

Papers published in 2024, Volume 19

#	Authors	Paper title	2024, Vol(No), Pages, DOI	Key words	Citation data
522	Ojstersek, R.; Javernik, A.; Buchmeister, B.	Integrating simulation modelling for sustainable, human-centred Industry 5.0: ESG-based evaluation in collaborative workplaces	2024, 19(4), 527-538, 10.14743/apem2024.4.522	Human-Centred manufacturing; Simulation modelling; Sustainability – ESG; Industry 5.0; Collaborative workplace; Human-robot interaction; Assembly process	Ojstersek, R.; Javernik, A.; Buchmeister, B. (2024). Integrating simulation modelling for sustainable, human-centred Industry 5.0: ESG-based evaluation in collaborative workplaces, <i>Advances in Production Engineering & Management</i> , Vol. 19, No. 4, 527-538, https://doi.org/10.14743/apem2024.4.522
521	BouAbid, H.; Dhouib, K.; Gharbi, A.	Integrated production and maintenance policy for manufacturing systems prone to products' quality degradation	2024, 19(4), 512-526, 10.14743/apem2024.4.521	Production planning; Stock control; Preventive maintenance; Quality degradation; Hedging point policy; Analytical modelling; Simulation analysis	BouAbid, H.; Dhouib, K.; Gharbi, A. (2024). Integrated production and maintenance policy for manufacturing systems prone to products' quality degradation, <i>Advances in Production Engineering & Management</i> , Vol. 19, No. 4, 512-526, https://doi.org/10.14743/apem2024.4.521
520	Pourhejazy, P.; Ying, K.-C.; Cheng, C.-Y.	An algorithmic review of the technological progress and milestones in resource-constrained project planning	2024, 19(4), 489-511, 10.14743/apem2024.4.520	Project management; Task scheduling; Resource constraint; Multi-objective optimization; Evolutionary computation; Swarm intelligence; Metaheuristics; Main path analysis; Cluster analysis	Pourhejazy, P.; Ying, K.-C.; Cheng, C.-Y. (2024). An algorithmic review of the technological progress and milestones in resource-constrained project planning, <i>Advances in Production Engineering & Management</i> , Vol. 19, No. 4, 489-511, https://doi.org/10.14743/apem2024.4.520
519	Siwec, D.; Gawlik, R.; Pacana, A.	Sustainable design of products: Balancing quality, life cycle impact, and social responsibility	2024, 19(4), 460-488, 10.14743/apem2024.4.519	Hybrid Electric Vehicle (HEV); Eco-innovation; Product quality; Sustainable development; Life Cycle Assessment (LCA); Multiple Criteria Decision-Making (MCDM); Mechanical engineering; Public management	Siwec, D.; Gawlik, R.; Pacana, A. (2024). Sustainable design of products: Balancing quality, life cycle impact, and social responsibility, <i>Advances in Production Engineering & Management</i> , Vol. 19, No. 4, 460-488, https://doi.org/10.14743/apem2024.4.519
518	Wang, Y.N.; Zhang, Z.J.; Ping, A.; Wang, R.J.; Gong, D.Q.	Optimizing electric vehicle charging strategies using multi-layer perception-based spatio-temporal prediction of charging station load	2024, 19(4), 443-459, 10.14743/apem2024.4.518	Electric vehicles; Spatio-temporal prediction; Charging station load; Multi-layer perception (MLP)	Wang, Y.N.; Zhang, Z.J.; Ping, A.; Wang, R.J.; Gong, D.Q. (2024). Optimizing electric vehicle charging strategies using multi-layer perception-based spatio-temporal prediction of charging station load, <i>Advances in Production Engineering & Management</i> , Vol. 19, No. 4, 443-459, https://doi.org/10.14743/apem2024.4.518
517	Kovacic, M.; Zupanc, A.; Zuperl, U.; Brezocnik, M.	Reducing scrap in long rolled round steel bars using Genetic Programming after ultrasonic testing	2024, 19(4), 435-442, 10.14743/apem2024.4.517	Steel industry; Rolling; Long bars; Ultrasonic testing; Scrap; Defects; Modelling; Genetic programming	Kovacic, M.; Zupanc, A.; Zuperl, U.; Brezocnik, M. (2024). Reducing scrap in long rolled round steel bars using Genetic Programming after ultrasonic testing, <i>Advances in Production Engineering & Management</i> , Vol. 19, No. 4, 435-442, https://doi.org/10.14743/apem2024.4.517
516	Escobar, D.; Chivata, B.; Nino, K.	A bi-objective Genetic Algorithm for flexible flow shop scheduling: A real-world application in the electrical industry	2024, 19(4), 415-434, 10.14743/apem2024.4.516	Production scheduling; Flexible flow shop; Genetic algorithm; Makespan; Tardiness; Transfer batch; Electrical sector	Escobar, D.; Chivata, B.; Nino, K. (2024). A bi-objective Genetic Algorithm for flexible flow shop scheduling: A real-world application in the electrical industry, <i>Advances in Production Engineering & Management</i> , Vol. 19, No. 4, 415-434, https://doi.org/10.14743/apem2024.4.516
515	Zhang, H.; Guo, Y.W.; Hou, Y.; Tang, L.; Deveci, M.	Improved Whale Optimization Algorithm for supply chain financial risk assessment of cloud warehouse platform	2024, 19(3), 395-407, 10.14743/apem2024.3.515	Cloud warehouse platform; Supply chain finance; Risk assessment; KMV model; Swarm intelligence; Improved Whale Optimization Algorithm	Zhang, H.; Guo, Y.W.; Hou, Y.; Tang, L.; Deveci, M. (2024). Improved Whale Optimization Algorithm for supply chain financial risk assessment of cloud warehouse platform, <i>Advances in Production Engineering & Management</i> , Vol. 19, No. 3, 395-407, https://doi.org/10.14743/apem2024.3
514	Lipus, L.C.; Acko, B.; Klobucar, R.	Enhancing calibration accuracy with laser interferometry for high-resolution measuring systems	2024, 19(3), 386-394, 10.14743/apem2024.3.514	Laser interferometry; High resolution measurements; Measurement uncertainty; Dimensional metrology; Coordinate measuring machine; Precise probe; Line scale	Lipus, L.C.; Acko, B.; Klobucar, R. (2024). Enhancing calibration accuracy with laser interferometry for high-resolution measuring systems, <i>Advances in Production Engineering & Management</i> , Vol. 19, No. 3, 386-394, https://doi.org/10.14743/apem2024.3.514
513	Vukelic, D.; Milosevic, A.; Ivanov, V.; Kocovic, V.; Santosi, Z.; Sokac, M.; Simunovic, G.	Modelling and optimization of dimensional accuracy and surface roughness in dry turning of Inconel 625 alloy	2024, 19(3), 371-385, 10.14743/apem2024.3.513	CNC dry turning; Inconel 625 alloy; Surface roughness; Dimensional accuracy; Optimization; Modelling	Vukelic, D.; Milosevic, A.; Ivanov, V.; Kocovic, V.; Santosi, Z.; Sokac, M.; Simunovic, G. (2024). Modelling and optimization of dimensional accuracy and surface roughness in dry turning of Inconel 625 alloy, <i>Advances in Production Engineering & Management</i> , Vol. 19, No. 3, 371-385, https://doi.org/10.14743/apem2024.3.513
512	Zhang, H.Q.	Optimizing obstacle avoidance path planning for intelligent mobile robots in multi-obstacle environments	2024, 19(3), 358-370, 10.14743/apem2024.3.512	Intelligent mobile robots; Obstacle avoidance path planning; Adaptive Monte Carlo; Envelope method	Zhang, H.Q. (2024). Optimizing obstacle avoidance path planning for intelligent mobile robots in multi-obstacle environments, <i>Advances in Production Engineering & Management</i> , Vol. 19, No. 3, 358-370, https://doi.org/10.14743/apem2024.3.512
511	Song, W.T.; Huo, L.	Machine learning for enhancing manufacturing quality control in ultrasonic nondestructive testing: A Wavelet Neural Network and Genetic Algorithm approach	2024, 19(3), 347-357, 10.14743/apem2024.3.511	Ultrasonic nondestructive testing (NDT); Machine learning; Genetic Algorithm (GA); Wavelet Neural Network (WNN); Quality prediction; Quality stability assessment; Quality control optimization	Song, W.T.; Huo, L. (2024). Machine learning for enhancing manufacturing quality control in ultrasonic nondestructive testing: A Wavelet Neural Network and Genetic Algorithm approach, <i>Advances in Production Engineering & Management</i> , Vol. 19, No. 3, 347-357, https://doi.org/10.14743/apem2024.3.511
510	Vujica Herzog, N.; Buchmeister, B.; Park, J.; Kaya, O.	Enhancing workplace safety and ergonomics with motion capture systems: Present state and a case study	2024, 19(3), 333-346, 10.14743/apem2024.3.510	Ergonomics; Ergonomic risks; Biomechanical research; Motion capture; Xsens suit; Industry 4.0; Workplace analysis; Virtual reality	Vujica Herzog, N.; Buchmeister, B.; Park, J.; Kaya, O. (2024). Enhancing workplace safety and ergonomics with motion capture systems: Present state and a case study, <i>Advances in Production Engineering & Management</i> , Vol. 19, No. 3, 333-346, https://doi.org/10.14743/apem2024.3.510
509	Hou, D.N.; Liu, S.C.	Optimization of cold chain multimodal transportation routes considering carbon emissions under hybrid uncertainties	2024, 19(3), 315-332, 10.14743/apem2024.3.509	Cold chain multimodal transportation; Route optimization; Hybrid uncertainties; Niche genetic algorithm; Dual-pheromone Ant Colony Algorithm; Robust optimization; Carbon emissions	Hou, D.N.; Liu, S.C. (2024). Optimization of cold chain multimodal transportation routes considering carbon emissions under hybrid uncertainties, <i>Advances in Production Engineering & Management</i> , Vol. 19, No. 3, 315-332, https://doi.org/10.14743/apem2024.3.509
508	Weng, L.L.	Dynamic scheduling for manufacturing workshops using Digital Twins, Competitive Particle Swarm Optimization, and Siamese Neural Networks	2024, 19(3), 301-314, 10.14743/apem2024.3.508	Manufacturing workshop; Scheduling; Digital Twin; Siamese Network; Competitive Particle Swarm Optimization; Siamese Neural Network	Weng, L.L. (2024). Dynamic scheduling for manufacturing workshops using Digital Twins, Competitive Particle Swarm Optimization, and Siamese Neural Networks, <i>Advances in Production Engineering & Management</i> , Vol. 19, No. 3, 301-314, https://doi.org/10.14743/apem2024.3.508
507	Masood, A.A.; Ali, A.; Madhu, P.; Yashas Gowda, T.G.; Jeevan, T.P.; Sharath, B.N.	Characterizing the effects of SiC and Al2O3 on the mechanical properties of Al6082 hybrid metal matrix composites: An experimental and neural network approach	2024, 19(2), 281-292, 10.14743/apem2024.2.507	Aerospace and automotive industry; Manufacturing; Stir casting; Metal matrix composites (MMC); Aluminium metal matrix composite (Al2O3); Silicon carbide (SiC); Mechanical properties; Artificial neural network (ANN)	Masood, A.A.; Ali, A.; Madhu, P.; Yashas Gowda, T.G.; Jeevan, T.P.; Sharath, B.N. (2024). Characterizing the effects of SiC and Al2O3 on the mechanical properties of Al6082 hybrid metal matrix composites: An experimental and neural network approach, <i>Advances in Production Engineering & Management</i> , Vol. 19, No. 2, 281-292, https://doi.org/10.14743/apem2024.2.507
506	Tang, M.C.; Cao, J.; Gong, D.Q.; Xue, G.; Khoa, B.T.	Simulation analysis of dual-end queuing ride-hailing system considering driver-side queue management	2024, 19(2), 268-280, 10.14743/apem2024.2.506	Dual-end queuing; Multi-agent simulation; System operational efficiency; Cumulative passenger count	Tang, M.C.; Cao, J.; Gong, D.Q.; Xue, G.; Khoa, B.T. (2024). Simulation analysis of dual-end queuing ride-hailing system considering driver-side queue management, <i>Advances in Production Engineering & Management</i> , Vol. 19, No. 2, 268-280, https://doi.org/10.14743/apem2024.2.506
505	Yao, J.	Optimization of reverse logistics network for end-of-life vehicles: A Shanghai case study	2024, 19(2), 253-267, 10.14743/apem2024.2.505	End-of-life vehicles; Reverse logistics; Recycling; OGM (1, N) model; Mixed-integer programming (MILP); LINGO	Yao, J. (2024). Optimization of reverse logistics network for end-of-life vehicles: A Shanghai case study, <i>Advances in Production Engineering & Management</i> , Vol. 19, No. 2, 253-267, https://doi.org/10.14743/apem2024.2.505

