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#	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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management*, 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* Vol. 18, No. 3, 371-380, https://doi.org/10.14743/apem2023.3.479
478	Milenkovic, M.; Ciric Lalic, D.; Vujicic, 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.; Vujicic, M.; Pesko, I.; Savkovic, M.; Gracanin, D. (2023). Project portfolio management in telecommunication company: A stage-gate approach for effective portfolio governance, *Advances in Production Engineering & Management*, 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management*, 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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/ape2023.2.467**	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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management*, 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management*, 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, *Advances in Production Engineering & Management*, 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* Vol. 18, No. 1, 5-18, https://doi.org/10.14743/apem2023.1.453

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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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management*, 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 NGSA-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 NGSA-II algorithm for particle reinforced aluminum based metal matrix composites, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management*, 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, *Advances in Production Engineering & Management*, Vol. 17, No. 2, 183-192, 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* Vol. 17, No. 1, 108-120, https://doi.org/10.14743/apem2022.1.424
423	Rudolf, R.; Jelen, Z.; Zadravec, 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.; Zadravec, 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, *Advances in Production Engineering & Management,* 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), *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in*

				transfer coefficient; Simulation; Modelling; Steel AISI 304	*Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* Vol. 17, No. 1, 5-15, https://doi.org/10.14743/apem2022.1.417

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#	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, *Advances in Production Engineering & Management,* Vol. 16, No. 4, 500-514, https://doi.org/10.14743/apem2021.4.416
415	Nowakowska, M.; Pajecki, 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.; Pajecki, M. (2021). Latent class analysis for identification of occupational accident casualty profiles in the selected Polish manufacturing sector, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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 (MEREC)	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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management*, 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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), *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* Vol. 16, No. 1, 99-111, https://doi.org/10.14743/apem2021.1.387
386	Koppenhagen, 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	Koppenhagen, F.; Held, T. (2021). The implications of product modularisation on the development process, supplier integration and supply chain design in collaborative product development, *Advances in Production Engineering & Management,* 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 accelerogram	Premrov, M.; Ber, B.; Kozem Silih, E. (2021). Study of load-bearing timber-wall elements using experimental testing and mathematical modelling, *Advances in Production Engineering & Management,* 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), *Advances in Production Engineering & Management*, 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, *Advances in Production Engineering & Management*, 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, *Advances in Production Engineering & Management,* 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, *Advances in Production Engineering & Management,* Vol. 16, No. 1, 5-22, https://doi.org/10.14743/apem2021.1.381

