN for Industrial Data Processing in Multiple working Conditions Recognition	Zhu, Yumeng; Zi, Yanyang; Xu, Jing	2022	Title: Algorithm
Conceptual Framework for manufacturing data preprocessing of diverse input sources	Flick, Dominik; Gellrich, Sebastian; Filz, Marc-Andre; Ji, Li; Thiede, Sebastian; Herrmann, Christoph	2019	Abstract: Concept
A comparative study of basic and ensemble artificial intelligence models for surface roughness prediction during the AA7075 milling process	Gabsi, Abd El Hedi; Ben Aissa, Chokri; Mathlouthi, Safa	2023	Title: Process
A deep learning based sensor fusion method to diagnose tightening errors	Tang, Lifei; Feng, Lei; Axelsson, Toni; Toerngren, Martin; Wilkman, Dennis	2023	Title: Process
A deep learning framework for defect prediction based on thermographic in-situ monitoring in laser powder bed fusion	Oster, Simon; Breese, Philipp P. P.; Ulbricht, Alexander; Mohr, Gunther; Altenburg, Simon J. J.	2023	Title: Process

Sonics: develop intuition on biomechanical systems through	Mazier, Arnaud; El Hadramy, Sidaty; Brunet, Jean-		
interactive error controlled simulations	Nicolas; Hale, Jack S.; Cotin, Stephane; Bordas,		
	Stephane P. A.	2023	Title: bio
A design of experiments Cyber-Physical System for energy	Pantazis, Dimitrios; Pease, Sarogini Grace; Goodall,		
modelling and optimisation in end-milling machining	Paul; West, Andrew; Conway, Paul	2023	Title: Process
A Framework for Predicting Grain Morphology during	Harfoush, Asmaa; Tabei, Ali; Haapala, Karl R.;		
Incremental Sheet Metal Forming using Generative	Ghamarian, Iman		
Adversarial Networks	Ghamaran, man	2023	Title: Algorithm
A machine learning methodology for porosity classification	Staszewska, Adrianna; Patil, Deepali P.; Dixith,		
and process map prediction in laser powder bed fusion	Akshatha C.; Neamtu, Rodica; Lados, Diana A.	2023	Title: Process
Flexibility management and decision making in cyber-	Ulhe, Praful P.; Dhepe, Aditya D.; Shevale, Vaibhav		
physical systems utilizing digital lean principles with Brain-	Devidas; Warghane, Yash S.; Jadhav, Prayag S.;		
inspired computing pattern recognition in Industry 4.0	Babhare, Success L.	2023	Title: lean
A multi-agent based big data analytics system for viable	Zekhnini, Kamar; Benabdellah, Abla Chaouni; Cherrafi,		
supplier selection	Anass	2023	Title: Process
A neural network approach to performance analysis of	Dioloman N. A. Barkhaut L. Haidargatt B		
tandem lines: The value of analytical knowledge	Dieleman, N. A.; Berkhout, J.; Heidergott, B.	2023	Title: Process
A New Approach to Study the Effect of Complexity on an	Azeez, Abid Abdul; Mazzei, Pietro; Minav, Tatiana;		
External Gear Pump Model to Generate Data Source for Al-			
Based Condition Monitoring Application	Frosina, Emma; Senatore, Adolfo	2023	Title: Product
MOMIS Dashboard: A Powerful Data Analytics Tool for	Magnotta, Luca; Gagliardelli, Luca; Simonini, Giovanni;		
Industry 4.0	Orsini, Mirko; Bergamaschi, Sonia	2018	Included in investigation
Data analytics-based decision support workflow for high-mix	Godri, Istvan; Kardos, Csaba; Pfeiffer, Andras; Vancza,		
low-volume production systems	Jozsef	2019	Abstract: Concept
A novel ant colony-optimized extreme gradient boosting			
machine for estimating compressive strength of recycled	Hoang, Nhat-Duc		
aggregate concrete		2023	Title: Algorithm
Development of a new framework for implementing	Dancer David Swin		
industry 4.0 in companies	Dossou, Paul-Eric	2019	Abstract: Review
Development of an Intelligent Tool Condition Monitoring			
System to Identify Manufacturing Tradeoffs and Optimal	Lee, Wo Jae; Mendis, Gamini P.; Sutherland, John W.		