504	Bielak, E.; Zakrzewska, M.	Current state and production characteristics of the Polish tanning industry: A case study	2024, 19(2), 239-252, 10.14743/apem2024.2.504	Polish tanning industry; Leather manufacturing; Micro and small enterprises; Ecological transformation; Deindustrialization; Competitiveness; Product quality; Survey	Bielak, E.; Zakrzewska, M. (2024). Current state and production characteristics of the Polish tanning industry: A case study, <i>Advances in Production Engineering & Management</i> , Vol. 19, No. 2, 239-252, https://doi.org/10.14743/apem2024.2.504
503	Xu, W.; Xu, S.; Liu, D.Y.; Awaga, A.L.; Rabia, A.; Zhang, Y.Y.	Impact of fairness concerns on resource-sharing decisions: A comparative analysis using evolutionary game models in manufacturing enterprises	2024, 19(2), 223-238, 10.14743/apem2024.2.503	Fairness concerns; Symmetrical manufacturing enterprises; Resource-sharing; Evolutionary game; Simulation; Digital economy; MATLAB; Strategic decision; Business models	Xu, W.; Xu, S.; Liu, D.Y.; Awaga, A.L.; Rabia, A.; Zhang, Y.Y. (2024). Impact of fairness concerns on resource-sharing decisions: A comparative analysis using evolutionary game models in manufacturing enterprises, <i>Advances in Production Engineering & Management</i> , Vol. 19, No. 2, 223-238, https://doi.org/10.14743/apem2024.2.503
502	Strbac, B.; Ranisavljev, M.; Orosnjak, M.; Havrlisan, S.; Dudic, B.; Savkovic, B.	Unsupervised machine learning application in the selection of measurement strategy on Coordinate Measuring Machine	2024, 19(2), 209-222, 10.14743/apem2024.2.502	Coordinate Measuring Machine (CMM); Measurement strategy; Accuracy; Principal component analysis; Multiple correspondence analysis; Unsupervised learning	Strbac, B.; Ranisavljev, M.; Orosnjak, M.; Havrlisan, S.; Dudic, B.; Savkovic, B. (2024). Unsupervised machine learning application in the selection of measurement strategy on Coordinate Measuring Machine, <i>Advances in Production Engineering & Management</i> , Vol. 19, No. 2, 209-222, https://doi.org/10.14743/apem2024.2.502
501	Sibanda, M.M.; Padayachee, J.	A modified bi-objective NSGA-II approach to sustainability in reconfiguration planning of dynamic cellular manufacturing systems	2024, 19(2), 197-208, 10.14743/apem2024.2.501	Sustainable manufacturing; Cellular manufacturing systems; Plant layout reconfiguration; Optimisation; Non-dominated Sorting Genetic Algorithm (NSGA-II); Penalty approach; Bi-objective integer programming	Sibanda, M.M.; Padayachee, J. (2024). A modified bi-objective NSGA-II approach to sustainability in reconfiguration planning of dynamic cellular manufacturing systems, <i>Advances in Production Engineering & Management</i> , Vol. 19, No. 2, 197-208, https://doi.org/10.14743/apem2024.2.501
500	Mlinaric, J.; Pregelj, B.; Boskoski, P.; Dolanc, G.; Petrovcic, J.	Optimization of reliability and speed of the end-of-line quality inspection of electric motors using machine learning	2024, 19(2), 182-196, 10.14743/apem2024.2.500	Quality inspection; Fault detection; Machine learning; Feature selection and classification; Feature importance; Decision trees; Random forests; Bagging; Gradient boosting algorithm	Mlinaric, J.; Pregelj, B.; Boskoski, P.; Dolanc, G.; Petrovcic, J. (2024). Optimization of reliability and speed of the end-of-line quality inspection of electric motors using machine learning, <i>Advances in Production Engineering & Management</i> , Vol. 19, No. 2, 182-196, https://doi.org/10.14743/apem2024.2.500
499	Lv, Q.H.; Chen, J.; Chen, P.; Xun, Q.F.; Gao, L.	Flexible Job-shop Scheduling Problem with parallel operations using Reinforcement Learning: An approach based on Heterogeneous Graph Attention Networks	2024, 19(2), 157-181, 10.14743/apem2024.2.499	Flexible scheduling; Flexible Job-shop Scheduling Problem (FJSP); Unified scheduling model; Parallel operations; Reinforcement learning; Heterogeneous Graph Networks; Attention Restart method based on Heterogeneous Graph Attention Networks (AR-HGAT)	Lv, Q.H.; Chen, J.; Chen, P.; Xun, Q.F.; Gao, L. (2024). Flexible Job-shop Scheduling Problem with parallel operations using Reinforcement Learning: An approach based on Heterogeneous Graph Attention Networks, <i>Advances in Production Engineering & Management</i> , Vol. 19, No. 2, 157-181, https://doi.org/10.14743/apem2024.2.499
498	Mandic, V.; Milosavljevic, Dj.; Jurkovic, Z.; Adamovic, D.	Experimental and numerical investigation of the deep drawing process using a tractrix die – An industrial case study focused on stress and temperature analysis	2024, 19(1), 133-148, 10.14743/apem2024.1.498	Deep drawing; Tractrix die; Reinforcing rings; Finite element method (FEM); Experimental-numerical approach; Numerical modelling; Simulation; Infrared imaging technology; Simufact.forming	Mandic, V.; Milosavljevic, Dj.; Jurkovic, Z.; Adamovic, D. (2024). Experimental and numerical investigation of the deep drawing process using a tractrix die – An industrial case study focused on stress and temperature analysis, <i>Advances in Production Engineering & Management</i> , Vol. 19, No. 1, 133-148, https://doi.org/10.14743/apem2024.1.498
497	Wang, R.X.; Nie, L.; Fang, W.; Ren, H.Q.; Tan, Y.Y.	Integrated optimization of line planning and timetabling on high-speed railway network considering cross-line operation	2024, 19(1), 117-132, 10.14743/apem2024.1.497	Railway network; Optimization; Train line planning; Timetable scheduling; Cross-line operation; Passenger demand; Origin-destination direct service frequency; Genetic algorithm	Wang, R.X.; Nie, L.; Fang, W.; Ren, H.Q.; Tan, Y.Y. (2024). Integrated optimization of line planning and timetabling on high-speed railway network considering cross-line operation, <i>Advances in Production Engineering & Management</i> , Vol. 19, No. 1, 117-132, https://doi.org/10.14743/apem2024.1.497
496	Begic-Hajdarevic, D.; Klančnik, S.; Muhamedagic, K.; Cekic, A.; Cohodar Husic, M.; Ficko, M.; Gusel, L.	FDM process parameter selection by hybrid MCDM approach for flexural and compression strength maximization	2024, 19(1), 108-116, 10.14743/apem2024.1.496	Fused deposition modelling (FDM); Multi-criteria decision-making (MCDM); Hybrid PSI-TOPSIS method; Process parameters; Mechanical properties; Optimization	Begic-Hajdarevic, D.; Klančnik, S.; Muhamedagic, K.; Cekic, A.; Cohodar Husic, M.; Ficko, M.; Gusel, L. (2024). FDM process parameter selection by hybrid MCDM approach for flexural and compression strength maximization, <i>Advances in Production Engineering & Management</i> , Vol. 19, No. 1, 108-116, https://doi.org/10.14743/apem2024.1.496
495	Ma, R.M.; Yao, L.F.; Wang, H.	Evolutionary game analysis of green innovation in E-commerce closed-loop supply chain WEEE recycling	2024, 19(1), 93-107, 10.14743/apem2024.1.495	Recycling; Waste electrical and electronic equipment (WEEE); E-commerce; Closed-loop supply chain; Green innovation; Evolutionary game; Decision-making; MATLAB	Ma, R.M.; Yao, L.F.; Wang, H. (2024). Evolutionary game analysis of green innovation in E-commerce closed-loop supply chain WEEE recycling, <i>Advances in Production Engineering & Management</i> , Vol. 19, No. 1, 93-107, https://doi.org/10.14743/apem2024.1.495
494	Jankovic, D.; Simic, M.; Herakovic, N.	A comparative study of machine learning regression models for production systems condition monitoring	2024, 19(1), 78-92, 10.14743/apem2024.1.494	Hydraulic press; Metal forming; Machine Learning (ML); Linear Regression (LR); Decision Trees (DT); Support Vector Machine (SVM); Gaussian Process Regression (GPR); Artificial Neural Networks (ANN)	Jankovic, D.; Simic, M.; Herakovic, N. (2024). A comparative study of machine learning regression models for production systems condition monitoring, <i>Advances in Production Engineering & Management</i> , Vol. 19, No. 1, 78-92, https://doi.org/10.14743/apem2024.1.494
493	Zhong, C.W.; Zhang, H.; Zhang, Z.W.; Wu, Z.Q.; Lu, M.L.	The investigation of production variance in a module-based assembly system: A Markovian Arrival Process approach	2024, 19(1), 65-77, 10.14743/apem2024.1.493	Manufacturing; Assembly; Production variance; Markovian arrival process (MAP); Module-based assembly (MOBA) system	Zhong, C.W.; Zhang, H.; Zhang, Z.W.; Wu, Z.Q.; Lu, M.L. (2024). The investigation of production variance in a module-based assembly system: A Markovian Arrival Process approach, <i>Advances in Production Engineering & Management</i> , Vol. 19, No. 1, 65-77, https://doi.org/10.14743/apem2024.1.493
492	Sevsek, L.; Vilkovsky, S.; Majernikova, J.; Pepelnjak, T.	Predicting the deep drawing process of TRIP steel grades using multilayer perceptron artificial neural networks	2024, 19(1), 46-64, 10.14743/apem2024.1.492	Forming; Deep drawing; TRIP steel; Artificial neural network (ANN); Finite element methods (FEM); Modelling; Simulation	Sevsek, L.; Vilkovsky, S.; Majernikova, J.; Pepelnjak, T. (2024). Predicting the deep drawing process of TRIP steel grades using multilayer perceptron artificial neural networks, <i>Advances in Production Engineering & Management</i> , Vol. 19, No. 1, 46-64, https://doi.org/10.14743/apem2024.1.492
491	Li, Y.C.; Wang, X.	Human-robot collaboration assembly line balancing considering cross-station tasks and the carbon emissions	2024, 19(1), 31-45, 10.14743/apem2024.1.491	Assembly line balancing problem; Human-robot collaboration; Cross-station tasks; Carbon emissions; Collaborative robot (cobot); Particle swarm algorithm (PSO)	Li, Y.C.; Wang, X. (2024). Human-robot collaboration assembly line balancing considering cross-station tasks and the carbon emissions, <i>Advances in Production Engineering & Management</i> , Vol. 19, No. 1, 31-45, https://doi.org/10.14743/apem2024.1.491
490	Li, Z.Y.; Zhao, P.X.; Wang, C.L.; Mi, Y.Z.	Research on recovery strategies of supply chain network under disruption propagation using memetic algorithm	2024, 19(1), 21-30, 10.14743/apem2024.1.490	Supply chain network; Disruption propagation; Recovery strategy; Memetic algorithm	Li, Z.Y.; Zhao, P.X.; Wang, C.L.; Mi, Y.Z. (2024). Research on recovery strategies of supply chain network under disruption propagation using memetic algorithm, <i>Advances in Production Engineering & Management</i> , Vol. 19, No. 1, 21-30, https://doi.org/10.14743/apem2024.1.490
489	Xu, E.B.; Zou, F.F.; Shan, P.P.; Wang, Z.Y.; Shi, B.X.	An improved multi-objective firefly algorithm for integrated scheduling approach in manufacturing and assembly considering time-sharing step tariff	2024, 19(1), 5-20, 10.14743/apem2024.1.489	Energy saving; Integrated scheduling; Manufacturing and assembly; Time-sharing step tariff; Switch strategy; Firefly algorithm; Multi-objective model	Xu, E.B.; Zou, F.F.; Shan, P.P.; Wang, Z.Y.; Shi, B.X. (2024). An improved multi-objective firefly algorithm for integrated scheduling approach in manufacturing and assembly considering time-sharing step tariff, <i>Advances in Production Engineering & Management</i> , Vol. 19, No. 1, 5-20, https://doi.org/10.14743/apem2024.1.489