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#	Authors	Paper title	2020, Vol(No), Pages, DOI	Key words	Citation data
380	Ojstersek, R.; Tang, M.; Buchmeister, B.	Due date optimization in multi-objective scheduling of flexible job shop production	2020, 15(4), 481-492, 10.14743/apem2020.4.380	Flexible job shop scheduling prob-lem (FJSSP); Due date; Makespan; Capacities utilization; Multi-objective optimization; Evolutionary computation; Multi-objective heuristic Kalman algorithm; Simio simulation and scheduling software	Ojstersek, R.; Tang, M.; Buchmeister, B. (2020). Due date optimization in multi-objective scheduling of flexible job shop production, *Advances in Production Engineering & Management*, Vol. 15, No. 4, 481-492, https://doi.org/10.14743/apem2020.4.380
379	Zywicki, K.; Rewers, P.	A simulation-based approach to study the influence of different production flows on manufacturing of customized products	2020, 15(4), 467-480, 10.14743/apem2020.4.379	Smart manufacturing; Production flow; Customized products; Variant products; Discrete-event simulation (DES); FlexSim simulation modeling and analysis software	Zywicki, K.; Rewers, P. (2020). A simulation-based approach to study the influence of different production flows on manufacturing of customized products, *Advances in Production Engineering & Management,* Vol. 15, No. 4, 467-480, https://doi.org/10.14743/apem2020.4.379
378	Hu, Y.S.; Zeng, L.H.; Huang, Z.L.; Cheng, Q.	Optimal channel decision of retailers in the dual-channel supply chain considering consumer preference for delivery lead time	2020, 15(4), 453-466, 10.14743/apem2020.4.378	Supply chain; Dual-channel; Consumer preference; Delivery lead time preference; Channel selection; Channel coordination	Hu, Y.S.; Zeng, L.H.; Huang, Z.L.; Cheng, Q. (2020). Optimal channel decision of retailers in the dual-channel supply chain considering consumer preference for delivery lead time, *Advances in Production Engineering & Management,* Vol. 15, No. 4, 453-466, https://doi.org/10.14743/apem2020.4.378
377	Petruska, O.; Zajac, J.; Duplakova, D.; Simkulet, V.; Duplak, J.; Botko, F.	Effect of glass and carbon fibres on the compressive and flexural strength of the polymer concrete composite	2020, 15(4), 441-452, 10.14743/apem2020.4.377	Concrete composite; Polymer concrete; Compressive strength; Flexural strength; Glass fibres; Carbon fibres	Petruska, O.; Zajac, J.; Duplakova, D.; Simkulet, V.; Duplak, J.; Botko, F. (2020). Effect of glass and carbon fibres on the compressive and flexural strength of the polymer concrete composite, *Advances in Production Engineering & Management,* Vol. 15, No. 4, 441-452, https://doi.org/10.14743/apem2020.4.377
376	Knapcikova, L.; Behunova, A.; Behun, M.	Using a discrete event simulation as an effective method applied in the production of recycled material	2020, 15(4), 431-440, 10.14743/apem2020.4.376	Green manufacturing; Recycling; Waste tyres; Discrete event simulation; Witness simulation software; Economic impact; Efficiency; Ultrasonic separation	Knapcikova, L.; Behunova, A.; Behun, M. (2020). Using a discrete event simulation as an effective method applied in the production of recycled material, *Advances in Production Engineering & Management,* Vol. 15, No. 4, 431-440, https://doi.org/10.14743/apem2020.4.376
375	Awaga, A.L.; Xu, W.; Liu, L.; Zhang, Y.	Evolutionary game of green manufacturing mode of enterprises under the influence of government reward and punishment	2020, 15(4), 416-430, 10.14743/apem2020.4.375	Evolutionary game; Green manufacturing; Smart manufacturing; Reward and punishment; Multi-objective decision making (MODM); Evolutionary stabilization strategy	Awaga, A.L.; Xu, W.; Liu, L.; Zhang, Y. (2020). Evolutionary game of green manufacturing mode of enterprises under the influence of government reward and punishment, *Advances in Production Engineering & Management*, Vol. 15, No. 4, 416-430, https://doi.org/10.14743/apem2020.4.375