Machining Conditions		2019	Abstract: Algorithm

Framework for Customized, Machine Learning Driven	Hinz, Marcin; Brueggemann, Dominik; Bracke, Stefan		
Condition Monitoring System for Manufacturing	Times, trial city, bracessermanny, bottom, bracine, breath,	2019	Full text: Concept
Accelerated In Situ Inspection of Release Coating and Tool	Schoenholz, Caleb; Li, Shuangshan; Bainbridge, Kyle;		
Surface Condition in Composites Manufacturing Using	Huynh, Vy; Gray, Alex; Zobeiry, Navid		
Global Mapping, Sparse Sensing, and Machine Learning	ridyini, vy, dray, Alex, Zoben y, Navid	2023	Title: Process
Development of a cyber physical production system	Kumar, Rishi; Sangwan, Kuldip Singh; Herrmann,		
framework for smart tool health management	Christoph; Ghosh, Rishi	2023	Title: health
At heard inspection of the gives of machine tools	Demetgul, Mustafa; Wang, Wei; Fleischer, Juergen;		
Al-based inspection of the axes of machine tools	Tansel, Ibrahim Nur	2023	Title: Process
AI modeling for high-fidelity heat transfer and thermal	Dall Amit Kumar, Dasak Amrita		
distortion forecast in metal additive manufacturing	Ball, Amit Kumar; Basak, Amrita	2023	Title: additive
AI-guided optimization of manufacturing protocols for AHSS	The Deisele Datus Dundin K. Cuivestave Askali K		
coils	Jha, Rajesh; Patra, Pradip K.; Srivastava, Ashok K.	2023	Title: Product
An approach for tool wear prediction using customized	Liv Visuli 7hana Davon Li Vvahina Liv Channa		
DenseNet and GRU integrated model based on multi-sensor	Liu, Xianli; Zhang, Bowen; Li, Xuebing; Liu, Shaoyang;		
feature fusion	Yue, Caixu; Liang, Steven Y.	2023	Title: Algorithm
An artificial intelligence classifier for electron beam powder	Maculotti, Giacomo; Ghibaudo, Cristian; Genta,		
bed fusion as-built surface topographies	Gianfranco; Ugues, Daniele; Galetto, Maurizio	2023	Title: Process
An artificial intelligence transformation model - pod	Fan, Shu-Kai S.; Chen, Ming-Shen; Hsu, Chia-Yu; Park,		
redesign of photomasks in semiconductor manufacturing	You-Jin	2023	Title: Process
Integration Challenges for the Deployment of a Multi-Stage	Angione, Giacomo; Cristalli, Cristina; Barbosa, Jose;		
Zero-Defect Manufacturing Architecture	Leitao, Paulo	2019	Abstract: Review
An intelligent milling chatter detection method based on	Jauhari Khairul, Dahman Ashmad Zaki, Al Huda		
VMD-synchro-squeeze wavelet and transfer learning via	Jauhari, Khairul; Rahman, Achmad Zaki; Al Huda,		
deep CNN with vibration signals	Mahfudz; Widodo, Achmad; Prahasto, Toni	2023	Title: Algorithm
Intelligent decision support for maintenance: an overview	Turner, C. J.; Emmanouilidis, C.; Tomiyama, T.; Tiwari,		
and future trends	A.; Roy, R.	2019	Abstract: Review
An overview of progress, challenges, needs and trends in	Chan Chang Dan Zhangli		
mathematical modeling approaches in food drying	Chen, Chang; Pan, Zhongli	2023	Title: Process
Physics-Constrained Neural Networks with Minimax			
Architecture for Multiphysics Dendritic Growth Problems in	Liu, Dehao; Wang, Yan		
Additive Manufacturing		2023	Title: additive

Application of a neural network for predicting cutting	Sebencie A. Coore M. Biodinavellor K. D. Liouvald M.		
surface quality of punching processes based on tooling	Schenek, A.; Goerz, M.; Riedmueller, K. R.; Liewald, M.	2023	Title: Process
Application of machine learning for fleet-based condition monitoring of ball screw drives in machine tools	Denkena, Berend; Dittrich, Marc-Andre; Noske, Hendrik; Lange, Dirk; Benjamins, Carolin; Lindauer, Marius	2023	Title: Process
Artificial intelligence algorithms for prediction of the ultimate tensile strength of the friction stir welded	Mishra, Akshansh	2023	Title: Product
Physics-based cooperative robotic digital twin framework for contactless delivery motion planning	Lee, Hyunsoo	2023	Title: digital twin
Artificial intelligence-based springback compensation of EV motor component	Choi, Hyunsung; Kwon, Yongnam; Cho, Joon Ho; Yoon, Jeong Whan	2023	Title: Product
Automated assembly of non-rigid objects	Makris, Sotiris; Dietrich, Franz; Kellens, Karel; Hu, S. Jack	2023	Title: Process
KPI-ML based integration of industrial information systems	Ashhal, Muhammad Tahir; Mahmoodpour, Mehdi; Lobov, Andrei	2019	Abstract: No relation to ML
Digital twins for the rapid startup of manufacturing processes: a case study in PVC tube extrusion	Bovo, Enrico; Sorgato, Marco; Lucchetta, Giovanni	2023	Title: digital twin
Bayesian diagnostic learning for a costly composite manufacturing: critical role of dataset size and auxiliary in situ measurements	Crawford, Bryn; Ramezankhani, Milad; Milani, Abbas S. S.	2023	Title: Process
Bearing Fault Diagnosis in CNC Machine Using Hybrid Signal Decomposition and Gentle AdaBoost Learning	Iqbal, Mohmad; Madan, A. K.	2023	Title: Algorithm
In-situ porosity prediction in metal powder bed fusion additive manufacturing using spectral emissions: a priorguided machine learning approach	Atwya, Mohamed; Panoutsos, George	2023	Title: additive
Tool life prediction via SMB-enabled monitor based on BPNN coupling algorithms for sustainable manufacturing	Chang, Wen-Yang; Hsu, Bo-Yao	2023	Title: sustainab