Papers published in 2023, Volume 18

#	Authors	Paper title	2023, Vol(No), Pages, DOI	Key words	Citation data
488	Kovacic, M.; Zuperl, U.; Gusel, L.; Brezocnik, M.	Reduction of surface defects by optimization of casting speed using genetic programming: An industrial case study	2023, 18(4), 501-511, 10.14743/apem2023.4.488	Continuous casting of steel; Surface defects; Automatic control; Machine learning; Modelling; Optimization; Prediction; Linear regression; Genetic programming	Kovacic, M.; Zuperl, U.; Gusel, L.; Brezocnik, M. (2023). Reduction of surface defects by optimization of casting speed using genetic programming: An industrial case study, <i>Advances in Production Engineering & Management</i> , Vol. 18, No. 4, 501-511, https://doi.org/10.14743/apem2023.4.488
487	Zhao, J.; Su, J.F.	Incentive modeling analysis in engineering applications and projects with stochastic duration time	2023, 18(4), 486-500, 10.14743/apem2023.4.487	Engineering applications; Incentive mechanism; Modeling analysis; Stochastic duration time; Deadline incentive model; Competition model; Parallel subtasks; Mixed model	Zhao, J.; Su, J.F. (2023). Incentive modeling analysis in engineering applications and projects with stochastic duration time, <i>Advances in Production Engineering & Management</i> , Vol. 18, No. 4, 486-500, https://doi.org/10.14743/apem2023.4.487
486	Ojstersek, R.; Javernik, A.; Buchmeister, B.	Optimizing smart manufacturing systems using digital twin	2023, 18(4), 475-485, 10.14743/apem2023.4.486	Smart manufacturing; Digital twin; Optimisation; Simulation modelling; Simio; Case study	Ojstersek, R.; Javernik, A.; Buchmeister, B. (2023). Optimizing smart manufacturing systems using digital twin, <i>Advances in Production Engineering & Management</i> , Vol. 18, No. 4, 475-485, https://doi.org/10.14743/apem2023.4.486
485	Shi, J.L.; Lu, Z.C.; Xu, H.H.; Ren, M.M.; Shu, F.L.	Comparing Fault Tree Analysis methods combined with Generalized Grey Relation Analysis: A new approach and case study in the automotive industry	2023, 18(4), 462-474, 10.14743/apem2023.4.485	Fault tree analysis (FTA); Generalized Grey Relation Analysis (GGRA); Failure mode; Fault diagnosis; Complex system; Fault Tree Analysis combined with Absolute Grey Relation Analysis (F-AGRA); Fault Tree Analysis combined with Relative Grey Relation Analysis (F-RGRA); Fault Tree Analysis combined with Comprehensive Grey Relation Analysis (C-GRA)	Shi, J.L.; Lu, Z.C.; Xu, H.H.; Ren, M.M.; Shu, F.L. (2023). Comparing Fault Tree Analysis methods combined with Generalized Grey Relation Analysis: A new approach and case study in the automotive industry, <i>Advances in Production Engineering & Management</i> , Vol. 18, No. 4, 462-474, https://doi.org/10.14743/apem2023.4.485
484	Shweta, R.; Sivagnanam, S.; Kumar, K.A.	IoT-based Deep Learning Neural Network (DLNN) algorithm for voltage stability control and monitoring of solar power generation	2023, 18(4), 447-461, 10.14743/apem2023.4.484	Solar photovoltaic (SPV); Internet of things (IoT); Data analytics; Sigfox communication technology; Low-power wireless area network (LPWAN); Energy loss; Machine learning; Transformation search centered seagull optimization algorithm (TSSO); Gaussian kernelized deep learning Neural Network (GKDLNN)	Shweta, R.; Sivagnanam, S.; Kumar, K.A. (2023). IoT-based Deep Learning Neural Network (DLNN) algorithm for voltage stability control and monitoring of solar power generation, <i>Advances in Production Engineering & Management</i> , Vol. 18, No. 4, 447-461, https://doi.org/10.14743/apem2023.4.484
483	Deng, G.F.	Dynamic price competition market for retailers in the context of consumer learning behavior and supplier competition: Machine learning-enhanced agent-based modeling and simulation	2023, 18(4), 434-446, 10.14743/apem2023.4.483	Pricing competitive model; Complex adaptive system (CAS); Agent-based modeling and simulation (ABMS); Machine learning (ML); Genetic algorithms (GA); Fuzzy logic (FL); Reinforcement learning (RL); Swarm intelligence (SW); Consumer learning behavior	Deng, G.F. (2023). Dynamic price competition market for retailers in the context of consumer learning behavior and supplier competition: Machine learning-enhanced agent-based modeling and simulation, <i>Advances in Production Engineering & Management</i> , Vol. 18, No. 4, 434-446, https://doi.org/10.14743/apem2023.4.483
482	Ju, P.	Optimizing rock breaking performance: The influence of chamfer on polycrystalline diamond compact (PDC) cutters	2023, 18(4), 417-433, 10.14743/apem2023.4.482	Polycrystalline diamond compact (PDC) cutter; Chamfer parameters; Optimization; Cutting force; Theoretical analysis; Numerical simulation; Smooth ParticleHydrodynamic (SPH); Stress characteristics	Ju, P. (2023). Optimizing rock breaking performance: The influence of chamfer on polycrystalline diamond compact (PDC) cutters, <i>Advances in Production Engineering & Management</i> , Vol. 18, No. 4, 417-433, https://doi.org/10.14743/apem2023.4.482
481	Wang, D.L.; Ding, A.; Chen, G.L.; Zhang, L.	A combined genetic algorithm and A* search algorithm for the electric vehicle routing problem with time windows	2023, 18(4), 403-416, 10.14743/apem2023.4.481	Vehicle routing problem (VRP); Electric vehicle; Optimization; Time windows; Spatiotemporal electricity price; Smart microgrids; Genetic algorithm (GA); A* search algorithm; GA-A* algorithm	Wang, D.L.; Ding, A.; Chen, G.L.; Zhang, L. (2023). A combined genetic algorithm and A* search algorithm for the electric vehicle routing problem with time windows, <i>Advances in Production Engineering & Management</i> , Vol. 18, No. 4, 403-416, https://doi.org/10.14743/apem2023.4.481
480	Cao, J.; Han, H.; Wang, Y.J.; Han, T.C.	Optimal logistics scheduling with dynamic information in emergency response: Case studies for humanitarian objectives	2023, 18(3), 381-395, 10.14743/apem2023.3.480	Logistic; Humanitarian logistics; Optimization; Multi-objective; Dynamic information; Delay cost; Benders decomposition algorithm; Mixed integer programming; Ant colony optimization algo-rithm; Genetic algorithm	Cao, J.; Han, H.; Wang, Y.J.; Han, T.C. (2023). Optimal logistics scheduling with dynamic information in emergency response: Case studies for humanitarian objectives, <i>Advances in Production Engineering & Management</i> , Vol. 18, No. 3, 381-395, https://doi.org/10.14743/apem2023.3.480
479	Li, L.; Yang, D.L.; Cui, Y.M.	Optimization of machining performance in deep hole boring: A study on cutting tool vibration and dynamic vibration absorber design,	2023, 18(3), 371-380, 10.14743/apem2023.3.479	Deep hole boring; Boring bar; Machining performance; Vibration; Dynamic vibration absorber; Stiffness matching; Matlab	Li, L.; Yang, D.L.; Cui, Y.M. (2023). Optimization of machining performance in deep hole boring: A study on cutting tool vibration and dynamic vibration absorber design, <i>Advances in Production Engineering & Management</i> , Vol. 18, No. 3, 371-380, https://doi.org/10.14743/apem2023.3.479
478	Milenkovic, M.; Ciric Lalic, D.; Vujcic, M.; Pesko, I.; Savkovic, M.; Gracanin, D.	Project portfolio management in telecommunication company: A stage-gate approach for effective portfolio governance	2023, 18(3), 357-370, 10.14743/apem2023.3.478	Telecommunication industry; Project portfolio management; Stage-gate model; Strategic goals; Value delivery system	Milenkovic, M.; Ciric Lalic, D.; Vujcic, M.; Pesko, I.; Savkovic, M.; Gracanin, D. (2023). Project portfolio management in telecommunication company: A stage-gate approach for effective portfolio governance, <i>Advances in Production Engineering & Management</i> , Vol. 18, No. 3, 357-370, https://doi.org/10.14743/apem2023.3.478
477	Wawak, S.; Sutoova, A.; Vykydal, D.; Halfarova, P.	Factors affecting Quality 4.0 implementation in Czech, Slovak and Polish organizations: Preliminary research	2023, 18(3), 345-356, 10.14743/apem2023.3.477	Quality management; Industry 4.0; Quality 4.0; Quality 4.0 readiness; Management systems; Industry sector; Organization size; Chi-square test	Wawak, S.; Sutoova, A.; Vykydal, D.; Halfarova, P. (2023). Factors affecting Quality 4.0 implementation in Czech, Slovak and Polish organizations: Preliminary research, <i>Advances in Production Engineering & Management</i> , Vol. 18, No. 3, 345-356, https://doi.org/10.14743/apem2023.3.477
476	Cao, G.M.; Zhao, X.X.; Gao, H.H.; Tang, M.C.	A game theory analysis of intelligent transformation and sales mode choice of the logistics service provider	2023, 18(3), 327-344, 10.14743/apem2023.3.476	Logistics service supply chain (LSSC); Intelligent transformation; Sales model; Decision analysis; Logistics service provider (LSP); Logistics service integrator (LSI); Profit; Game theory	Cao, G.M.; Zhao, X.X.; Gao, H.H.; Tang, M.C. (2023). A game theory analysis of intelligent transformation and sales mode choice of the logistics service provider, <i>Advances in Production Engineering & Management</i> , Vol. 18, No. 3, 327-344, https://doi.org/10.14743/apem2023.3.476
475	Banyai, A.	Impact of agile, condition-based maintenance strategy on cost efficiency of production systems,	2023, 18(3), 317-326, 10.14743/apem2023.3.475	Agile maintenance strategy; Productivity; Process control; Markov decision process; Maintenance strategy; Optimization; Smart manufacturing	Banyai, A. (2023). Impact of agile, condition-based maintenance strategy on cost efficiency of production systems, <i>Advances in Production Engineering & Management</i> , Vol. 18, No. 3, 317-326, https://doi.org/10.14743/apem2023.3.475
474	Ai, T.; Huang, L.; Song, R.J.; Huang, H.F.; Jiao, F.; Ma, W.G.	An improved deep reinforcement learning approach: A case study for optimisation of berth and yard scheduling for bulk cargo terminal	2023, 18(3), 303-316, 10.14743/apem2023.3.474	Bulk cargo terminal; Scheduling; Optimisation; Markov decision process (MDP) model; Deep reinforcement learning; Prioritised experience replay and softmax strategy-based dueling; Double deep Q-network	Ai, T.; Huang, L.; Song, R.J.; Huang, H.F.; Jiao, F.; Ma, W.G. (2023). An improved deep reinforcement learning approach: A case study for optimisation of berth and yard scheduling for bulk cargo terminal, <i>Advances in Production Engineering & Management</i> , Vol. 18, No. 3, 303-316, https://doi.org/10.14743/apem2023.3.474
473	Amin, M.; Rathore, M.F.; Ahmed, A.A.; Saleem, W.; Li, Q.; Israr, A.	A feed direction cutting force prediction model and analysis for ceramic matrix composites C/SiC based on rotary ultrasonic profile milling,	2023, 18(3), 288-302, 10.14743/apem2023.3.473	Rotary ultrasonic profile milling; Modeling; Ceramic matrix composites C/SiC; Brittle fracture; Cutting force; Machining process optimization	Amin, M.; Rathore, M.F.; Ahmed, A.A.; Saleem, W.; Li, Q.; Israr, A. (2023). A feed direction cutting force prediction model and analysis for ceramic matrix composites C/SiC based on rotary