374	Khawaja, A.H.; Jahanzaib, M.; Cheema, T.A.	High-speed machining parametric optimization of 15CDV6 HSLA steel under minimum quantity and flood lubrication	2020, 15(4), 403-415, 10.14743/apem2020.4.374	High-speed machining; Milling; HSLA steel; Chromium-molybdenum-vanadium steel (15CDV6); Minimum quantity lubrication; Optimization; Sustainability	Khawaja, A.H.; Jahanzaib, M.; Cheema, T.A. (2020). High-speed machining parametric optimization of 15CDV6 HSLA steel under minimum quantity and flood lubrication, *Advances in Production Engineering & Management,* Vol. 15, No. 4, 403-415, https://doi.org/10.14743/apem2020.4.374
373	Polanec, B.; Kramberger, J.; Glodez, S.	A review of production technologies and materials for manufacturing of cardiovascular stents	2020, 15(4), 390-402, 10.14743/apem2020.4.373	Stent; Bare-metal stent; Drug-eluting stent; Bio-resorbable stent; Stent coatings; Drug delivery; Stent manufacturing; Stent material; Laser cutting; Additive manufacturing (3D printing)	Polanec, B.; Kramberger, J.; Glodez, S. (2020). A review of production technologies and materials for manufacturing of cardiovascular stents, *Advances in Production Engineering & Management*, Vol. 15, No. 4, 390-402, https://doi.org/10.14743/apem2020.4.373
372	Amjad, M.K.; Butt, S.I.; Anjum, N.; Chaudhry, I.A.; Faping, Z.; Khan, M.	A layered genetic algorithm with iterative diversification for optimization of flexible job shop scheduling problems	2020, 15(4), 377-389, 10.14743/apem2020.4.372	Scheduling; Flexible job shop scheduling problem (FJSSP); Complexity; Diversity; Combinatorial optimization; Genetic algorithm	Amjad, M.K.; Butt, S.I.; Anjum, N.; Chaudhry, I.A.; Faping, Z.; Khan, M. (2020). A layered genetic algorithm with iterative diversification for optimization of flexible job shop scheduling problems, *Advances in Production Engineering & Management,* Vol. 15, No. 4, 377-389, https://doi.org/10.14743/apem2020.4.372
371	Rudolf, R.; Majeric, P.; Golub, D.; Tiyyagura, H.R.	Testing of novel nano gold ink for inkjet printing	2020, 15(3), 358-368, 10.14743/apem2020.3.371	Inkjet printing; Nano gold ink; Gold nanoparticles; Characterisation; Paper-based sensor	Rudolf, R.; Majeric, P.; Golub, D.; Tiyyagura, H.R. (2020). Testing of novel nano gold ink for inkjet printing, *Advances in Production Engineering & Management,* Vol. 15, No. 3, 358-368, https://doi.org/10.14743/apem2020.3.371
370	Hu, H.; Zhang, Z.; Wu, Q.; Han, S.	Manufacturer's customer satisfaction incentive plan for duopoly retailers with Cournot or collusion games	2020, 15(3), 345-357, 10.14743/apem2020.3.370	Supply chain management; Manufacturer's incentive plan; Customer satisfaction; Duopoly retailers; Game; Cournot game; Collusion	Hu, H.; Zhang, Z.; Wu, Q.; Han, S. (2020). Manufacturer's customer satisfaction incentive plan for duopoly retailers with Cournot or collusion games, *Advances in Production Engineering & Management,* Vol. 15, No. 3, 345-357, https://doi.org/10.14743/apem2020.3.370
369	Turk, M.; Pipan, M.; Simic, M.; Herakovic, N.	Simulation-based time evaluation of basic manual assembly tasks	2020, 15(3), 331-344, 10.14743/apem2020.3.369	Assembly; Manual task; Work-job design; Time analysis; Jack simulation; Avatar	Turk, M.; Pipan, M.; Simic, M.; Herakovic, N. (2020). Simulation-based time evaluation of basic manual assembly tasks, *Advances in Production Engineering & Management,* Vol. 15, No. 3, 331-344, https://doi.org/10.14743/apem2020.3.369
368	Jasiewicz, M.; Miadlicki, K.	An integrated CNC system for chatter suppression in turning	2020, 15(3), 318-330, 10.14743/apem2020.3.368	Computer numerical control (CNC); Machining chatter; Vibrations; Stability analysis; Machine-tool spindle; Cutting parameters; Turning	Jasiewicz, M.; Miadlicki, K. (2020). An integrated CNC system for chatter suppression in turning, *Advances in Production Engineering & Management,* Vol. 15, No. 3, 318-330, https://doi.org/10.14743/apem2020.3.368
367	Al-Refaie, A.; Lepkova, N.; Abbasi, G.; Bani Domi, G.	Optimization of process performance by multiple pentagon fuzzy responses: Case studies of wire-electrical discharge machining and sputtering process	2020, 15(3), 307-317, 10.14743/apem2020.3.367	Modeling and optimization; Fuzzy goal programming; Pentagon regression modelling; Pentagon fuzzy numbers; Wire electro-discharge machining (WEDM); Surface roughness (SR); Material removal rate (MRR); Sputtering process; Gallium-doped ZnO (GZO)	Al-Refaie, A.; Lepkova, N.; Abbasi, G.; Bani Domi, G. (2020). Optimization of process performance by multiple pentagon fuzzy responses: Case studies of wire-electrical discharge machining and sputtering process, *Advances in Production Engineering & Management*, Vol. 15, No. 3, 307-317, https://doi.org/10.14743/apem2020.3.367