Building digital-twin virtual machining for milling chatter detection based on VMD, synchro-squeeze wavelet, and pretrained network CNNs with vibration signals	Jauhari, Khairul; Rahman, Achmad Zaki; Al Huda, Mahfudz; Widodo, Achmad; Prahasto, Toni	2023	Title: digital twin
Cloud-based thermal error compensation with a federated learning approach	Stoop, Fabian; Mayr, Josef; Sulz, Clemens; Kaftan, Petr; Bleicher, Friedrich; Yamazaki, Kazuo; Wegener, Konrad	2023	Title: Process

Machine learning for assistance systems: pattern-based	Fullen, Marta; Maier, Alexander; Nazarenko, Arthur;		
approach to online step recognition	Aksu, Volkan; Jenderny, Sascha; Roecker, Carsten	2019	Full text: Process
Machine Learning in Production - Potentials, Challenges and Exemplary Applications	Mayr, Andreas; Kisskalt, Dominik; Meiners, Moritz; Lutz, Benjamin; Schaefer, Franziska; Seidel, Reinhardt; Selmaier, Andreas; Fuchs, Jonathan; Metzner, Maximilian; Blank, Andreas; Franke, Joerg	2019	Abstract: Review
Offline digital twin for simulation and assessment of product surface quality	Ahmed, Yassmin Seid; ElMaraghy, Hoda	2023	Title: digital twin
Machining Chatter Prediction Using a Data Learning Model	Cherukuri, Harish; Perez-Bernabeu, Elena; Selles, Miguel; Schmitz, Tony	2019	Abstract: Algorithm
Functional Requirements of Software Tools for Laser-Based Powder Bed Fusion Additive Manufacturing for Metals	Feng, Shaw C.; Moges, Tesfaye; Park, Hyunseop; Yakout, Mostafa; Jones, Albert T.; Ko, Hyunwoong; Witherell, Paul	2023	Title: additive
Data quality evaluation for smart multi-sensor process monitoring using data fusion and machine learning algorithms	Segreto, Tiziana; Teti, Roberto	2023	Title: Process
Data-driven prediction of geometry- and toolpath sequence- dependent intra-layer process conditions variations in laser powder bed fusion	Kozjek, Dominik; Porter, Conor; Carter III, Fred M.; Mogonye, Jon-Erik; Cao, Jian	2023	Title: Process
Design and development of mixed integer programming model for scheduling tasks through artificial intelligence	Alla, Venkata Ranga Surya Prasad; Medikondu, Nageswara Rao; Kanakavalli, Prakash Babu; Ravulapalli, Vijaya Prakash	2023	Title: Algorithm
Development of a Vision-based Automated Hole Assembly	Kim, Doowon; TabkhPaz, Majid; Park, Simon S.; Lee,		
System with Quality Inspection	Jihyun	2023	Title: Process
Development of Extractor-Classifier-Regulator integrated anomaly detection model for turning process	Murakoshi, Tomohiro; Oshida, Taisuke; Zhou, Libo; Ojima, Hirotaka; Kaneko, Kazuki; Onuki, Teppei; Shimizu, Jun	2023	Title: Process
Artificial Neural Network-Based Predictive Model for Finite	Grozav, Sorin D.; Sterca, Alexandru D.; Kocisko, Marek;		
Element Analysis of Additive-Manufactured Components	Pollak, Martin; Ceclan, Vasile	2023	Title: additive
Directed Gaussian process metamodeling with improved firefly algorithm (iFA) for composite manufacturing uncertainty propagation analysis	Ball, Amit Kumar; Zhou, Kai; Xu, Dong; Zhang, Dianyun; Tang, Jiong	2023	Title: Algorithm

	Consum Burnelou D. Karbuta Bhilliu Cianana Eduia D.		
Contributions of porosity and laser parameter drift to inter-	Croom, Brendan P.; Koshute, Phillip; Gienger, Edwin B.;		
build variation of mechanical properties in additively	Mccue, Ian D.; Peitsch, Christopher; Mines, John Mark;		
manufactured 316 L stainless steel	Price, Samuel; Carter, Ryan; Mueller, Robert K.;	2022	Tial according to
	Rettaliata, Justin; Presley, Michael	2023	Title: additive
Discovery of fault-introducing tool groups with a numerical association rule mining method in a printed circuit board	Lee, Yeonju; Kim, Youngju; Lee, Bogyeong; Kim, Chang Ouk		
production line		2023	Title: Process
   Early detection of tool wear in electromechanical broaching	Aldekoa, Inigo; del Olmo, Ander; Sastoque-Pinilla,		
machines by monitoring main stroke servomotors	Leonardo; Sendino-Mouliet, Sara; Lopez-Novoa, Unai;		
, , , , , , , , , , , , , , , , , , ,	de Lacalle, Luis Norberto Lopez	2023	Title: Product
AI-Based Knowledge Extraction from the Bioprinting	Bonatti, Amedeo Franco; Chiarello, Filippo; Vozzi,		
Literature for Identifying Technology Trends	Giovanni; De Maria, Carmelo	2023	Title: bio
Edge Computing-Assisted IoT Framework With an	Yu, Wenjin; Liu, Yuehua; Dillon, Tharam; Rahayu,		
Autoencoder for Fault Detection in Manufacturing	Wenny		
Predictive Maintenance	Weility	2023	Title: Algorithm
Cement kiln safety and performance improvement based on	Benchekroun, Mohammed Toum; Zaki, Smail;		
machine learning predictive analytics	Aboussaleh, Mohamed	2023	Title: safety
Evaluation of response characteristics using sensitivity	Chakraborty, Sadananda; Mitra, Souren; Bose,		
analysis and TLBO technique of powder mixed wire EDM of	Dipankar		
Ti6Al4V alloy	Бірапкаі	2023	Title: Process
Experimental analysis of tool geometry and tool rotation in	Kumar Danyaan Cingh Hari		
SPIF process on AA7075-O alloy using ML and ANN approach	Kumar, Parveen; Singh, Hari	2023	Title: Algorithm
Explainable few-shot learning for online anomaly detection	Meng, Yuquan; Lu, Kuan-Chieh; Dong, Zhiqiao; Li,		