					ultrasonic profile milling, <i>Advances in Production Engineering & Management</i> , Vol. 18, No. 3, 288-302, https://doi.org/10.14743/apem2023.3.473
472	Peng, F.; Zheng, L.	An improved multi-objective Wild Horse optimization for the dual-resource-constrained flexible job shop scheduling problem: A comparative analysis with NSGA-II and a real case study	2023, 18(3), 271-287, 10.14743/apem2023.3.472	Dual resource constraints; Flexible job shop scheduling; Wild horse optimization; Local search; Multi-objective optimization; NSGA-II; Benchmark analysis	Peng, F.; Zheng, L. (2023). An improved multi-objective Wild Horse optimization for the dual-resource-constrained flexible job shop scheduling problem: A comparative analysis with NSGA-II and a real case study, <i>Advances in Production Engineering & Management</i> , Vol. 18, No. 3, 271-287, https://doi.org/10.14743/apem2023.3.472
471	Bojic, S.; Maslaric, M.; Mircetic, D.; Nikolicic, S.; Todorovic, V.	Simulation and Genetic Algorithm-based approach for multi-objective optimization of production planning: A case study in industry	2023, 18(2), 250-262, 10.14743/apem2023.2.471	Discrete event simulation (DES); Genetic algorithm (GA); Production planning; Multi-objective optimization; Textile industry; Tecnomatix Plant Simulation software	Bojic, S.; Maslaric, M.; Mircetic, D.; Nikolicic, S.; Todorovic, V. (2023). Simulation and Genetic Algorithm-based approach for multi-objective optimization of production planning: A case study in industry, <i>Advances in Production Engineering & Management</i> , Vol. 18, No. 2, 250-262, https://doi.org/10.14743/apem2023.2.471
470	Nguyen, T.P.Q.; Yang, C.L.; Le, M.D.; Nguyen, T.T.; Luu, M.T.	Enhancing automated defect detection through sequential clustering and classification: An industrial case study using the Sine-Cosine Algorithm, Possibilistic Fuzzy c-means, and Artificial Neural Network	2023, 18(2), 237-249, 10.14743/apem2023.2.470	Back Propagation Neural Network; Clustering; Classification; Combined SCA-PFCM; Defect detection; Nipper manufacturing; Possibilistic Fuzzy c-means (PFCM); Root cause analysis; Sine-Cosine Algorithm (SCA)	Nguyen, T.P.Q.; Yang, C.L.; Le, M.D.; Nguyen, T.T.; Luu, M.T. (2023). Enhancing automated defect detection through sequential clustering and classification: An industrial case study using the Sine-Cosine Algorithm, Possibilistic Fuzzy c-means, and Artificial Neural Network, <i>Advances in Production Engineering & Management</i> , Vol. 18, No. 2, 237-249, https://doi.org/10.14743/apem2023.2.470
469	Wang, T.Y.; Zhang, H.	Blockchain-based tripartite evolutionary game study of manufacturing capacity sharing,	2023, 18(2), 225-236, 10.14743/apem2023.2.469	Blockchain; Manufacturing; Capacity sharing; Tripartite evolutionary game; Simulation; MATLAB	Wang, T.Y.; Zhang, H. (2023). Blockchain-based tripartite evolutionary game study of manufacturing capacity sharing, <i>Advances in Production Engineering & Management</i> , Vol. 18, No. 2, 225-236, https://doi.org/10.14743/apem2023.2.469
468	Li, K.; Li, D.; Ma, H.Q.	An improved discrete particle swarm optimization approach for a multi-objective optimization model of an urban logistics distribution network considering traffic congestion	2023, 18(2), 211-224, 10.14743/apem2023.2.468	Urban logistics distribution network; Traffic congestion; Optimization; Modelling; Multi-objective optimization; Vehicle routing problem (VRP); Swarm intelligence; Discrete particle swarm optimization algorithm (DPSO)	Li, K.; Li, D.; Ma, H.Q. (2023). An improved discrete particle swarm optimization approach for a multi-objective optimization model of an urban logistics distribution network considering traffic congestion, <i>Advances in Production Engineering & Management</i> , Vol. 18, No. 2, 211-224, https://doi.org/10.14743/apem2023.2.468
467	Kondic, V.; Maglic, L.; Runje, L.; Maric, D.	Ranking dominant losses in small and medium-sized enterprises (SMEs) in the context of the lean concept application	2023, 18(2), 199-210, 10.14743/apem2023.2.467	Manufacturing; Small and medium-sized enterprises (SMEs); Lean manufacturing; Dominant losses; Ranking; Analysis of losses; Elimination of losses	Kondic, V.; Maglic, L.; Runje, L.; Maric, D. (2023). Ranking dominant losses in small and medium-sized enterprises (SMEs) in the context of the lean concept application, <i>Advances in Production Engineering & Management</i> , Vol. 18, No. 2, 199-210, https://doi.org/10.14743/apem2023.2.467
466	Fortes, C.S.; Tenera, A.B.; Cunha, P.F.; Teixeira, J.P.	Engineering-to-order manufacturing: A criticality analysis of key challenges and solutions based on literature review	2023, 18(2), 187-198, 10.14743/apem2023.2.466	Communication and collaboration; Critical factors; Decision-making; Engineer-to-order; Literature review; Production planning and control; Production scheduling; Resource allocation; Workflow optimisation	Fortes, C.S.; Tenera, A.B.; Cunha, P.F.; Teixeira, J.P. (2023). Engineering-to-order manufacturing: A criticality analysis of key challenges and solutions based on literature review, <i>Advances in Production Engineering & Management</i> , Vol. 18, No. 2, 187-198, https://doi.org/10.14743/apem2023.2.466
465	Cao, X.H.; Shi, X.L.; Lan, H.J.; Huang, D.	When core sorting and quality grading is beneficial to remanufacturers: Insights from analytical models	2023, 18(2), 175-186, 10.14743/apem2023.2.465	Remanufacturing; Product (core) acquisition management; Core sorting; Quality grading; Optimization; Analytical models; Cost-effectiveness	Cao, X.H.; Shi, X.L.; Lan, H.J.; Huang, D. (2023). When core sorting and quality grading is beneficial to remanufacturers: Insights from analytical models, <i>Advances in Production Engineering & Management</i> , Vol. 18, No. 2, 175-186, https://doi.org/10.14743/apem2023.2.465
464	Munoz-Ibanez, C.; Chairez, I.; Jimenez-Martinez, M.; Molina, A.; Alfaro-Ponce, M.	Hybrid forecasting modelling of cost and time entities for planning and optimizing projects in the die-cast aluminium industry	2023, 18(2), 163-174, 10.14743/apem2023.2.464	Hybrid models; Entity modelling; Project planning; Forecasting models; Aluminium die-casting; Cost factors; Time factors; Optimization	Munoz-Ibanez, C.; Chairez, I.; Jimenez-Martinez, M.; Molina, A.; Alfaro-Ponce, M. (2023). Hybrid forecasting modelling of cost and time entities for planning and optimizing projects in the die-cast aluminium industry, <i>Advances in Production Engineering & Management</i> , Vol. 18, No. 2, 163-174, https://doi.org/10.14743/apem2023.2.464
463	Han, J.H.; Lee, J.Y.	Genetic algorithm-based approach for makespan minimization in a flow shop with queue time limits and skip-ping jobs	2023, 18(2), 152-162, 10.14743/apem2023.2.463	Scheduling; Flow shop; Makespan; Queue time limits; Skipping jobs; Optimization; Modeling; Genetic algorithm	Han, J.H.; Lee, J.Y. (2023). Genetic algorithm-based approach for makespan minimization in a flow shop with queue time limits and skip-ping jobs, <i>Advances in Production Engineering & Management</i> , Vol. 18, No. 2, 152-162, https://doi.org/10.14743/apem2023.2.463
462	Sun, Z.Y.; Han, W.M.; Gao, L.L.	Real-time scheduling for dynamic workshops with random new job insertions by using deep reinforcement learning	2023, 18(2), 137-151, 10.14743/apem2023.2.462	Real-time scheduling; Machine learning; Deep reinforcement learning (DRL); Spatial pyramid pooling layer; Artificial neural networks (ANN); Convolutional neural networks (CNN)	Sun, Z.Y.; Han, W.M.; Gao, L.L. (2023). Real-time scheduling for dynamic workshops with random new job insertions by using deep reinforcement learning, <i>Advances in Production Engineering & Management</i> , Vol. 18, No. 2, 137-151, https://doi.org/10.14743/apem2023.2.462
461	Ali, M.A.; Alarjani, A.; Mumtaz, M.A.	A NSGA-II based approach for multi-objective optimization of a reconfigurable manufacturing transfer line supported by Digital Twin: A case study	2023, 18(1), 116-129, 10.14743/apem2023.1.461	Reconfigurable manufacturing system; Digital twin; Multi-objective optimization; Evolutionary computation; Evolutionary algorithm; Non-dominated sorting genetic algorithm-II (NSGA-II); Reconfigurable machine tools; Smart manufacturing	Ali, M.A.; Alarjani, A.; Mumtaz, M.A. (2023). A NSGA-II based approach for multi-objective optimization of a reconfigurable manufacturing transfer line supported by Digital Twin: A case study, <i>Advances in Production Engineering & Management</i> , Vol. 18, No. 1, 116-129, https://doi.org/10.14743/apem2023.1.461
460	Wang, Y.L.; Yang, L.; Chen, J.H.; Li, P.	Supply chain game analysis based on mean-variance and price risk aversion under different power structures	2023, 18(1), 104-115, 10.14743/apem2023.1.460	Supply chain game; Mean-variance; Retail price risk aversion; Different power structures; Game theory; Vertical Nash game; Retailer Stackelberg game; Manufacturer Stackelberg game	Wang, Y.L.; Yang, L.; Chen, J.H.; Li, P. (2023). Supply chain game analysis based on mean-variance and price risk aversion under different power structures, <i>Advances in Production Engineering & Management</i> , Vol. 18, No. 1, 104-115, https://doi.org/10.14743/apem2023.1.460
459	van Erp, T.; Rytter, N.G.M.	Design and operations framework for the Twin Transition of manufacturing systems	2023, 18(1), 92-103, 10.14743/apem2023.1.459	Manufacturing systems design; Circular economy; Sustainability; Digital twin; Twin transition; Digital transition; Design and operations (DesOps)	van Erp, T.; Rytter, N.G.M. (2023). Design and operations framework for the Twin Transition of manufacturing systems, <i>Advances in Production Engineering & Management</i> , Vol. 18, No. 1, 92-103, https://doi.org/10.14743/apem2023.1.459
458	Beskovnik, B.	Supply chain engineering: Considering parameters for sustainable overseas intermodal transport of small consignments	2023, 18(1), 79-91, 10.14743/apem2023.1.458	Supply chain; Engineering; Intermodal transport; Sustainability; Low-carbon transport; Energy efficiency; Small overseas shipments; Green port; Energy efficiency	Beskovnik, B. (2023). Supply chain engineering: Considering parameters for sustainable overseas intermodal transport of small consignments, <i>Advances in Production Engineering & Management</i> , Vol. 18, No. 1, 79-91, https://doi.org/10.14743/apem2023.1.458
457	Altarazi, S.; Shqair, M.	Hierarchical hybrid simulation optimization of the pharmaceutical supply chain	2023, 18(1), 66-78, 10.14743/apem2023.1.457	System dynamics; Discrete-event; Simulation optimization; Hybrid simulation; Scatter search; Tabu search; Artificial neural networks (ANN); AnyLogic simulation software; OptQuest optimization package; Pharmaceutical supply chain	Altarazi, S.; Shqair, M. (2023). Hierarchical hybrid simulation optimization of the pharmaceutical supply chain, <i>Advances in Production Engineering & Management</i> , Vol. 18, No. 1, 66-78, https://doi.org/10.14743/apem2023.1.457
456	Bi, Q.L.; Lai, M.L.; Chen, K.; Liu, J.M.; Tang, H.L.; Teng, X.B.; Guo, Y.Y.	Spatial position recognition method of semi-transparent and flexible workpieces: A machine vision based on red light assisted	2023, 18(1), 49-65, 10.14743/apem2023.1.456	Machine vision; Image processing; Visual recognition; Feature matching; Imaging quality; Red light; Translucent and flexible workpieces; Infusion tube drip bucket; Smart manufacturing	Bi, Q.L.; Lai, M.L.; Chen, K.; Liu, J.M.; Tang, H.L.; Teng, X.B.; Guo, Y.Y. (2023). Spatial position recognition method of semi-transparent and flexible workpieces: A machine vision based on red light assisted, <i>Advances in Production Engineering & Management</i> , Vol. 18, No. 1, 49-65, https://doi.org/10.14743/apem2023.1.456

455	Ly Duc, M.; Hlavaty, L.; Bilik, P.; Martinek, R.	Enhancing manufacturing excellence with Lean Six Sigma and zero defects based on Industry 4.0	2023, 18(1), 32-48, 10.14743/apem2023.1.455	Lean Six Sigma; Industry 4.0; Manufacturing; Smart manufacturing; Zero defect manufacturing; DMAIC (Define-Measure-Analysis-Improve-Control); Computer vision	Ly Duc, M.; Hlavaty, L.; Bilik, P.; Martinek, R. (2023). Enhancing manufacturing excellence with Lean Six Sigma and zero defects based on Industry 4.0, <i>Advances in Production Engineering & Management</i> , Vol. 18, No. 1, 32-48, https://doi.org/10.14743/apem2023.1.455
454	Guzman, E.; Poler, R.; Andres, B.	A matheuristic approach combining genetic algorithm and mixed integer linear programming model for production and distribution planning in the supply chain	2023, 18(1), 19-31, 10.14743/apem2023.1.454	Production and distribution planning; Supply chain; Matheuristic; Genetic algorithm; Mixed integer linear programming model	Guzman, E.; Poler, R.; Andres, B. (2023). A matheuristic approach combining genetic algorithm and mixed integer linear programming model for production and distribution planning in the supply chain, <i>Advances in Production Engineering & Management</i> , Vol. 18, No. 1, 19-31, https://doi.org/10.14743/apem2023.1.454
453	Ding, F.X.; Liu, S.F.; Li, X.W.	An innovative framework for sustainable and centralized material procurement management based on a full-domain set theory	2023, 18(1), 5-18, 10.14743/apem2023.1.453	Centralized procurement; Full-domain set theory; Big data; Intelligent procurement; Smart manufacturing; Analytics; Artificial intelligence; Cloud computing and manufacturing	Ding, F.X.; Liu, S.F.; Li, X.W. (2023). An innovative framework for sustainable and centralized material procurement management based on a full-domain set theory, <i>Advances in Production Engineering & Management</i> , Vol. 18, No. 1, 5-18, https://doi.org/10.14743/apem2023.1.453

Please scroll down for continuation...