366	Hu, Q.; Yang, Y.; Cao, W.	Computational analysis of cavitation at the tongue of the volute of a centrifugal pump at overload conditions	2020, 15(3), 295-306, 10.14743/apem2020.3.366	Centrifugal pump; Numerical simulation; Computational fluid dynamics (CFD); Tongue; Cavitation; Blade loading; Pressure fluctuation	Hu, Q.; Yang, Y.; Cao, W. (2020). Computational analysis of cavitation at the tongue of the volute of a centrifugal pump at overload conditions, *Advances in Production Engineering & Management,* Vol. 15, No. 3, 295-306, https://doi.org/10.14743/apem2020.3.366
365	Zhang, Z.J.; Wang, P.; Wan, M.Y.; Guo, J.H.; Luo, C.L.	Interactive impacts of overconfidence and fairness concern on supply chain performance	2020, 15(3), 277-294, 10.14743/apem2020.3.365	Supply chain; Supply chain management; Modelling; Performance; Overconfidence; Fairness concern; Behavioural operation; Stackelberg game	Zhang, Z.J.; Wang, P.; Wan, M.Y.; Guo, J.H.; Luo, C.L. (2020). Interactive impacts of overconfidence and fairness concern on supply chain performance, *Advances in Production Engineering & Management,* Vol. 15, No. 3, 277-294, https://doi.org/10.14743/apem2020.3.365
364	Malega, P.; Rudy, V.; Kanasz, R.; Gazda, V.	Decentralized optimization of the flexible production lines	2020, 15(3), 267-276, 10.14743/apem2020.3.364	Production line; Job shop problem (JSP); Decentralised optimization; Production scheduling; Shortest processing time rule; Self-organization; Genetic algorithm; Decision table	Malega, P.; Rudy, V.; Kanasz, R.; Gazda, V. (2020). Decentralized optimization of the flexible production lines, *Advances in Production Engineering & Management,* Vol. 15, No. 3, 267-276, https://doi.org/10.14743/apem2020.3.364
363	Barros, L.; Linfati, R.; Escobar, J.W.	An exact approach for the consistent vehicle routing problem (ConVRP)	2020, 15(3), 255-266, 10.14743/apem2020.3.363	Vehicle routing problem (VRP); Consistent vehicle routing (ConVRP); Mathematical model; Mixed Integer linear programming model; Optimization; Exact algorithms; Modelling; CPLEX; Gurobi	Barros, L.; Linfati, R.; Escobar, J.W. (2020). An exact approach for the consistent vehicle routing problem (ConVRP), *Advances in Production Engineering & Management,* Vol. 15, No. 3, 255-266, https://doi.org/10.14743/apem2020.3.363

362	Babaeinesami, A.; Tohidi, H.; Seyedaliakbar, S.M.	A closed loop Stackelberg game in multi-product supply chain considering information security: A case study	2020, 15(2), 233-246, **10.14743/apem2020.2.361**	Supply chain optimization; Multi-product supply chain; Closed-loop supply chain; Game theory; Stackelberg game; Information security; Renovation of products; Collection of products	Babaeinesami, A.; Tohidi, H.; Seyedaliakbar, S.M. (2020). A closed loop Stackelberg game in multi-product supply chain considering information security: A case study, *Advances in Production Engineering & Management,* Vol. 15, No. 2, 233-246, https://doi.org/10.14743/apem2020.2.361
361	Dakovic, M.; Lalic, B.; Delic, M.; Tasic, N.; Ciric, D.	Systematic mitigation of model sensitivity in the initiation phase of energy projects	2020, 15(2), 217-232, **10.14743/apem2020.2.360**	Project risk management; Risk model; Risk analysis; Risk mitigation; Sensitivity model; Stakeholders; Energy projects	Dakovic, M.; Lalic, B.; Delic, M.; Tasic, N.; Ciric, D. (2020). Systematic mitigation of model sensitivity in the initiation phase of energy projects, *Advances in Production Engineering & Management,* Vol. 15, No. 2, 217-232, https://doi.org/10.14743/apem2020.2.360
360	Khurshid, B.; Maqsood, S.; Omair, M.; Nawaz, R.; Akhtar, R.	Hybrid evolution strategy approach for robust permutation flowshop scheduling	2020, 15(2), 204-216, **10.14743/apem2020.2.359**	Permutation flowshop; Scheduling; Carlier problem; Reeves problem; Evolutionary computation; Hybrid evolution stratgey; Improved evolution strategy; Tabu search	Khurshid, B.; Maqsood, S.; Omair, M.; Nawaz, R.; Akhtar, R. (2020). Hybrid evolution strategy approach for robust permutation flowshop scheduling, *Advances in Production Engineering & Management,* Vol. 15, No. 2, 204-216, https://doi.org/10.14743/apem2020.2.359