in ultrasonic metal welding with varying configurations	Shichen; Shao, Chenhui	2023	Title: Process
	Ramakrishna, Seeram; Zhang, Tong-Yi; Lu, Wen-Cong;		
Materials informatics	Qian, Quan; Low, Jonathan Sze Choong; Yune, Jeremy		
iviaterials informatics	Heiarii Ronald; Tan, Daren Zong Loong; Bressan,		
	Stephane; Sanvito, Stefano; Kalidindi, Surya R.	2019	Abstract: No relation to ML
Flow State at Impeller Inlet: Optimization of Conical Frustum	Yan, Tianxu; Qiu, Baoyun; Yuan, Jianping; Pavesi,		
Section of Elbow Inlet Conduit in Large Low-Lift Pump	Giorgio; Zhao, Fangling; Wang, Huijie	2023	Title: Process
Holistic Approach Promotes Failure Prevention of Smart	Martinsen, Madeleine; Fentaye, Amare Desalegn;		
Mining Machines Based on Bayesian Networks	Dahlquist, Erik; Zhou, Yuanye	2023	Title: Algorithm

Onen Assess Digital Tools! Application Detential in			
Open Access Digital Tools' Application Potential in	Wdowik, Roman; Ratnayake, R. M. Chandima	2019	Abstract: Concept
Technological Process Planning: SMMEs Perspective	Unana Vinina Bharib Caadia Madinaadii Luia	2019	Abstract: Concept
Semantic Interoperability of Digital Twins: Ontology-based	Huang, Yining; Dhouib, Saadia; Medinacelli, Luis	2022	Tinle, distrelativity
Capability Checking in AAS Modeling Framework	Palacios; Malenfant, Jacques	2023	Title: digital twin
Impact of Digital Technology Adoption on the Comparative	Ling, Florence Y. Y.; Heng, Gerald Tze Hon; Chang-		
Advantage of Architectural, Engineering, and Construction	Richards, Alice; Chen, Xichen; Yiu, Tak Wing		
Firms in Singapore	The state of the s	2023	Title: Process
Generation of synthetic manufacturing datasets for machine	Chan, K. C.; Rabaev, Marsel; Pratama, Handy		
learning using discrete-event simulation	chari, it. c., rasacv, marsei, rracama, manay	2022	Title: simulation
Indirect Tool Condition Monitoring Using Ensemble Machine	Schueller, Alexandra; Saldano, Christopher		
Learning Techniques	Schueller, Alexandra, Saldano, Christophier	2023	Title: Algorithm
Information extraction and application for constructing	Guan, Kainan; Li, Zhengguang; Zhang, Yu; Zou, Li; Yang,		
guidance corpus of welding fabrication	Xinhua	2023	Title: Process
Predictive Maintenance in a Digital Factory Shop-Floor: Data	Portsolakis Minas, Lampathaki Fanarati, Patrali		
Mining on Historical and Operational Data Coming from	Pertselakis, Minas; Lampathaki, Fenareti; Petrali,		
Manufacturers' Information Systems	Pierluigi	2019	Full text: Concept
Predictive Maintenance of Machine Tool Systems Using	Lea Waller W. Hatter V. a. H. Saal, 18 a. Hatter		
Artificial Intelligence Techniques Applied to Machine	Lee, Wo Jae; Wu, Haiyue; Yun, Huitaek; Kim, Hanjun;		
Condition Data	Jun, Martin B. G.; Sutherland, John W.	2019	Abstract: Review
Intelligent Insights for Manufacturing Inspections from			
Efficient Image Recognition	Eddy, Douglas; White, Michael; Blanchette, Damon	2023	Title: Process
Intelligent Operation Monitoring of an Ultra-Precision CNC			
Machine Tool Using Energy Data	Selvaraj, Vignesh; Xu, Zhicheng; Min, Sangkee	2023	Title: Process
Interactive and Intelligent Root Cause Analysis in	Walana Christanla Kantal Maninsilian Wassanla		
Manufacturing with Causal Bayesian Networks and	Wehner, Christoph; Kertel, Maximilian; Wewerka,		
Knowledge Graphs	Judith	2023	Title: Algorithm
Patented intelligence: Cloning human decision models for	T : V C II C : I C : I A :		
Industry 4.0	Terziyan, Vagan; Gryshko, Svitlana; Golovianko, Mania	2018	Included in investigation
Investigation and machine learning-based prediction of			
parametric effects of single point incremental forming on	Noise Champon Mahammad Daviti Issue		
pillow effect and wall profile of AlMn1Mg1 aluminum alloy	Najm, Sherwan Mohammed; Paniti, Imre		
sheets		2023	Title: Process

Knowledge graph driven credit risk assessment for micro,	Mitra, Rony; Dongre, Ayush; Dangare, Piyush;		
small and medium-sized enterprises	Goswami, Adrijit; Tiwari, Manoj Kumar	2023	Title: No manufacturing
Learning digital emulators for closed architecture machine	Tiwari, Akash; Wang, Yuandong; Saleeby, Kyle; Reddy,		
tool controllers	A. L. Narasimha; Bukkapatnam, Satish	2023	Title: Process
Data organization in laser-based powder bed fusion for	Feng, Shaw C.; Li, Shengyen; Yakout, Mostafa; Jones,		
metals	Albert T.	2022	Duplication
Steps towards digitization of manufacturing in an SME	Davida Franki Casarrava Jahra		
environment	Doyle, Frank; Cosgrove, John	2019	Abstract: Process
LSTM based artificial intelligence predictive maintenance			
technique for availability rate and OEE improvement in a	Mohan, Roosefert; Roselyn, J. Preetha; Uthra, R. Annie		
TPM implementing plant through Industry 4.0	Monan, Rooseiert, Roseiyn, J. Preetha, Othra, R. Annie		
transformation		2023	Title: Algorithm
Technical Diagnostics at the Department of Automation and	Kuric, Ivan; Cisar, Miroslav; Tlach, Vladimir; Zajacko,		
Production Systems	Ivan; Gal, Tomas; Wiecek, Dorota	2019	Abstract: Review
Machine learning guided design of experiments to	Young, Devin; Vondrasek, Britannia; Czabaj, Michael W.		