Papers published in 2022, Volume 17

#	Authors	Paper title	2022, Vol(No), Pages, DOI	Key words	Citation data
452	Wang, Y.J.; Liu, X.Q.; Leng, J.Y.; Wang, J.J.; Meng, Q.N.; Zhou, M.J.	Study on scheduling and path planning problems of multi-AGVs based on a heuristic algorithm in intelligent manufacturing workshop	2022, 17(4), 505-513, 10.14743/apem2022.4.452	Intelligent manufacturing; Automated guided vehicle(AGV); Multi-AGVs; Task sequence; Task scheduling; Path planning; Heuristic algorithm; Ant colony algorithm; MATLAB	Wang, Y.J.; Liu, X.Q.; Leng, J.Y.; Wang, J.J.; Meng, Q.N.; Zhou, M.J. (2022). Study on scheduling and path planning problems of multi-AGVs based on a heuristic algorithm in intelligent manufacturing workshop, <i>Advances in Production Engineering & Management</i> , Vol. 17, No. 4, 505-513, https://doi.org/10.14743/apem2022.4.452
451	Javernik, A.; Buchmeister, B.; Ojstersek, R.	Impact of Cobot parameters on the worker productivity: Optimization challenge	2022, 17(4), 494-504, 10.14743/apem2022.4.451	Collaborative robot; Cobot; Collaborative operation; Robot parameters; Worker productivity; Working scenarios; Manufacturing efficiency; Optimization	Javernik, A.; Buchmeister, B.; Ojstersek, R. (2022). Impact of Cobot parameters on the worker productivity: Optimization challenge, <i>Advances in Production Engineering & Management</i> , Vol. 17, No. 4, 494-504, https://doi.org/10.14743/apem2022.4.451
450	Xu, G.Y.; Liu, H.; Duan, H.W.	Cause-related marketing strategy in a supply chain: A theoretical analysis and a case study	2022, 17(4), 479-493, 10.14743/apem2022.4.450	Supply chain management; Cause-related marketing; Corporate social responsibility; Optimal decision; Stackelberg game	Xu, G.Y.; Liu, H.; Duan, H.W. (2022). Cause-related marketing strategy in a supply chain: A theoretical analysis and a case study, <i>Advances in Production Engineering & Management</i> , Vol. 17, No. 4, 479-493, https://doi.org/10.14743/apem2022.4.450
449	Kovacic, M.; Zuperl, U.; Brezocnik, M.	Optimization of the rhomboidity of continuously cast billets using linear regression and genetic programming: A real industrial study	2022, 17(4), 469-478, 10.14743/apem2022.4.449	Continuous casting of steel; Casting defects; Rhombic distortion; Rhomboidity; Machine learning; Modelling; Optimization; Prediction; Linear regression; Genetic programming	Kovacic, M.; Zuperl, U.; Brezocnik, M. (2022). Optimization of the rhomboidity of continuously cast billets using linear regression and genetic programming: A real industrial study, <i>Advances in Production Engineering & Management</i> , Vol. 17, No. 4, 469-478, https://doi.org/10.14743/apem2022.4.449
448	Patalas-Maliszewska, J.; Losyk, H.	An approach to maintenance sustainability level assessment integrated with Industry 4.0 technologies using Fuzzy-TOPSIS: A real case study	2022, 17(4), 455-468, 10.14743/apem2022.4.448	Maintenance sustainability (MS); Assessment; Manufacturing; Industry 4.0; Multi-criteria decision making (MCDM); Fuzzy Technique for Order of Preference by Similarity to Ideal Solution (Fuzzy TOPSIS); Empirical research; Real case studies	Patalas-Maliszewska, J.; Losyk, H. (2022). An approach to maintenance sustainability level assessment integrated with Industry 4.0 technologies using Fuzzy-TOPSIS: A real case study, <i>Advances in Production Engineering & Management</i> , Vol. 17, No. 4, 455-468, https://doi.org/10.14743/apem2022.4.448
447	Niu, X.Y.; Liu, S.F.; Huang, Q.L.	End-of-line delivery vehicle routing optimization based on large-scale neighbourhood search algorithms considering customer-consumer delivery location preferences	2022, 17(4), 439-454, 10.14743/apem2022.4.447	Distribution; Vehicle routing; Optimization; Path optimization; End-of-line; Large-scale neighbourhood search algorithm	Niu, X.Y.; Liu, S.F.; Huang, Q.L. (2022). End-of-line delivery vehicle routing optimization based on large-scale neighbourhood search algorithms considering customer-consumer delivery location preferences, <i>Advances in Production Engineering & Management</i> , Vol. 17, No. 4, 439-454, https://doi.org/10.14743/apem2022.4.447
446	Wang, Y.D.; Lu, X.C.; Song, Y.M.; Feng, Y.; Shen, J.R.	Monte Carlo Tree Search improved Genetic Algorithm for unmanned vehicle routing problem with path flexibility	2022, 17(4), 425-438, 10.14743/apem2022.4.446	Unmanned vehicle; Path flexibility; Vehicle routing problem; Genetic Algorithm (GA); Monte Carlo Tree Search algorithm (MCTS); COVID-19; Pandemics	Wang, Y.D.; Lu, X.C.; Song, Y.M.; Feng, Y.; Shen, J.R. (2022). Monte Carlo Tree Search improved Genetic Algorithm for unmanned vehicle routing problem with path flexibility, <i>Advances in Production Engineering & Management</i> , Vol. 17, No. 4, 425-438, https://doi.org/10.14743/apem2022.4.446
445	Wan, J.	Demand prediction and optimization of workshop manufacturing resources allocation: A new method and a case study	2022, 17(4), 413-424, 10.14743/apem2022.4.445	Manufacturing resources; Resource demand; Allocation; Optimization; Simulation; Modelling; Prediction	Wan, J. (2022). Demand prediction and optimization of workshop manufacturing resources allocation: A new method and a case study, <i>Advances in Production Engineering & Management</i> , Vol. 17, No. 4, 413-424, https://doi.org/10.14743/apem2022.4.445
444	Yang, S.L.; Wang, J.Y.; Xin, L.M.; Xu, Z.G.	Verification of intelligent scheduling based on deep reinforcement learning for distributed workshops via discrete event simulation	2022, 17(4), 401-412, 10.14743/apem2022.4.444	Production scheduling; Distributed flowshop scheduling; Discrete event simulation (DES); Deep reinforcement learning; Production simulation; Modelling; Scheduling verification; Plant Simulation software	Yang, S.L.; Wang, J.Y.; Xin, L.M.; Xu, Z.G. (2022). Verification of intelligent scheduling based on deep reinforcement learning for distributed workshops via discrete event simulation, <i>Advances in Production Engineering & Management</i> , Vol. 17, No. 4, 401-412, https://doi.org/10.14743/apem2022.4.444
443	Kousar, S.; Batool, M.; Kausar, N.; Pamucar, D.; Ozbilge, E.; Tantay, B.	Multi-objective Intuitionistic Fuzzy Linear Programming model for optimization of industrial closed-loop supply chain network	2022, 17(3), 381-393, 10.14743/apem2022.3.443	Supply chain; Closed-loop supply chain; Multi-objective linear programming; Modelling; Optimization; Fuzzy logic; Intuitionistic fuzzy numbers	Kousar, S.; Batool, M.; Kausar, N.; Pamucar, D.; Ozbilge, E.; Tantay, B. (2022). Multi-objective Intuitionistic Fuzzy Linear Programming model for optimization of industrial closed-loop supply chain network, <i>Advances in Production Engineering & Management</i> , Vol. 17, No. 3, 381-393, https://doi.org/10.14743/apem2022.2.434
442	Vukelic, D.; Simunovic, K.; Kanovic, Z.; Saric, T.; Doroslovacki, K.; Prica, M.; Simunovic, G.	Modelling surface roughness in finish turning as a function of cutting tool geometry using the response surface method, Gaussian process regression and decision tree regression	2022, 17(3), 367-380, 10.14743/apem2022.3.442	Turning; Tool geometry; Modelling; Surface roughness; Response surface method; Decision tree regression; Gaussian process regression	Vukelic, D.; Simunovic, K.; Kanovic, Z.; Saric, T.; Doroslovacki, K.; Prica, M.; Simunovic, G. (2022). Modelling surface roughness in finish turning as a function of cutting tool geometry using the response surface method, Gaussian process regression and decision tree regression, <i>Advances in Production Engineering & Management</i> , Vol. 17, No. 3, 367-380, https://doi.org/10.14743/apem2022.2.433
441	Huang, Q.L.; Wang, W.J.; Liang, X.J.; Xu, L.; Niu, X.Y.; Yang, X.Y.	Last-mile delivery optimization considering the demand of market distribution methods: A case studies using Adaptive Large Neighborhood Search algorithm	2022, 17(3), 350-366, 10.14743/apem2022.3.441	Transportation; Last mile; Adaptive Large Neighborhood Search (ALNS); Market demand; Logistics; Distribution; Optimization; Heuristic algorithms	Huang, Q.L.; Wang, W.J.; Liang, X.J.; Xu, L.; Niu, X.Y.; Yang, X.Y. (2022). Last-mile delivery optimization considering the demand of market distribution methods: A case studies using Adaptive Large Neighborhood Search algorithm, <i>Advances in Production Engineering & Management</i> , Vol. 17, No. 3, 350-366, https://doi.org/10.14743/apem2022.2.432
440	Lipus, L.C.; Acko, B.; Tompa, J.	Experimental determination of influences on a gauge block's stack length	2022, 17(3), 339-349, 10.14743/apem2022.3.440	Gauge blocks; Wringing; Measurement uncertainty; Dimensional metrology	Lipus, L.C.; Acko, B.; Tompa, J. (2022). Experimental determination of influences on a gauge block's stack length, <i>Advances in Production Engineering & Management</i> , Vol. 17, No. 3, 339-349, https://doi.org/10.14743/apem2022.2.431
439	Tian, S.; Zhang, Z.; Xie, X.; Yu, C.	A new approach for quality prediction and control of multistage production and manufacturing process based on Big Data analysis and Neural Networks	2022, 17(3), 326-338, 10.14743/apem2022.3.439	Big data analysis; Multistage production and manufacturing process (MPMP); Quality prediction; Machine learning; Artificial neural network; Recurrent neural network; Bidirectional long short-term memory (BiLSTM)	Tian, S.; Zhang, Z.; Xie, X.; Yu, C. (2022). A new approach for quality prediction and control of multistage production and manufacturing process based on Big Data analysis and Neural Networks, <i>Advances in Production Engineering & Management</i> , Vol. 17, No. 3, 326-338, https://doi.org/10.14743/apem2022.2.430
438	Stefanovska, E.; Pepelnjak, T.	Development of a flexible tooling system for sheet metal bending	2022, 17(3), 311-325, 10.14743/apem2022.3.438	Sheet metal forming; Finite element analysis (FEM); Computer-aided design (CAD); Flexible tooling system; Cyber-physical systems; Smart manufacturing; Industry 4.0; Digital twin	Stefanovska, E.; Pepelnjak, T. (2022). Development of a flexible tooling system for sheet metal bending, <i>Advances in Production Engineering & Management</i> , Vol. 17, No. 3, 311-325, https://doi.org/10.14743/apem2022.2.429
437	Xiao, M.; Tian, Z.Y.	Evolutionary game analysis of company collaborative strategy in cloud manufacturing platform environment	2022, 17(3), 295-310, 10.14743/apem2022.3.437	Cloud manufacturing platform; Manufacturing company; Collaborative cooperation; Evolutionary game; Simulation; MATLAB programming platform	Xiao, M.; Tian, Z.Y. (2022). Evolutionary game analysis of company collaborative strategy in cloud manufacturing platform environment, <i>Advances in Production Engineering & Management</i> , Vol. 17, No. 3, 295-310, https://doi.org/10.14743/apem2022.2.428
436	Tripathy, C.R.; Sharma, R.K.; Rattan, V.K.	Effect of printing parameters on the mechanical behaviour of the thermoplastic polymer processed by FDM technique: A research review	2022, 17(3), 279-294, 10.14743/apem2022.3.436	3D printing; Additive manufacturing; Fused deposition modeling (FDM); Process parameters; Mechanical properties; Thermoplastic polymer; Review study	Tripathy, C.R.; Sharma, R.K.; Rattan, V.K. (2022). Effect of printing parameters on the mechanical behaviour of the thermoplastic polymer processed by FDM technique: A research review, <i>Advances in Production Engineering & Management</i> , Vol. 17, No. 3, 279-294, https://doi.org/10.14743/apem2022.2.427