359	Hu, H.; Wu, Q.; Han, S.; Zhang, Z.	Coordination of dual-channel supply chain with perfect product considering sales effort	2020, 15(2), 192-203, **10.14743/apem2020.2.358**	e-commerce; Supply chain; Dual-channel supply chain (DCSC); Defective product; Manufacturer sales effort; Coordination; Game theory	Hu, H.; Wu, Q.; Han, S.; Zhang, Z. (2020). Coordination of dual-channel supply chain with perfect product considering sales effort, *Advances in Production Engineering & Management,* Vol. 15, No. 2, 192-203, https://doi.org/10.14743/apem2020.2.358
358	Chen, D.M.; Liu, Y.H.; He, S.F.; Xu, S.; Dai, F.Q.; Lu, B.	Fuel gas operation management practices for reheating furnace in iron and steel industry	2020, 15(2), 179-191, **10.14743/apem2020.2.357**	Iron industry; Steel Industry; Fuel gas operation (FGO) management; Reheating furnace; FGO evaluation model; Fuel gas per ton steel (FGTS) time-series; Working groups; Working shifts	Chen, D.M.; Liu, Y.H.; He, S.F.; Xu, S.; Dai, F.Q.; Lu, B. (2020). Fuel gas operation management practices for reheating furnace in iron and steel industry, *Advances in Production Engineering & Management,* Vol. 15, No. 2, 179-191, https://doi.org/10.14743/apem2020.2.357
357	Spaic, O.; Krivokapic, Z.; Kramar, D.	Development of family of artificial neural networks for the prediction of cutting tool condition	2020, 15(2), 164-178, **10.14743/apem2020.2.356**	Drilling; Cutting tool; Twist drill bits; Axial force; Tool wear; Prediction; Artificial neural networks; Back propagation	Spaic, O.; Krivokapic, Z.; Kramar, D. (2020). Development of family of artificial neural networks for the prediction of cutting tool condition, *Advances in Production Engineering & Management,* Vol. 15, No. 2, 164-178, https://doi.org/10.14743/apem2020.2.356
356	Zic, J.; Zic, S.	Multi-criteria decision making in supply chain management based on inventory levels, environmental impact and costs	2020, 15(2), 151-163, **10.14743/apem2020.2.355**	Green supply chain; Multi-criteria decision making; Environmental impact; Costs; Inventory levels	Zic, J.; Zic, S. (2020). Multi-criteria decision making in supply chain management based on inventory levels, environmental impact and costs, *Advances in Production Engineering & Management,* Vol. 15, No. 2, 151-163, https://doi.org/10.14743/apem2020.2.355
355	Savkovic, B.; Kovac, P.; Rodic, D.; Strbac, B.; Klancnik, S.	Comparison of artificial neural network, fuzzy logic and genetic algorithm for cutting temperature and surface roughness prediction during the face milling process	2020, 15(2), 137-150, **10.14743/apem2020.2.354**	Artificial intelligence; Artificial neural networks (ANN); Fuzzy logic (FL); Genetic algorithms (GA); Face milling; Modeling; Surface roughness; Cutting temperature	Savkovic, B.; Kovac, P.; Rodic, D.; Strbac, B.; Klancnik, S. (2020). Comparison of artificial neural network, fuzzy logic and genetic algorithm for cutting temperature and surface roughness prediction during the face milling process, *Advances in Production Engineering & Management,* Vol. 15, No. 2, 137-150, https://doi.org/10.14743/apem2020.2.354
354	Li, G.Z.; Xu, Z.G.; Yang, S.L.; Wang, H.Y.; Bai, X.L.; Ren, Z.H.	Bottleneck identification and alleviation in a blocked serial production line with discrete event simulation: A case study	2020, 15(2), 125-136, **10.14743/apem2020.2.353**	Serial production line; Bottleneck identification; Bottleneck alleviation; Discrete event simulation; Plant Simulation; Case study	Li, G.Z.; Xu, Z.G.; Yang, S.L.; Wang, H.Y.; Bai, X.L.; Ren, Z.H. (2020). Bottleneck identification and alleviation in a blocked serial production line with discrete event simulation: A case study, *Advances in Production Engineering & Management,* Vol. 15, No. 2, 125-136, https://doi.org/10.14743/apem2020.2.353