accelerate exploration of a material extrusion process	Tourig, Deviir, Volidrasek, Britannia, Czabaj, Michael W.	2023	Title: Process
Machine learning for monitoring and predictive	Bonci, Andrea; Di Biase, Alessandro; Dragoni, Aldo		
maintenance of cutting tool wear for clean-cut machining	Franco; Longhi, Sauro; Sernani, Paolo; Zega, Alessandro	2022	Title: lean
Machine Learning Tools for Flow-Related Defects Detection	Ambrosio, Danilo; Wagner, Vincent; Dessein, Gilles;		
in Friction Stir Welding	Vivas, Javier; Cahuc, Olivier	2023	Title: Process
Machine vision-based gradient-boosted tree and support	Bagga, Prashant J.; Patel, Kaushik M.; Makhesana,		
vector regression for tool life prediction in turning	Mayur A.; Sirin, Senol; Khanna, Navneet; Krolczyk,		
vector regression for toor life prediction in turning	Grzegorz M.; Pala, Adarsh D.; Chauhan, Kavan C.	2023	Title: Algorithm
A Proposal of Data-Driven and Multi-scale Modeling	Nagahara, Satoshi; Kaihara, Toshiya; Fujii, Nobutada;		
Approach for Material Flow Simulation	Kokuryo, Daisuke	2022	Title: simulation
Scalable Data Analytics from Predevelopment to Large Scale	Heimes, Heiner; Kampker, Achim; Buhrer, Ulrich;		
Manufacturing	Steinberger, Anita; Eirich, Joscha; Krotil, Stefan	2019	Included in investigation
Makespan estimation in a flexible job-shop scheduling	Tremblet, David; Thevenin, Simon; Dolgui, Alexandre		
environment using machine learning	Trembiet, David, Thevenini, Simon, Doigui, Alexandre	2023	Title: Process
Material recognition method to enable adaptive drilling of	Haoua, Abdoulaye Affadine; Rey, Pierre-Andre; Cherif,		
multi-material aerospace stacks	Mehdi; Abisset-Chavanne, Emmanuelle; Yousfi, Wadii	2023	Title: Product
Mechanical analysis and optimized performance of G-Code	Rivet, Ivan; Dialami, Narges; Cervera, Miguel;		
driven material extrusion components	Chiumenti, Michele; Valverde, Quino	2023	Title: Process

Microhardness and wear resistance in materials	Barrionuevo, German O.; Walczak, Magdalena; Ramos-		
manufactured by laser powder bed fusion: Machine learning	Grez, Jorge; Sanchez-Sanchez, Xavier		
approach for property prediction	arez, sorge, surrenez surrenez, xuvier	2023	Title: Process
Supporting Data Analytics in Manufacturing with a Digital	Wellsandt, Stefan; Foosherian, Mina; Lepenioti,		
	Katerina; Fikardos, Mattheos; Mentzas, Gregoris;		
Assistant	Thoben, Klaus-Dieter	2022	Included in investigation
Modified UNet with attention gate and dense skip			
connection for flow field information prediction with porous	Yu, Yang; Chen, Sheng; Wei, Heng		
media		2023	Title: Process
Multi-objective optimization based on machine learning and			
non-dominated sorting genetic algorithm for surface	Nguyen, Van-Hai; Le, Tien-Thinh; Le, Minh Vuong;		
roughness and tool wear in	Minh, Hoang Dao; Nguyen, Anh-Tu		
Ti <sub>6</sub> Al <sub>4</sub> V turning		2023	Title: Process
Multi-response optimization in face milling of EN-31 steel	Sharma, Vijay Kumar; Saini, Abhineet; Gupta, Manish;		
using analytical hierarchy process-based GRA	Sehgal, Satbir S.	2023	Title: Process
On machine learning and visual analysis for quality	Bastos, Thiago M. R.; Stragevitch, Luiz; Zanchettin,		
prediction of film metallization process	Cleber	2023	Title: Process
On Uses of Noise Analysis for the Uncertainty Quantification	Akpabio, Inimfon I.; Savari, Serap A.		
of Line Edge Roughness Estimation	Akpabio, Illillioti I., Savari, Serap A.	2023	Title: Process
One-Step Immunoassays Using Integrated Nanorod Arrays	Ye, Yuxin; Yang, Fan; Cao, Zhen		
For Rapid and Sensitive Detection of Cancer Biomarkers	re, ruxiii, raiig, raii, Cao, Ziieii	2022	Title: bio
On-line quality control and tool wear evaluation in trimming	Garcia-Llamas, E.; Gonzalez Castro, J. M.; Ramirez, G.;		
process by data analytics techniques	Pujante, J.	2023	Title: Process
Optimal 6E design of an integrated solar energy-driven	Khani, Nastaran; Manesh, Mohammad H. Khoshgoftar;		
polygeneration and CO <sub>2</sub> capture system: A	Onishi, Viviani C.		
