Author Keywords	Number
Machine learning	7
Industry 4.0	7
Cyber-physical system	7
Artificial intelligence	5
Data analytics	5
Predictive maintenance	4
Manufacturing	3
Big data analytics	3
Cyber-physical production system	2
AutoML	2
Data mining	2
Optimization	2
Big data	2
Industrial internet of things	2
Internet of things	2
Condition monitoring	2
Decision-making	2
Smart factories	1
Interactive machine learning	1
Human-centred	1
Cognitive models	1
Big data platform	1
Cognitive platform	1
Advanced analytics	1
Cognitive skills	1
IIoT platform	1
Collective intelligence	1
Natural language understanding Computer vision	1
Reference architecture	1
AutoML	1
Voice assistant	1
Cyber twin	1
Hadoop	1
Cyber-Manufacturing	1
Human-machine teaming	1
Augmented analytic	1
Advanced visualization techniques	1
Agent system	1
Cognition	1
Data analysis	1
Ontology	1
Architecture model	1
Assistance technology	1
Data augmentation	1
Simulation	1
Data integration	1
Thermal spraying	1
Assistive systems	1
Supervised learning	1
Data mining methods	1
Generative design	1
Decision support	1
Holonic manufacturing system	1
Key performance indicators	1
Human-cyber-physical systems	1

Learning algorithms Hyperparameter optimization Machine tool 4.0 Clone Machining process Intelligent manufacturing Big data analytics platform Cloud Milling Modularization Asset management Decision-support systems Machine tools Deep learning Manufactory Digital intelligent assistant Manufacturing-specialised data analytics algorithm template Early phase Model-based Energy data driven services MTConnect Energy digital twin Neural network Pi-Mind **Operation management** Predictive modeling Patented intelligence Preference Production management Energy efficiency Predictive quality control Energy efficiency Production Equipment health Prognosis Expert systems Sequential model-based optimization Explainable Al Smart decision Factory data analytics Sustainable manufacturing Failure prediction Value system Failure prognosis Decision-support system Fog computing Human-machine interaction2 Forecasting Fuzzy pattern classification Sum

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