353	Acko, B.; Weber, H.; Hutzschenreuter, D.; Smith, I.	Communication and validation of metrological smart data in IoT-networks	2020, 15(1), 107-117, **10.14743/apem2020.1.353**	Metrology; Measurement metadata; Information and communication technology (ICT); Smart Data; Data communication; IoT-communication; IoT-networking; Digital calibration certificate	Acko, B.; Weber, H.; Hutzschenreuter, D.; Smith, I. (2020). Communication and validation of metrological smart data in IoT-networks, *Advances in Production Engineering & Management,* Vol. 15, No. 1, 107-117, https://doi.org/10.14743/apem2020.1.353
352	Vulanovic, S.; Delic, M.; Kamberovic, B.; Beker, I.; Lalic, B.	Integrated management systems based on risk assessment: Methodology development and case studies	2020, 15(1), 93-106, **10.14743/apem2020.1.352**	Integrated management system; Risk management; Process approach; Failure mode effect analysis (FMEA)	Vulanovic, S.; Delic, M.; Kamberovic, B.; Beker, I.; Lalic, B. (2020). Integrated management systems based on risk assessment: Methodology development and case studies, *Advances in Production Engineering & Management,* Vol. 15, No. 1, 93-106, https://doi.org/10.14743/apem2020.1.352
351	Leksic, I.; Stefanic, N.; Veza, I.	The impact of using different lean manufacturing tools on waste reduction	2020, 15(1), 81-92, **10.14743/apem2020.1.351**	Green production; Lean manufacturing; Lean tools; Waste reduction; Waste management; Waste reduction techniques	Leksic, I.; Stefanic, N.; Veza, I. (2020). The impact of using different lean manufacturing tools on waste reduction, *Advances in Production Engineering & Management,* Vol. 15, No. 1, 81-92, https://doi.org/10.14743/apem2020.1.351
350	Yang, S.L.; Xu, Z.G.; Li, G.Z.; Wang, J.Y.	Assembly transport optimization for a reconfigurable flow shop based on a discrete event simulation	2020, 15(1), 69-80, **10.14743/apem2020.1.350**	Reconfigurable manufacturing systems (RMS); Discrete event simulation; Assembly transport strategy; Optimization; Plant Simulation; Reconfigurable flow shop; Production configuration; Production performance; Simulation	Yang, S.L.; Xu, Z.G.; Li, G.Z.; Wang, J.Y. (2020). Assembly transport optimization for a reconfigurable flow shop based on a discrete event simulation, *Advances in Production Engineering & Management,* Vol. 15, No. 1, 69-80, https://doi.org/10.14743/apem2020.1.350
349	Sari, T.; Gules, H.K.; Yigitol, B.	Awareness and readiness of Industry 4.0: The case of Turkish manufacturing industry	2020, 15(1), 57-68, **10.14743/apem2020.1.349**	Industry 4.0; Additive manufacturing; Autonomous robots; Cloud technologies; Cyber security; Internet of things (IoT); Big data; Augmented reality	Sari, T.; Gules, H.K.; Yigitol, B. (2020). Awareness and readiness of Industry 4.0: The case of Turkish manufacturing industry, *Advances in Production Engineering & Management,* Vol. 15, No. 1, 57-68, https://doi.org/10.14743/apem2020.1.349
348	Kosec, P.; Skec, S.; Miler, D.	A comparison of the tolerance analysis methods in the open-loop assembly	2020, 15(1), 44-56, **10.14743/apem2020.1.348**	Assembly; Open-loop assembly; Tolerance analysis; Computer aided tolerancing; Tolerance chart analysis; Unified Jacobian-torsor model; Monte Carlo method; Vector-loop analysis	Kosec, P.; Skec, S.; Miler, D. (2020). A comparison of the tolerance analysis methods in the open-loop assembly, *Advances in Production Engineering & Management,* Vol. 15, No. 1, 44-56, https://doi.org/10.14743/apem2020.1.348
347	Wang, D.; Tan, K.; Dong, Y.; Yuan, G.; Du, X.	Estimating the position and orientation of a mobile robot using neural network framework based on combined square-root cubature Kalman filter and simultaneous localization and mapping	2020, 15(3), 31-43, **10.14743/apem2020.1.347**	Robot; Mobile robot; Square-root cubature Kalman filter; Simultaneous localization and mapping; Sensors; Artificial neural networks; Iteration update; Filter estimate	Wang, D.; Tan, K.; Dong, Y.; Yuan, G.; Du, X. (2020). Estimating the position and orientation of a mobile robot using neural network framework based on combined square-root cubature Kalman filter and simultaneous localization and mapping, *Advances in Production Engineering & Management,* Vol. 15, No. 1, 31-43, https://doi.org/10.14743/apem2020.1.347