machine learning approach	Offishi, viviani C.	2023	Title: Process
Zero Defect Manufacturing Strategies and Platform for	May, Gokan; Kiritsis, Dimitris		
Smart Factories of Industry 4.0	iviay, Jokan, Kilitsis, Dilliitiis	2019	Full text: Concept
Optimization of injection molding process using multi-	Jung, Jiyoung; Park, Kundo; Cho, Byungjin; Park,		
objective bayesian optimization and constrained generative	Jinkyoo; Ryu, Seunghwa		
inverse design networks	Jilikyoo, kyu, Seuligiiwa	2023	Title: Process
Vibrodiagnostics Faults Classification for the Safety	Zuth, Daniel; Blecha, Petr; Marada, Tomas; Huzlik,		
Enhancement of Industrial Machinery	Rostislav; Tuma, Jiri; Maradova, Karla; Frkal, Vojtech	2021	Title: safety
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Optimization of Milling Processes: Chatter Detection via a	Stavropoulos, Panagiotis; Souflas, Thanassis;		
Sensor-Integrated Vice	Manitaras, Dimitris; Papaioannou, Christos; Bikas,	2023	Title: Process
Optimized Design of Source Energy for Manufacturing	Duc, Minh Ly; Quang, Nguyen; Bilik, Petr; Martinek,		
Machine by Digital Numerical Control	Radek	2023	Title: energy
Embedding Reinforcement Learning in Simulation	AboElHassan, Ayman; Yacout, Soumaya	2021	Title: simulation
Parameters, Properties, and Process: Conditional Neural	Haveland Coatte Kassah Lawa Kannagantula Kasuti		
Generation of Realistic SEM Imagery Toward ML-Assisted	Howland, Scott; Kassab, Lara; Kappagantula, Keerti;		
Advanced Manufacturing	Kvinge, Henry; Emerson, Tegan	2023	Title: Algorithm
Passive machine vision-based defect classification in	Thangavel, Subramaniam; Maheswari, Chennippan;		
tungsten inert gas welding on SS304 using Al-based gradient	Priyanka, E. Bhaskaran		
descent algorithm	Priyanka, E. Bridskaran	2023	Title: Process
Towards a connected factory: Shop-floor data analytics in	Gyulai, David; Bergmann, Julia; Gallina, Viola; Gaal,		
cyber-physical environments	Alexander	2019	Included in investigation
Physics informed neural networks for fault severity	Wang, Zhiying; Zhou, Zheng; Xu, Wengang; Sun,		
identification of axial piston pumps	Chuang; Yan, Ruqiang	2023	Title: Process
Physics-guided machine learning frameworks for fatigue life	Wang, Lanyi; Zhu, Shun-Peng; Luo, Changqi; Liao, Ding;		
prediction of AM materials	Wang, Qingyuan	2023	Title: Process
Holistic approach to machine tool data analytics	Lenz, Juergen; Wuest, Thorsten; Westkaemper,		
Holistic approach to machine tool data analytics	Engelbert	2018	Full text: Concept
Predicting chatter using machine learning and acoustic	St John, Sam; Alberts, Matthew; Karandikar, Jaydeep;		
signals from low-cost microphones	Coble, Jamie; Jared, Bradley; Schmitz, Tony; Ramsauer,		
signals from low-cost microphones	Christoph; Leitner, David; Khojandi, Anahita	2023	Title: Process
A New Approach to Develop an Intelligent Robotic Gripper	Guerra-Zubiaga, David; Block, Logan; Ricketts, Adam;		
Using Virtual Tools Implementing IIoT and ML Technologies	Faile, Jacob; Dickson, Charlie	2021	Title: robot
Prediction of continuous cooling transformation diagrams in			
steels using light gradient boosting and rule-based	Ganguly, Sarbari; Manna, Sougat		
optimization		2023	Title: Algorithm
Intelligent devices in a decentralized production system	Graessler, Iris; Poehler, Alexander		
concept	Oracosier, iris, Fueriller, Alexanuer	2018	Full text: Process
Image-Guided Multi-Response Modeling and			
Characterization of Design Defects in Metal Additive	Imani, Farhad; Khanzadeh, Mojtaba		
Manufacturing		2021	Title: additive

New modelling techniques for dependability. Case study for a mechanical process	Vilcu, A.; Verzea, I.; Pislaru, M.; Herghiligiu, Ionut Viorel	2018	Abstract: Algorithm
Digital Twin: Universal User Interface for Online Management of the Manufacturing System	Kuts, Vladimir; Bondarenko, Yevhen; Gavriljuk, Marietta; Paryshev, Andriy; Jegorov, Sergei; Pizzagall, Simone; Otto, Tauno	2021	Title: digital twin
Quality monitoring for drilling based on internal data of machine tool	He, F.; Weigold, M.	2023	Title: Process
Review Work on Automatic Monitoring Systems in Machining Process: Means and Methods	Mehdi, Kamel	2021	Title: review
Quality prediction for milling processes: automated parametrization of an end-to-end machine learning pipeline	Fertig, Alexander; Preis, Christoph; Weigold, Matthias	2023	Title: Process
Random forests based classification of tool wear using vibration signals and wear area estimation from tool image data	Cardoz, Basil; Shaikh, Haris Naiyer E. Azam; Mulani, Shoaib Munir; Kumar, Ashwani; Rajasekharan, Sabareesh Geetha	2023	Title: Algorithm
Reliability engineering based on operating data and monitoring systems within technical products: Challenges, requirements and approaches	Bracke, S.; Hinz, M.; van Gulijk, C.; Gronwald, F.; Muenker, M.; Inoue, M.; Yamada, S.; Patelli, E.; Ulutas, B.; Bonato, M.; Yamada, T.	2018	Abstract: Concept
Digital Twins for Real-time Data Analysis in Industrie 4.0: Pathways to Maturity	Stahmann, Philip; Krueger, Arne; Rieger, Bodo	2021	Title: digital twin