435	Duan, H.W.; Wang, M.T.; Ye, Y.S.	Financing and information sharing in capital-constrained supply chain	2022, 17(3), 263-278, 10.14743/apem2022.3.435	Supply chain; Capital constraint; Information sharing; Financing choice; Game equilibrium	Duan, H.W.; Wang, M.T.; Ye, Y.S. (2022). Financing and information sharing in capital-constrained supply chain, <i>Advances in Production Engineering & Management</i> , Vol. 17, No. 3, 263-278, https://doi.org/10.14743/apem2022.3.435
434	Butrat, A.; Supsomboon, S.	A Plant Simulation approach for optimal resource utilization: A case study in the tire manufacturing industry	2022, 17(2), 243-255, 10.14743/apem2022.2.434	Manufacturing; Resource utilization; Bottleneck; Optimization; Simulation modelling; Discrete-event simulation (DES); Discrete empirical distribution; Tires; Rubber; Banbury mixer; Tecnomatix Plant Simulation	Butrat, A.; Supsomboon, S. (2022). A Plant Simulation approach for optimal resource utilization: A case study in the tire manufacturing industry, <i>Advances in Production Engineering & Management</i> , Vol. 17, No. 2, 243-255, https://doi.org/10.14743/apem2022.2.434
433	Kozem Silih, E.; Premrov, M.	Numerical study of racking resistance of timber-made double-skin facade elements	2022, 17(2), 231-242, 10.14743/apem2022.2.433	Timber; Glass; Double-skin façades; Racking resistance; Mathematical modelling; Numerical analysis; Finite Elements Methods (FEM)	Kozem Silih, E.; Premrov, M. (2022). Numerical study of racking resistance of timber-made double-skin facade elements, <i>Advances in Production Engineering & Management</i> , Vol. 17, No. 2, 231-242, https://doi.org/10.14743/apem2022.2.433
432	Wang, Y.L.; Yin, X.M.; Zheng, X.Y.; Cai, J.R.; Fang, X.	Supply chain coordination contract design: The case of farmer with capital constraints and behavioral preferences	2022, 17(2), 219-230, 10.14743/apem2022.2.432	Supply chain; Supply chain coordination; Contract design; Capital constraints; Waste-averse preferences; Stockout-averse preferences; Behavioral preferences	Wang, Y.L.; Yin, X.M.; Zheng, X.Y.; Cai, J.R.; Fang, X. (2022). Supply chain coordination contract design: The case of farmer with capital constraints and behavioral preferences, <i>Advances in Production Engineering & Management</i> , Vol. 17, No. 2, 219-230, https://doi.org/10.14743/apem2022.2.432
431	Umer, U.; Mohammed, M.K.; Abidi, M.H.; Alkhalefah, H.; Kishawy, H.A.	Machinability analysis and multi-response optimization using NGA-II algorithm for particle reinforced aluminum based metal matrix composites	2022, 17(2), 205-218, 10.14743/apem2022.2.431	Metal Matrix Composites (MMC); Machining; Reinforcement particle; Machinability; Multi-objective optimization; Non-dominated sorting genetic algorithm (NSGA-II)	Umer, U.; Mohammed, M.K.; Abidi, M.H.; Alkhalefah, H.; Kishawy, H.A. (2022). Machinability analysis and multi-response optimization using NGA-II algorithm for particle reinforced aluminum based metal matrix composites, <i>Advances in Production Engineering & Management</i> , Vol. 17, No. 2, 205-218, https://doi.org/10.14743/apem2022.2.431
430	Liu, X.; Wang, J.; Zhu, J.; Liew, P.J.; Li, C.; Huang, C.	Ultrasonic abrasive polishing of additive manufactured parts: An experimental study on the effects of process parameters on polishing performance	2022, 17(2), 193-204, 10.14743/apem2022.2.430	Additive manufacturing; 3D printing; Selective laser melting (SLM); Ultrasonic abrasive polishing; Process parameters; Surface roughness; Material removal rate; Orthogonal array tests	Liu, X.; Wang, J.; Zhu, J.; Liew, P.J.; Li, C.; Huang, C. (2022). Ultrasonic abrasive polishing of additive manufactured parts: An experimental study on the effects of process parameters on polishing performance, <i>Advances in Production Engineering & Management</i> , Vol. 17, No. 2, 193-204, https://doi.org/10.14743/apem2022.2.430
429	Han, X.; Zhao, P.X.; Kong, D.X.	A bi-objective optimization of airport ferry vehicle scheduling based on heuristic algorithm: A real data case study	2022, 17(2), 121-133, 10.14743/apem2022.2.429	Ferry vehicle; Vehicle routing; Bi-objective optimization; Heuristic algorithm; Strict equalization algorithm; Relaxed equalization algorithm; Transplantation algorithm	Han, X.; Zhao, P.X.; Kong, D.X. (2022). A bi-objective optimization of airport ferry vehicle scheduling based on heuristic algorithm: A real data case study, <i>Advances in Production Engineering & Management</i> , Vol. 17, No. 2, 121-133, https://doi.org/10.14743/apem2022.2.429
428	Jian, M.; Liu, T.; Hayrutdinov, S.; Fu, H.	Supply chain coordination based on the probability optimization of target profit	2022, 17(2), 169-182, 10.14743/apem2022.2.428	Supply chain; Coordination; Contractual coordination; Revenue-sharing contract; Buyback contract; Profit target; Optimization; Probability optimization	Jian, M.; Liu, T.; Hayrutdinov, S.; Fu, H. (2022). Supply chain coordination based on the probability optimization of target profit, <i>Advances in Production Engineering & Management</i> , Vol. 17, No. 2, 169-182, https://doi.org/10.14743/apem2022.2.428
427	Kupilas, K.J.; Rodriguez Montequin, V.; Diaz Piloneta, M.; Alonso Alvarez, C.	Sustainability and digitalisation: Using Means-End Chain Theory to determine the key elements of the digital maturity model for research and development organisations with the aspect of sustainability	2022, 17(2), 152-168, 10.14743/apem2022.2.427	Sustainability; Digitalisation; Digital transformation; Means-End Chain Theory (MEC); Research and development (R&D)	Kupilas, K.J.; Rodriguez Montequin, V.; Diaz Piloneta, M.; Alonso Alvarez, C. (2022). Sustainability and digitalisation: Using Means-End Chain Theory to determine the key elements of the digital maturity model for research and development organisations with the aspect of sustainability, <i>Advances in Production Engineering & Management</i> , Vol. 17, No. 2, 152-168, https://doi.org/10.14743/apem2022.2.427
426	Yang, L.; Yang, B.; Yang, G.W.; Xiao, S.N.; Zhu, T.; Wang, F.	A method for prediction of S-N curve of spot-welded joints based on numerical simulation	2022, 17(2), 141-151, 10.14743/apem2022.2.426	Spot-welded joints; Simulation; Numerical simulation; Finite element methods (FEM); S-N curve; Prediction method; Equivalent structural stress	Yang, L.; Yang, B.; Yang, G.W.; Xiao, S.N.; Zhu, T.; Wang, F. (2022). A method for prediction of S-N curve of spot-welded joints based on numerical simulation, <i>Advances in Production Engineering & Management</i> , Vol. 17, No. 2, 141-151, https://doi.org/10.14743/apem2022.2.426
425	Jin, C.; Lu, L.J.; Min, J.N.	A two-stage construction heuristic approach for vehicle routing problem with split deliveries and pickups: Case studies and performance comparison	2022, 17(1), 121-133, 10.14743/apem2022.1.425	Vehicle routing; Split deliveries and pickups; Two-stage construction heuristic; Clustering first and routing later; Partitioning algorithms; Modified Clarke-Wright savings algorithm	Jin, C.; Lu, L.J.; Min, J.N. (2022). A two-stage construction heuristic approach for vehicle routing problem with split deliveries and pickups: Case studies and performance comparison, <i>Advances in Production Engineering & Management</i> , Vol. 17, No. 1, 121-133, https://doi.org/10.14743/apem2022.1.425
424	Zhao, G.; Shi, H.B.; Wang, J.F.	The influence of artificial intelligence technology judicial decision reasoning on contract performance in manufacturing supply chain: A simulation analysis using Evolutionary Game approach	2022, 17(1), 108-120, 10.14743/apem2022.1.424	Evolutionary game; Artificial intelligence; Manufacturing; Manufacturers; Supply chain; Contract performance; Court; Modelling; Evolutionary stabilization strategy	Zhao, G.; Shi, H.B.; Wang, J.F. (2022). The influence of artificial intelligence technology judicial decision reasoning on contract performance in manufacturing supply chain: A simulation analysis using Evolutionary Game approach, <i>Advances in Production Engineering & Management</i> , Vol. 17, No. 1, 108-120, https://doi.org/10.14743/apem2022.1.424
423	Rudolf, R.; Jelen, Z.; Zdravec, M.; Majeric, P.; Jovic, Z.; Vuksanovic, M.; Stankovic, I.; Matija, L.; Dragicevic, A.; Miso Thompson, N.; Horvat, A.; Koruga, D.	A gold nanoparticles and hydroxylated fullerene water complex as a new product for cosmetics	2022, 17(1), 89-107, 10.14743/apem2022.1.423	Gold nanoparticles (AuNPs); Freeze drying; Characterisation; Hydroxylate fullerene water complex (3HFWC-W); Collagen; Skin hydration; Epidermis-dermis function; Skin function; Anti-ageing	Rudolf, R.; Jelen, Z.; Zdravec, M.; Majeric, P.; Jovic, Z.; Vuksanovic, M.; Stankovic, I.; Matija, L.; Dragicevic, A.; Miso Thompson, N.; Horvat, A.; Koruga, D. (2022). A gold nanoparticles and hydroxylated fullerene water complex as a new product for cosmetics, <i>Advances in Production Engineering & Management</i> , Vol. 17, No. 1, 89-107, https://doi.org/10.14743/apem2022.1.423
422	Tomov, M.; Gecevska, V.; Vasileska, E.	Modelling of multiple surface roughness parameters during hard turning: A comparative study between the kinematical-geometrical copying approach and the design of experiments method (DOE)	2022, 17(1), 75-88, 10.14743/apem2022.1.422	Hard turning; Surface roughness; Roughness parameters; Mathematical modelling; Prediction modelling; Design of experiments (DOE); Kinematical-geometrical copying	Tomov, M.; Gecevska, V.; Vasileska, E. (2022). Modelling of multiple surface roughness parameters during hard turning: A comparative study between the kinematical-geometrical copying approach and the design of experiments method (DOE), <i>Advances in Production Engineering & Management</i> , Vol. 17, No. 1, 75-88, https://doi.org/10.14743/apem2022.1.422
421	Kim, Minkyun; Chai, Sangmi	The role of agility in responding to uncertainty: A cognitive perspective,	2022, 17(1), 57-74, 10.14743/apem2022.1.421	Supply chain; Supply chain agility; Uncertainty; Business uncertainty; Supply chain disruption risk; Trust; Performance; Structural equation modeling (SEM); Cognition; Cognitive manufacturing	Kim, Minkyun; Chai, Sangmi (2022). The role of agility in responding to uncertainty: A cognitive perspective, <i>Advances in Production Engineering & Management</i> , Vol. 17, No. 1, 57-74, https://doi.org/10.14743/apem2022.1.421
420	Xu, W.; Sun, H.Y.; Awaga, A.L.; Yan, Y.; Cui, Y.J.	Optimization approaches for solving production scheduling problem: A brief overview and a case study for hybrid flow shop using genetic algorithms	2022, 17(1), 45-56, 10.14743/apem2022.1.420	Scheduling; Production scheduling; Hybrid flow shop; Optimization; Genetic algorithms; Completion time	Xu, W.; Sun, H.Y.; Awaga, A.L.; Yan, Y.; Cui, Y.J. (2022). Optimization approaches for solving production scheduling problem: A brief overview and a case study for hybrid flow shop using genetic algorithms, <i>Advances in Production Engineering & Management</i> , Vol. 17, No. 1, 45-56, https://doi.org/10.14743/apem2022.1.420
419	Elplacy, F.; Samuel, M.; Mostafa, R.	Modelling and simulation of hot direct extrusion process for optimal product characteristics: Single and multi-response optimization approach	2022, 17(1), 33-44, 10.14743/apem2022.1.419	Metal forming; Hot direct extrusion; Eccentricity; Roundness; Modelling; Simulation; Optimization; Single response; Multi-response; DEFORM-3D; MINITAB	Elplacy, F.; Samuel, M.; Mostafa, R. (2022). Modelling and simulation of hot direct extrusion process for optimal product characteristics: Single and multi-response optimization approach, <i>Advances in Production Engineering & Management</i> , Vol. 17, No. 1, 33-44, https://doi.org/10.14743/apem2022.1.419
418	Hrnjica, B.; Behrem, S.	A new multi-objective optimization approach for process parameters optimization during numerical simulation of quenching steel parts	2022, 17(1), 16-32, 10.14743/apem2022.1.418	2D heat transfer; Finite element method; Levenberg-Marquardt algorithm; Multi-objective optimization; Heat	Hrnjica, B.; Behrem, S. (2022). A new multi-objective optimization approach for process parameters optimization during numerical simulation of quenching steel parts, <i>Advances in</i>

				transfer coefficient; Simulation; Modelling; Steel AISI 304	<i>Production Engineering & Management</i> , Vol. 17, No. 1, 16-32, https://doi.org/10.14743/apem2022.1.418
417	Yan, K.; Cui, L.; Zhang, H.; Liu, S.; Zuo, M.	Supply chain information coordination based on blockchain technology: A comparative study with the traditional approach	2022, 17(1), 5-15, 10.14743/apem2022.1.417	Blockchain-based supply chain; Supply chain management; Information management; Operations management; Information-sensitive; Costs	Yan, K.; Cui, L.; Zhang, H.; Liu, S.; Zuo, M. (2022). Supply chain information coordination based on blockchain technology: A comparative study with the traditional approach, <i>Advances in Production Engineering & Management</i> , Vol. 17, No. 1, 5-15, https://doi.org/10.14743/apem2022.1.417

Please scroll down for continuation...