346	Straka, M.; Khouri, S.; Lenort, R.; Besta, P.	Improvement of logistics in manufacturing system by the use of simulation modelling: A real industrial case study	2020, 15(2), 18-30, **10.14743/apem2020.1.346**	Manufacturing; Logistics; Simulation; Modelling; Optimization; EXTENDSIM	Straka, M.; Khouri, S.; Lenort, R.; Besta, P. (2020). Improvement of logistics in manufacturing system by the use of simulation modelling: A real industrial case study, *Advances in Production Engineering & Management,* Vol. 15, No. 1, 18-30, https://doi.org/10.14743/apem2020.1.346
345	Zuperl, U.; Cus, F.; Zawada-Tomkiewicz, A.; Stepien, K.	Neuro-mechanistic model for cutting force prediction in helical end milling of metal materials layered in multiple directions	2020, 15(1), 5-17, **10.14743/apem2020.1.345**	Helical end milling; Multidirectional layered metal material; Cutting forces; Specific cutting forces; Neuro-mechanistic model; Modelling; Prediction; Artificial neural networks	Zuperl, U.; Cus, F.; Zawada-Tomkiewicz, A.; Stepien, K. (2020). Neuro-mechanistic model for cutting force prediction in helical end milling of metal materials layered in multiple directions, *Advances in Production Engineering & Management,* Vol. 15, No. 1, 5-17, https://doi.org/10.14743/apem2020.1.345

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#	Authors	Paper title	2019, Vol(No), Pages, DOI	Key words	Citation data
344	Burek, J.; Plodzien, M.; Zylka, L.; Sulkowicz, P.	High-performance end milling of aluminum alloy: Influence of different serrated cutting edge tool shapes on the cutting force	2019, 14(4), 494-506, 10.14743/apem2019.4.344	High performance milling; Aluminum alloy (AlZn5.5MgCu); Cutting force; Modelling; End mill cutter; Serrated cutting edge	Burek, J.; Plodzien, M.; Zylka, L.; Sulkowicz, P. (2019). High-performance end milling of aluminum alloy: Influence of different serrated cutting edge tool shapes on the cutting force, *Advances in Production Engineering & Management,* Vol. 14, No. 4, 494-506, https://doi.org/10.14743/apem2019.4.344
343	Medic, N.; Anisic, Z.; Lalic, B.; Marjanovic, U.; Brezocnik, M.	Hybrid fuzzy multi-attribute decision making model for evaluation of advanced digital technologies in manufacturing: Industry 4.0 perspective	2019, 14(4), 483-493, 10.14743/apem2019.4.343	Industry 4.0; Manufacturing; Digitalization; Advanced technologies; Multi-attribute decision making (MADM); Fuzzy analytic hierarchy process (FAHP); PROMETHEE method	Medic, N.; Anisic, Z.; Lalic, B.; Marjanovic, U.; Brezocnik, M. (2019). Hybrid fuzzy multi-attribute decision making model for evaluation of advanced digital technologies in manufacturing: Industry 4.0 perspective, *Advances in Production Engineering & Management,* Vol. 14, No. 4, 483-493, https://doi.org/10.14743/apem2019.4.343
342	Hu, H.; Wu, Q.; Zhang, Z.; Han, S.	Effect of the manufacturer quality inspection policy on the supply chain decision-making and profits	2019, 14(4), 472-482, 10.14743/apem2019.4.342	Supply chain; Decision-making; Quality inspection policy; Quality inspection avoidance; Incentive mechanism; Product return; Profit	Hu, H.; Wu, Q.; Zhang, Z.; Han, S. (2019). Effect of the manufacturer quality inspection policy on the supply chain decision-making and profits, *Advances in Production Engineering & Management,* Vol. 14, No. 4, 472-482, https://doi.org/10.14743/apem2019.4.342
341	Pang, J.H.; Zhao, H.; Qin, F.F.; Xue, X.B.; Yuan, K.Y.	A new approach for product quality prediction of complex equipment by grey system theory: A case study of cutting tools for CNC machine tool	2019, 14(4), 461-471, 10.14743/apem2019.4.341	Quality control; Computer numerical control (CNC); Machine tool; Quality prediction; Grey system theory	Pang, J.H.; Zhao, H.; Qin, F.F.; Xue, X.B.; Yuan, K.Y. (2019). A new approach for product quality prediction of complex equipment by grey system theory: A case study of cutting tools for CNC machine tool, *Advances in Production Engineering & Management,* Vol. 14, No. 4, 461-471, https://doi.org/10.14743/apem2019.4.341
340	Varga, G.; Torok, T.; Felho, C.; Orosz-Szirmai, G.; Rez, I.	Surface features of chromium alloyed carbon steel specimens after salt-spray tests in NaCl solution	2019, 14(4), 449-460, 10.14743/apem2019.4.340	Surface features; Surface topography; Roundness error; Cylindricity deviation; Corrosion; Surface roughness; Carbon steel; Chromium alloyed steel; Salt-spray test; NaCl solution	Varga, G.; Torok, T.; Felho, C.; Orosz-Szirmai, G.; Rez, I. (2019). Surface features of chromium alloyed carbon steel specimens after salt-spray tests in NaCl solution, *Advances in Production Engineering & Management,* Vol. 14, No. 4, 449-460, https://doi.org/10.14743/apem2019.4.340