Real-Time Change Detection for Automated Test Socket Inspection Using Advanced Computer Vision and Machine Learning	Edwards, Chris; Vaske, Alex; McDaniel, Nathan; Pradhan, Dipali; Panda, Debashis	2023	Title: Process
Recursive encoder network for the automatic analysis of STEP files	Miles, Victoria; Giani, Stefano; Vogt, Oliver	2023	Title: Algorithm
Evaluation of the Additive Manufacturability of CAD-Parts for initial Data Labelling in Al-based Part Identification	Winkler, Marcel; Stuermer, Stefan; Konrad, Christian	2021	Title: additive
Robust estimation of clinch joint characteristics based on data-driven methods	Zirngibl, Christoph; Schleich, Benjamin; Wartzack, Sandro	2023	Title: Process
Robust tool condition monitoring in Ti6Al4V milling based on specific force coefficients and growing self-organizing	Bernini, Luca; Albertelli, Paolo; Monno, Michele	2023	Title: Process
Robustification of the Random Forest: A Multitude of Decision Trees for Fault Diagnosis of Face Milling Cutter Through Measurement of Spindle Vibrations	Jogdeo, Atharva A.; Patange, Abhishek D.; Atnurkar, Atharva M.; Sonar, Pradnya R.	2023	Title: Algorithm

Securing Interaction Between Human and Robot Using			
Expert Control System	Dolganov, Andrey; Letnev, Konstantin	2020	Title: robot
Roller path solver system for multi-objective task-priority	Gondo, Shiori; Arai, Hirohiko	2023	Title: Process
control of multipass conventional spinning		2023	Title. Flocess
Root cause analysis of an out-of-control process using a	Khalifa Damy M. Vasqut Caumaya, Dassatta Camual		
logical analysis of data regression model and exponential weighted moving average	Khalifa, Ramy M.; Yacout, Soumaya; Bassetto, Samuel	2023	Title: Process
		2023	Title. Flocess
Tool wear estimation with a data-driven physics coupling approach	Zhang, Yu; Zhu, Kunpeng	2022	Abstract: Algorithm
Shape adjustment for uncertain mesh reflectors using	Ren, Zhiwei; Du, Jingli; Bao, Hong; Ge, Dongming;		
machine learning	Wang, Feijie	2023	Title: Process
Stability modeling for chatter avoidance in self-aware	Greis, Noel P.; Nogueira, Monica L.; Bhattacharya,		
machining: an application of physics-guided machine			
learning	Sambit; Spooner, Catherine; Schmitz, Tony	2023	Title: Process
Stability modeling for chatter avoidance in self-aware			
machining: an application of physics-guided machine	Efatmaneshnik, Mahmoud; Shoval, Shraga		
learning		2023	Title: Process
Tool-path continuity determination based on machine	Zhou, Bo; Tian, Tongtong; Zhao, Jibin; Liu, Dianhai		
learning method	Zhou, Bo, Hull, Tongtong, Zhuo, Jibin, Elu, Blailla	2022	Abstract: CAD
Supporting of manufacturer's demand plans as an element	Kmiecik, Mariusz		
of logistics coordination in the distribution network	Killietik, Mailusz	2023	Title: Process
Surface quality prediction by machine learning methods and	Adizue, Ugonna Loveday; Tura, Amanuel Diriba; Isaya,		
process parameter optimization in ultra-precision machining	Elly Ogutu; Farkas, Balazs Zsolt; Takacs, Marton		
of AISI D2 using CBN tool		2023	Title: Process
Task recognition from joint tracking data in an operational	Rude, Don J.; Adams, Stephen; Beling, Peter A.		
manufacturing cell		2018	Abstract: Algorithm
Synchronisation of material flows in mass-customised	Napoleone, Alessia; Moretti, Emilio; Macchi, Marco; Melacini, Marco		
production systems: a literature-based classification			
framework and industrial application		2023	Title: No relation to ML
The accuracy losing phenomenon in abrasive tool condition	Liu, Mingjun; Gong, Yadong; Sun, Jingyu; Tang, Benjia;		
monitoring and a noval WMMC-JDA based data-driven	Sun, Yao; Zu, Xinpeng; Zhao, Jibin		
method considered tool stochastic surface morphology		2023	Title: Process

Analysis and optimization based on reusable knowledge base of process performance models	Brodsky, Alexander; Shao, Guodong; Krishnamoorthy, Mohan; Narayanan, Anantha; Menasce, Daniel; Ak, Ronay	2017	Full text: No DAS for ML
Data mining and machine learning for condition-based	Accorsi, Riccardo; Manzini, Riccardo; Pascarella, Pietro;		
maintenance	Patella, Marco; Sassi, Simone	2017	Abstract: Algorithm
Towards big industrial data mining through explainable automated machine learning	Garouani, Moncef; Ahmad, Adeel; Bouneffa, Mourad; Hamlich, Mohamed; Bourguin, Gregory; Lewandowski, Arnaud	2022	Included in investigation
Integrating Rule-Based Systems and Data Analytics Tools Using Open Standard PMML	Li, Yunpeng; Roy, Utpal; Lee, Y. Tina; Rachuri, Sudarsan	2016	Abstract: No DAS for ML
The Cyber-Physical System of Machine Tool Monitoring: A Model-Driven Approach With Extended Kalman Filter Implementation	Yuan, Dezhi; Luo, Ting; Gu, Chaochen; Zhu, Kunpeng	2023	Title: Algorithm
The Elephant in the Room: New Skills and Work Dimensions of Turkish White Goods Industry Engineers in Industry 4.0	Demirbag, Kubra Simsek; Yildirim, Nihan	2023	Title: No manufacturing