Papers published in 2021, Volume 16

#	Authors	Paper title	2021, Vol(No), Pages, DOI	Key words	Citation data
416	Rosin, F.; Forget, P.; Lamouri, S.; Pellerin, R.	Impact of Industry 4.0 on decision-making in an operational context	2021, 16(4), 500-514, 10.14743/apem2021.4.416	Industry 4.0; Decision-making; Decision types; Autonomous production system; Cyber-physical production systems (CPPS); Human; Human cyber-physical system (HCPS); Lean; Problem solving	Rosin, F.; Forget, P.; Lamouri, S.; Pellerin, R. (2021). Impact of Industry 4.0 on decision-making in an operational context, <i>Advances in Production Engineering & Management</i> , Vol. 16, No. 4, 500-514, https://doi.org/10.14743/apem2021.4.416
415	Nowakowska, M.; Pajeci, M.	Latent class analysis for identification of occupational accident casualty profiles in the selected Polish manufacturing sector	2021, 16(4), 485-499, 10.14743/apem2021.4.415	Manufacturing industry; Occupational accidents; Accident profiles identification; Modelling; Latent class analysis (LCA); Cluster analysis; Model selection	Nowakowska, M.; Pajeci, M. (2021). Latent class analysis for identification of occupational accident casualty profiles in the selected Polish manufacturing sector, <i>Advances in Production Engineering & Management</i> , Vol. 16, No. 4, 485-499, https://doi.org/10.14743/apem2021.4.415
414	Xanthopoulos, A.S.; Koulouriotis, D.E.	A comparative study of different pull control strategies in multi-product manufacturing systems using discrete event simulation	2021, 16(4), 473-484, 10.14743/apem2021.4.414	Discrete event simulation (DES); Open-source software; JaamSim DES software; Multi-product manufacturing; Multi-stage production systems; Pull-type production control strategies	Xanthopoulos, A.S.; Koulouriotis, D.E. (2021). A comparative study of different pull control strategies in multi-product manufacturing systems using discrete event simulation, <i>Advances in Production Engineering & Management</i> , Vol. 16, No. 4, 473-484, https://doi.org/10.14743/apem2021.4.414
413	Yin, C.P.; Zhang, S.T.; Dong, Y.W.; Ye, Q.W.; Li, Q.	Molecular-dynamics study of multi-pulsed ultrafast laser interaction with copper	2021, 16(4), 457-472, 10.14743/apem2021.4.413	Ultrafast laser, Multi-pulsed laser; Ablation; Copper; Modelling and simulation; Two-temperature model; Molecular dynamics; Laser machining	Yin, C.P.; Zhang, S.T.; Dong, Y.W.; Ye, Q.W.; Li, Q. (2021). Molecular-dynamics study of multi-pulsed ultrafast laser interaction with copper, <i>Advances in Production Engineering & Management</i> , Vol. 16, No. 4, 457-472, https://doi.org/10.14743/apem2021.4.413
412	Trung, D.D.; Thinh, H.X.	A multi-criteria decision-making in turning process using the MAIRCA, EAMR, MARCOS and TOPSIS methods: A comparative study	2021, 16(4), 443-456, 10.14743/apem2021.4.412	Turning; Material removal rate (MRR); Surface roughness; Multi-criteria decision-making (MCDM); Multi Attributive Ideal-Real Comparative Analysis (MAIRCA); Evaluation by an Area-based Method of Ranking (EAMR); Measurement of Alternatives and Ranking according to Compromise Solution (MARCOS); Technique for Order of Preference by Similarity to Ideal Solution (TOPSIS); Entropy; Method based on the Removal Effects of Criteria (MEREK)	Trung, D.D.; Thinh, H.X. (2021). A multi-criteria decision-making in turning process using the MAIRCA, EAMR, MARCOS and TOPSIS methods: A comparative study, <i>Advances in Production Engineering & Management</i> , Vol. 16, No. 4, 443-456, https://doi.org/10.14743/apem2021.4.412
411	Ojstersek, R.; Javernik, A.; Buchmeister, B.	The impact of the collaborative workplace on the production system capacity: Simulation modelling vs. real-world application approach	2021, 16(4), 431-442, 10.14743/apem2021.4.411	Simulation modelling; Production system capacity; Industry 5.0; Assembly line; Human-robot collaboration; Collaborative workplace	Ojstersek, R.; Javernik, A.; Buchmeister, B. (2021). The impact of the collaborative workplace on the production system capacity: Simulation modelling vs. real-world application approach, <i>Advances in Production Engineering & Management</i> , Vol. 16, No. 4, 431-442, https://doi.org/10.14743/apem2021.4.411
410	Bun, P.; Grajewski, D.; Gorski, F.	Using augmented reality devices for remote support in manufacturing: A case study and analysis	2021, 16(4), 418-430, 10.14743/apem2021.4.410	Smart manufacturing; Industry 4.0; Remote support; Augmented reality (AR); Virtual reality; HoloLens 2; Ambient noise; Wi-Fi networks	Bun, P.; Grajewski, D.; Gorski, F. (2021). Using augmented reality devices for remote support in manufacturing: A case study and analysis, <i>Advances in Production Engineering & Management</i> , Vol. 16, No. 4, 418-430, https://doi.org/10.14743/apem2021.4.410
409	Banjanovic-Mehmedovic, L.; Karabegovic, I.; Jahic, J.; Omercic, M.	Optimal path planning of a disinfection mobile robot against COVID-19 in a ROS-based research platform	2021, 16(4), 405-417, 10.14743/apem2021.4.409	Disinfection mobile robot; COVID-19; Optimal path planning; Particle Swarm Optimization (PSO); Simultaneous Localization and Mapping (SLAM); Dynamic Window Approach (DWA); Robot Operating System (ROS); ROS-based platform	Banjanovic-Mehmedovic, L.; Karabegovic, I.; Jahic, J.; Omercic, M. (2021). Optimal path planning of a disinfection mobile robot against COVID-19 in a ROS-based research platform, <i>Advances in Production Engineering & Management</i> , Vol. 16, No. 4, 405-417, https://doi.org/10.14743/apem2021.4.409
408	Riedel, A.; Gerlach, J.; Dietsch, M.; Herbst, S.; Engelmann, F.; Brehm, N.; Pfeifroth, T.	A deep learning-based worker assistance system for error prevention: Case study in a real-world manual assembly	2021, 16(4), 393-404, 10.14743/apem2021.4.408	Deep learning; Machine learning; Industry 4.0; Smart manufacturing; Manual assembly; Assistance system; Error prevention; Object detection	Riedel, A.; Gerlach, J.; Dietsch, M.; Herbst, S.; Engelmann, F.; Brehm, N.; Pfeifroth, T. (2021). A deep learning-based worker assistance system for error prevention: Case study in a real-world manual assembly, <i>Advances in Production Engineering & Management</i> , Vol. 16, No. 4, 393-404, https://doi.org/10.14743/apem2021.4.408
407	Xu, E.B.; Yang, M.S.; Li, Y.; Gao, X.Q.; Wang, Z.Y.; Ren, L.J.	A multi-objective selective maintenance optimization method for series-parallel systems using NSGA-III and NSGA-II evolutionary algorithms	2021, 16(3), 372-384, 10.14743/apem2021.3.407	Maintenance; Series-parallel system; Maintenance decision model; Multi-objective optimization; Selective maintenance; Evolutionary algorithms; Non-dominated sorting genetic algorithm; NSGA-II; NSGA-III	Xu, E.B.; Yang, M.S.; Li, Y.; Gao, X.Q.; Wang, Z.Y.; Ren, L.J. (2021). A multi-objective selective maintenance optimization method for series-parallel systems using NSGA-III and NSGA-II evolutionary algorithms, <i>Advances in Production Engineering & Management</i> , Vol. 16, No. 3, 372-384, https://doi.org/10.14743/apem2021.3.407
406	Huang, A.Q.; Zhang, Y.Q.; He, Z.F.; Hua, G.W.; Shi, X.L.	Recharging and transportation scheduling for electric vehicle battery under the swapping mode	2021, 16(3), 359-371, 10.14743/apem2021.3.406	Electric vehicle; Battery recharging; Battery swapping; Battery logistics; Transportation scheduling	Huang, A.Q.; Zhang, Y.Q.; He, Z.F.; Hua, G.W.; Shi, X.L. (2021). Recharging and transportation scheduling for electric vehicle battery under the swapping mode, <i>Advances in Production Engineering & Management</i> , Vol. 16, No. 3, 359-371, https://doi.org/10.14743/apem2021.3.406
405	Hu, Z.C.; Zheng, Z.; He, L.M.; Fan, J.P.; Li, F.	Simulation-based optimization of coupled material-energy flow at ironmaking-steelmaking interface using One-Ladle Technique	2021, 16(3), 348-358, 10.14743/apem2021.3.405	Metallurgy; Ironmaking process; Steelmaking process; Ironmaking-steelmaking interface; Coupled material-energy flow; Discrete event simulation; Optimization; One-ladle technique	Hu, Z.C.; Zheng, Z.; He, L.M.; Fan, J.P.; Li, F. (2021). Simulation-based optimization of coupled material-energy flow at ironmaking-steelmaking interface using One-Ladle Technique, <i>Advances in Production Engineering & Management</i> , Vol. 16, No. 3, 348-358, https://doi.org/10.14743/apem2021.3.405
404	Jurczyk-Bunkowska, M.	Tactical manufacturing capacity planning based on discrete event simulation and throughput accounting: A case study of medium sized production enterprise	2021, 16(3), 335-347, 10.14743/apem2021.3.404	Decision process; Capacity planning; Discrete event simulation (DES); Throughput accounting (TA); Plant simulation; Small and medium-sized enterprises (SME); Production scenarios; Tecnomatix Plant Simulation	Jurczyk-Bunkowska, M. (2021). Tactical manufacturing capacity planning based on discrete event simulation and throughput accounting: A case study of medium sized production enterprise, <i>Advances in Production Engineering & Management</i> , Vol. 16, No. 3, 335-347, https://doi.org/10.14743/apem2021.3.404
403	Kramar, D.; Cica, Dj.	Modeling and optimization of finish diamond turning of spherical surfaces based on response surface methodology and cuckoo search algorithm	2021, 16(3), 326-334, 10.14743/apem2021.3.403	Brass alloy; Diamond turning; Surface roughness; Spherical surface; Modeling; Optimization; Response surface methodology (RSM); Cuckoo search (CS)	Kramar, D.; Cica, Dj. (2021). Modeling and optimization of finish diamond turning of spherical surfaces based on response surface methodology and cuckoo search algorithm, <i>Advances in Production Engineering & Management</i> , Vol. 16, No. 3, 326-334, https://doi.org/10.14743/apem2021.3.403
402	Purba, H.H.; Nindiani, A.; Trimarjoko, A.; Jaqin, C.; Hasibuan, S.; Tampubolon, S.	Increasing Sigma levels in productivity improvement and industrial sustainability with Six Sigma methods in manufacturing industry: A systematic literature review	2021, 16(3), 307-325, 10.14743/apem2021.3.402	Manufacturing; Sustainability; Industrial sustainability; Six Sigma; Increase of Sigma level; Productivity improvement; Industrial competitiveness	Purba, H.H.; Nindiani, A.; Trimarjoko, A.; Jaqin, C.; Hasibuan, S.; Tampubolon, S. (2021). Increasing Sigma levels in productivity improvement and industrial sustainability with Six Sigma methods in manufacturing industry: A systematic literature review, <i>Advances in Production Engineering & Management</i> , Vol. 16, No. 3, 307-325, https://doi.org/10.14743/apem2021.3.402
401	Vukicevic, A.; Mladineo, M.; Banduka, N.; Macuzic, I.	A smart Warehouse 4.0 approach for the pallet management using machine vision and Internet of Things (IoT): A real industrial case study	2021, 16(3), 297-306, 10.14743/apem2021.3.401	Smart manufacturing; SME; Industry 4.0; Logistics 4.0; Warehousing 4.0; Pallet management; Machine vision; Internet of Things (IoT); QR code	Vukicevic, A.; Mladineo, M.; Banduka, N.; Macuzic, I. (2021). A smart Warehouse 4.0 approach for the pallet management using machine vision and Internet of Things (IoT): A real industrial case study, <i>Advances in Production Engineering & Management</i> , Vol. 16, No. 3, 297-306, https://doi.org/10.14743/apem2021.3.401

400	Zhang, Y.D.; Liao, L.; Yu, Q.; Ma, W.G.; Li, K.H.	Using the gradient boosting decision tree (GBDT) algorithm for a train delay prediction model considering the delay propagation feature	2021, 16(3), 285-296, 10.14743/apem2021.3.400	Train delay prediction; Actual train operation data; Delay type identification; Delay propagation feature extraction; Density-based spatial clustering of applications with noise (DBSCAN); k-nearest neighbor (KNN); Gradient boosting decision tree (GBDT); Random forest (RF); Support vector regression (SVR); Multilayer perceptron (MLP)	Zhang, Y.D.; Liao, L.; Yu, Q.; Ma, W.G.; Li, K.H. (2021). Using the gradient boosting decision tree (GBDT) algorithm for a train delay prediction model considering the delay propagation feature, <i>Advances in Production Engineering & Management</i> , Vol. 16, No. 3, 285-296, https://doi.org/10.14743/apem2021.3.400
399	Ren, J.F.; Ye, C.M.; Li, Y.	A new solution to distributed permutation flow shop scheduling problem based on NASH Q-Learning	2021, 16(3), 269-284, 10.14743/apem2021.3.399	Flow shop scheduling; Distributed scheduling; Permutation flow shop; Reinforcement learning; NASH Q-learning; Mean field (MF)	Ren, J.F.; Ye, C.M.; Li, Y. (2021). A new solution to distributed permutation flow shop scheduling problem based on NASH Q-Learning, <i>Advances in Production Engineering & Management</i> , Vol. 16, No. 3, 269-284, https://doi.org/10.14743/apem2021.3.399
398	Kovacic, M.; Leser, B.; Brezocnik, M.	Modelling and optimization of sulfur addition during 70MnVS4 steelmaking: An industrial case study	2021, 16(2), 253-261, 10.14743/apem2021.2.398	Metallurgy; Steelmaking; High-strength steel 70MnVS4; Microalloyed steel; Modelling; Optimization; Evolutionary algorithms; Genetic programming; Multiple linear regression	Kovacic, M.; Leser, B.; Brezocnik, M. (2021). Modelling and optimization of sulfur addition during 70MnVS4 steelmaking: An industrial case study, <i>Advances in Production Engineering & Management</i> , Vol. 16, No. 2, 253-261, https://doi.org/10.14743/apem2021.2.398
397	Wang, Y.J.; Wang, N.D.; Cheng, S.M.; Zhang, X.C.; Liu, H.Y.; Shi, J.L.; Ma, Q.Y.; Zhou, M.J.	Optimization of disassembly line balancing using an improved multi-objective Genetic Algorithm	2021, 16(2), 240-252, 10.14743/apem2021.2.397	Assembly; Disassembly; Line balancing; Multi-objective optimization; Remanufacturing; Product recovery; Product life cycle; NP-hard problem; Improved genetic algorithm	Wang, Y.J.; Wang, N.D.; Cheng, S.M.; Zhang, X.C.; Liu, H.Y.; Shi, J.L.; Ma, Q.Y.; Zhou, M.J. (2021). Optimization of disassembly line balancing using an improved multi-objective Genetic Algorithm, <i>Advances in Production Engineering & Management</i> , Vol. 16, No. 2, 240-252, https://doi.org/10.14743/apem2021.2.397
396	Zhang, Z.Y.; Liang, Y.; Hou, Y.P.; Wang, Q.	Designing a warehouse internal layout using a parabolic aisles based method	2021, 16(2), 223-239, 10.14743/apem2021.2.396	Layout design; Warehouse internal layout; Parabolic aisle layout; Layout efficiency; Simulation; Optimization; Interval numerical simulation method (INSM); Genetic algorithms (GA)	Zhang, Z.Y.; Liang, Y.; Hou, Y.P.; Wang, Q. (2021). Designing a warehouse internal layout using a parabolic aisles based method, <i>Advances in Production Engineering & Management</i> , Vol. 16, No. 2, 223-239, https://doi.org/10.14743/apem2021.2.396
395	Wang, L.; Chen, X.Y.; Zhang, H.	Joint distribution models in fast-moving consumer goods wholesale enterprise: Comparative analysis and a case study	2021, 16(2), 212-222, 10.14743/apem2021.2.395	Logistics; Joint distribution; Wholesale enterprise; Fast-moving consumer goods; Distribution models; Optimization	Wang, L.; Chen, X.Y.; Zhang, H. (2021). Joint distribution models in fast-moving consumer goods wholesale enterprise: Comparative analysis and a case study, <i>Advances in Production Engineering & Management</i> , Vol. 16, No. 2, 212-222, https://doi.org/10.14743/apem2021.2.395
394	Shakouri, E.; Haghighi Hassanalideh, H.; Fotuhi, S.	Bone drilling with internal gas cooling: Experimental and statistical investigation of the effect of cooling with CO2 on reduction of temperature rise due to drill bit wear	2021, 16(2), 199-211, 10.14743/apem2021.2.394	Bone; Drilling; Thermal necrosis; Tool wear; Internal gas cooling	Shakouri, E.; Haghighi Hassanalideh, H.; Fotuhi, S. (2021). Bone drilling with internal gas cooling: Experimental and statistical investigation of the effect of cooling with CO2 on reduction of temperature rise due to drill bit wear, <i>Advances in Production Engineering & Management</i> , Vol. 16, No. 2, 199-211, https://doi.org/10.14743/apem2021.2.394
393	Yang, W.M.; Li, C.D.; Chen, Y.H.; Yu, Y.Y.	Change impact analysis of complex product using an improved three-parameter interval grey relation model	2021, 16(2), 185-198, 10.14743/apem2021.2.393	Manufacturing; Engineering; Complex product; Change impact analysis; Three-parameter interval grey number; Grey relational model; BWM method (best-worst model); Gini weighting method	Yang, W.M.; Li, C.D.; Chen, Y.H.; Yu, Y.Y. (2021). Change impact analysis of complex product using an improved three-parameter interval grey relation model, <i>Advances in Production Engineering & Management</i> , Vol. 16, No. 2, 185-198, https://doi.org/10.14743/apem2021.2.393
392	Wang, Y.D.; Lu, X.C.; Shen, J.R.	Improved Genetic Algorithm (VNS-GA) using polar coordinate classification for workload balanced multiple Traveling Salesman Problem (mTSP)	2021, 16(2), 173-184, 10.14743/apem2021.2.392	Multiple traveling salesman problem (mTSP); Workload balance; Variable neighbourhood search algorithm (VNS); Genetic algorithm (GA); Polar coordinates; Classification	Wang, Y.D.; Lu, X.C.; Shen, J.R. (2021). Improved Genetic Algorithm (VNS-GA) using polar coordinate classification for workload balanced multiple Traveling Salesman Problem (mTSP), <i>Advances in Production Engineering & Management</i> , Vol. 16, No. 2, 173-184, https://doi.org/10.14743/apem2021.2.392
391	Fang, I.W.; Lin, W.-T.	A multi-objective optimal decision model for a green closed-loop supply chain under uncertainty: A real industrial case study	2021, 16(2), 161-172, 10.14743/apem2021.2.391	Green closed-loop supply chain; Sustainability; Modelling; Robust optimization; Mixed integer programming model; Supply chain management; Uncertainty; LP-metric method	Fang, I.W.; Lin, W.-T. (2021). A multi-objective optimal decision model for a green closed-loop supply chain under uncertainty: A real industrial case study, <i>Advances in Production Engineering & Management</i> , Vol. 16, No. 2, 161-172, https://doi.org/10.14743/apem2021.2.391
390	Agarwal, N.; Shrivastava, N.; Pradhan, M.K.	Hybrid ANFIS-Rao algorithm for surface roughness modelling and optimization in electrical discharge machining	2021, 16(2), 145-160, 10.14743/apem2021.2.390	Electrical-discharge machining (EDM); Titanium alloy; Surface roughness; Modelling; Optimization; Artificial neural networks (ANN); Adaptive neuro fuzzy inference system (ANFIS); Rao algorithm; Jaya algorithm	Agarwal, N.; Shrivastava, N.; Pradhan, M.K. (2021). Hybrid ANFIS-Rao algorithm for surface roughness modelling and optimization in electrical discharge machining, <i>Advances in Production Engineering & Management</i> , Vol. 16, No. 2, 145-160, https://doi.org/10.14743/apem2021.2.390
389	Patalas-Maliszewska, J.; Topczak, M.	A new management approach based on Additive Manufacturing technologies and Industry 4.0 requirements	2021, 16(1), 125-135, 10.14743/apem2021.1.389	Smart manufacturing; Industry 4.0; Additive Manufacturing (AM); 3D printing; Strategy; Management; Empirical research; Competitive advantage; Balanced scorecard	Patalas-Maliszewska, J.; Topczak, M. (2021). A new management approach based on Additive Manufacturing technologies and Industry 4.0 requirements, <i>Advances in Production Engineering & Management</i> , Vol. 16, No. 1, 125-135, https://doi.org/10.14743/apem2021.1.389
388	Sun, J.Z.; Zhang, Q.S.; Yu, Y.Y.	Optimization of a multi-objective location model of manufacturing base considering cooperative manufacturing capabilities and service benefits	2021, 16(1), 112-124, 10.14743/apem2021.1.388	Manufacturing base; Location model; Multi-objective model; Optimization; Decision-making; Customer demand preference; Collaborative manufacturing	Sun, J.Z.; Zhang, Q.S.; Yu, Y.Y. (2021). Optimization of a multi-objective location model of manufacturing base considering cooperative manufacturing capabilities and service benefits, <i>Advances in Production Engineering & Management</i> , Vol. 16, No. 1, 112-124, https://doi.org/10.14743/apem2021.1.388
387	Ciric, D.; Delic, M.; Lalic, B.; Gracanin, D.; Lolic, T.	Exploring the link between project management approach and project success dimensions: A structural model approach	2021, 16(1), 99-111, 10.14743/apem2021.1.387	Green production; Project management approach; Agile; Traditional; Project success; Structural-model approach	Ciric, D.; Delic, M.; Lalic, B.; Gracanin, D.; Lolic, T. (2021). Exploring the link between project management approach and project success dimensions: A structural model approach, <i>Advances in Production Engineering & Management</i> , Vol. 16, No. 1, 99-111, https://doi.org/10.14743/apem2021.1.387
386	Kopenhagen, F.; Held, T.	The implications of product modularisation on the development process, supplier integration and supply chain design in collaborative product development	2021, 16(1), 82-98, 10.14743/apem2021.1.386	Supply chain design; Robust value chains; Modularity; Product development; Complexity management; Awarding process; Supplier integration; Automotive industry	Kopenhagen, F.; Held, T. (2021). The implications of product modularisation on the development process, supplier integration and supply chain design in collaborative product development, <i>Advances in Production Engineering & Management</i> , Vol. 16, No. 1, 82-98, https://doi.org/10.14743/apem2021.1.386
385	Premrov, M.; Ber, B.; Kozem Silih, E.	Study of load-bearing timber-wall elements using experimental testing and mathematical modelling	2021, 16(1), 67-81, 10.14743/apem2021.1.385	Wall elements; Timber; Timber-glass building; Stiffness; Vibrations; Experiments; Modelling; Landers accelerometer	Premrov, M.; Ber, B.; Kozem Silih, E. (2021). Study of load-bearing timber-wall elements using experimental testing and mathematical modelling, <i>Advances in Production Engineering & Management</i> , Vol. 16, No. 1, 67-81, https://doi.org/10.14743/apem2021.1.385
384	Oztemel, E.; Ozel, S.	A conceptual model for measuring the competency level of Small and Medium-sized Enterprises (SMEs)	2021, 16(1), 47-66, 10.14743/apem2021.1.384	Small and medium-sized enterprises (SMEs); Competency assessment; Technological competency; Strategic competency; Financial competency; Intellectual competency; R&D and innovation competency; Smart manufacturing; Industry 4.0	Oztemel, E.; Ozel, S. (2021). A conceptual model for measuring the competency level of Small and Medium-sized Enterprises (SMEs), <i>Advances in Production Engineering & Management</i> , Vol. 16, No. 1, 47-66, https://doi.org/10.14743/apem2021.1.384

383	Shi, W.; Tang, D.B.; Zou, P.	Multi-objective automated guided vehicle scheduling based on MapReduce framework	2021, 16(1), 37-46, 10.14743/apem2021.1.383	Automated-guided vehicle(AGV); Scheduling; AGV scheduling; MapReduce; Path planning; A* search algorithm	Shi, W.; Tang, D.B.; Zou, P. (2021). Multi-objective automated guided vehicle scheduling based on MapReduce framework, <i>Advances in Production Engineering & Management</i> , Vol. 16, No. 1, 37-46, https://doi.org/10.14743/apem2021.1.383
382	Tian, W.; Zhang, H.P.	A dynamic job-shop scheduling model based on deep learning	2021, 16(1), 23-36, 10.14743/apem2021.1.3812	Long short-term memory (LSTM); Dynamic job-shop scheduling; Multi-objective genetic algorithm (MOGA); Adaptive moment estimation (ADAM)	Tian, W.; Zhang, H.P. (2021). A dynamic job-shop scheduling model based on deep learning, <i>Advances in Production Engineering & Management</i> , Vol. 16, No. 1, 23-36, https://doi.org/10.14743/apem2021.1.382
381	Duan, W.; Ma, H.; Xu, D.S.	Analysis of the impact of COVID-19 on the coupling of the material flow and capital flow in a closed-loop supply chain	2021, 16(1), 5-22, 10.14743/apem2021.1.381	COVID-19 epidemic; Supply chain; Closed-loop supply chain; Material flow; Capital flow; Material-capital flows coupling; System dynamics; Simulation; Vensim simulation software	Duan, W.; Ma, H.; Xu, D.S. (2021). Analysis of the impact of COVID-19 on the coupling of the material flow and capital flow in a closed-loop supply chain, <i>Advances in Production Engineering & Management</i> , Vol. 16, No. 1, 5-22, https://doi.org/10.14743/apem2021.1.381