Time Series Prediction for Energy Consumption of Computer Numerical Control Axes Using Hybrid Machine Learning Models	Stroebel, Robin; Probst, Yannik; Deucker, Samuel; Fleischer, Juergen	2023	Title: Process
Tool condition monitoring of diamond-coated burrs with	Jessel, Thomas; Byrne, Carl; Eaton, Mark; Merrifield,		
acoustic emission utilising machine learning methods	Ben; Harris, Stuart; Pullin, Rhys	2023	Title: Process
Tool remaining useful life prediction using bidirectional recurrent neural networks (BRNN)	De Barrena, Telmo Fernandez; Ferrando, Juan Luis; Garcia, Ander; Badiola, Xabier; de Buruaga, Mikel Saez; Vicente, Javier	2023	Title: Algorithm
Transferable Deep Learning for In-Situ Tool Wear Diagnosis	Russell, Matthew; Wang, Peng	2020	Abstract: Algorithm
Simulation based production support system in the field of steel construction for large offshore structures	Illgen, Benjamin; Sender, Jan; Fluegge, Wilko	2019	Title: simulation
A Cyber Physical Interface for Automation Systems- Methodology and Examples	Kao, Hung-An; Jin, Wenjing; Siegel, David; Lee, Jay	2015	Abstract: Process
Tool wear prediction method based on bidirectional long			
short-term memory neural network of single crystal silicon micro-grinding	She, Chengxi; Li, Kexin; Ren, Yinghui; Li, Wei; Shao, Kun	2023	Title: Algorithm
Transfer adversarial attacks across industrial intelligent systems	Yin, Zhenqin; Zhuo, Yue; Ge, Zhiqiang	2023	Title: No manufacturing

Mining Big Data in Manufacturing: Requirement Analysis,	Roy, Utpal; Zhu, Bicheng; Li, Yunpeng; Zhang, Heng;		
Tools and Techniques	Yaman, Omer	2015	Abstract: Review
A methodology using health and usage monitoring system	Nalliah, P.; Lewis, A.; Lomax, C.; Hawkins, C.		
data for payload life prediction		2018	Title: health
Quality Control of the Steel Wire Rod Product by Integration	Ridwan, Asep; Ekawati, Ratna; Novitasari, Ayu		
Lean Six Sigma and Taguchi Method		2018	Title: lean
Using machine learning and deep learning algorithms for	Shahin, Mohammad; Chen, F. Frank; Hosseinzadeh, Ali;		
downtime minimization in manufacturing systems: an early	Zand, Neda		
failure detection diagnostic service	Zand, Neda	2023	Title: Process
Design and Development of SQL System in Sustainability	Shahriar, S. R.; Nasir, Afsana; Dhar, N. R.		
Issues of Machining		2018	Title: sustainab
Using machine learning for cutting tool condition monitoring	Omole, Samuel; Dogan, Hakan; Lunt, Alexander J. G.;		
and prediction during machining of tungsten	Kirk, Simon; Shokrani, Alborz	2023	Title: Process
Variable selection wrapper in presence of correlated input	Rotari, Marta; Kulahci, Murat		
variables for random forest models	Notari, Marta, Natariti, Marat	2023	Title: Algorithm
Advance in Big Data Analytics at The Dow Chemical	Chiang, Leo; Lu, Bo; Castillo, Ivan		
Company	chang, 200, 20, castino, ivan	2017	Title: chemical
Virtual metrology of material removal rate using a one-			
dimensional convolutional neural network-based	Hsu, Chia-Yu; Lu, Yi-Wei		
bidirectional long short-term memory network with	risa, cina ra, La, ri vvci		
attention		2023	Title: Algorithm
Retrieval of Manufacturing Knowledge Using Machine	Ostermeyer, Emeric; Danjou, Christophe; Durupt,		
Learning - A Review	Alexandre; Duigou, Julien L. E.	2017	Title: review
Software-in-the-Loop Testbed for Multi-Agent-Systems in a	Scholz, Michael; Oberschachtsiek, Stefan; Donhauser,		
Discrete Event Simulation Integration of the Java Agent	Toni; Franke, Joerg		
Development Framework into Plant Simulation		2017	Title: simulation
Validation of PERFoRM reference architecture	Chakravorti, Nandini; Rahman, M. Mostafizur;		
demonstrating an application of data mining for predicting	Sidoumou, Mohamed Redha; Weinert, Nils; Gosewehr,		
machine failure	Frederik; Wermann, Jeffrey	2018	Included in investigation
On the Design of a Sustainable Production Line: The MetaCAM Tool	Fysikopoulos, Apostolos; Alexopoulos, Theocharis;		
	Pastras, George; Stavropoulos, Panos; Chryssolouris,		
Wictae/ MVI 1001	Georgios	2016	Title: sustainab

Vibration Analysis Utilizing Unsupervised Learning	Wescoat, Ethan; Krugh, Matthew; Henderson, Andrew; Goodnough, Josh; Mears, Lathe	2019	Abstract: Robot
Challenges in Developing a Computational Platform to	Li, Yunpeng; Roy, Utpal	2013	Alostrace. Nosoc
Integrate Data Analytics With Simulation-Based		2016	Title: simulation
ACWGAN-GP for milling tool breakage monitoring with	Li, Xuebing; Yue, Caixu; Liu, Xianli; Zhou, Jiaqi; Wang,		
imbalanced data	Lihui	2024	Title: Process
Development of a robot machining program using tool	She, C. H.; Huang, J. J.		
center point-based transformation		2016	Title: robot
An Accelerated Process Optimization Method to Minimize			
Deformations in Composites Using Theory-guided	Schoenholz, Caleb; Zobeiry, Navid		
Probabilistic Machine Learning		2024	Title: Process
In-mold condition-centered and explainable artificial			
intelligence-based (IMC-XAI) process optimization for	Gim, Jinsu; Lin, Chung-Yin; Turng, Lih-Sheng		
injection molding		2024	Title: Process