339	Ojstersek, R.; Lalic, D.; Buchmeister, B.	A new method for mathematical and simulation modelling interactivity: A case study in flexible job shop scheduling	2019, 14(4), 435-448, 10.14743/apem2019.4.339	Flexible job shop scheduling; Mathematical modelling; Simulation modelling; Interactivity; Evolutionary computation; Multi-objective heuristic Kalman algorithm (MOHKA); Multi-objective particle swarm optimization (MOPSO); Bare-bones multi-objective particle swarm optimization algorithm (BBMOPSO)	Ojstersek, R.; Lalic, D.; Buchmeister, B. (2019). A new method for mathematical and simulation modelling interactivity: A case study in flexible job shop scheduling, *Advances in Production Engineering & Management,* Vol. 14, No. 4, 435-448, https://doi.org/10.14743/apem2019.4.339
338	Aleksic, A.; Runic Ristic, M.; Komatina, N.; Tadic, D	Advanced risk assessment in reverse supply chain processes: A case study in Republic of Serbia	2019, 14(4), 421-434, 10.14743/apem2019.4.338	Reverse supply chain; Risk; Multi-criteria decision analysis; Interval type-2 trapezoidal fuzzy numbers; Fuzzy FMEA framework; Fuzzy TOPSIS	Aleksic, A.; Runic Ristic, M.; Komatina, N.; Tadic, D. (2019). Advanced risk assessment in reverse supply chain processes: A case study in Republic of Serbia, *Advances in Production Engineering & Management*, Vol. 14, No. 4, 421-434, https://doi.org/10.14743/apem2019.4.338
337	Yin, C.P.; Wu, Z.P.; Dong, Y.W.; You, Y.C.; Liao, T.	Femtosecond laser helical drilling of nickel-base single-crystal super-alloy: Effect of machining parameters on geometrical characteristics of micro-holes	2019, 14(4), 407-420, 10.14743/apem2019.4.337	Femtosecond laser; Micro-hole machining; Helical drilling; Nickel-base single-crystal super-alloy (DD6); Orthogonal experiment; Artificial neural networks (ANN)	Yin, C.P.; Wu, Z.P.; Dong, Y.W.; You, Y.C.; Liao, T. (2019). Femtosecond laser helical drilling of nickel-base single-crystal super-alloy: Effect of machining parameters on geometrical characteristics of micro-holes, *Advances in Production Engineering & Management,* Vol. 14, No. 4, 407-420, https://doi.org/10.14743/apem2019.4.337
336	Santosi, Z.; Budak, I.; Sokac, M.; Hadzistevic, M.; Vukelic, D.	Influence of high dynamic range images on the accuracy of the photogrammetric 3D digitization: A case study	2019, 14(3), 391-399, 10.14743/apem2019.3.336	3D digitization; Photogrammetry; High dynamic range (HDR) image; Structure from motion (SfM)	Santosi, Z.; Budak, I.; Sokac, M.; Hadzistevic, M.; Vukelic, D. (2019). Influence of high dynamic range images on the accuracy of the photogrammetric 3D digitization: A case study, *Advances in Production Engineering & Management,* Vol. 14, No. 3, 391-399, https://doi.org/10.14743/apem2019.3.336
335	Lee, Y.; Lee, J.P.; Kim, S.	Optimal timing of price change with strategic customers under demand uncertainty: A real option approach	2019, 14(3), 379-390, 10.14743/apem2019.3.335	Strategic customers; Price change; Posted pricing; Markdown; Demand uncertainty; Real option	Lee, Y.; Lee, J.P.; Kim, S. (2019). Optimal timing of price change with strategic customers under demand uncertainty: A real option approach, *Advances in Production Engineering & Management,* Vol. 14, No. 3, 379-390, https://doi.org/10.14743/apem2019.3.335
334	Yang, M.S.; Ba, L.; Zheng, H.Y.; Liu, Y.; Wang, X.F.; He, J.Z.; Li, Y.	An integrated system for scheduling of processing and assembly operations with fuzzy operation time and fuzzy delivery time	2019, 14(3), 367-378, 10.14743/apem2019.3.334	Integrated scheduling; Uncertainty; Fuzzy operation time; Fuzzy delivery time; Genetic algorithm (GA)	Yang, M.S.; Ba, L.; Zheng, H.Y.; Liu, Y.; Wang, X.F.; He, J.Z.; Li, Y. (2019). An integrated system for scheduling of processing and assembly operations with fuzzy operation time and fuzzy delivery time, *Advances in Production Engineering & Management,* Vol. 14, No. 3, 367-378, https://doi.org/10.14743/apem2019.3.334
333	Sadeghpour, H.; Tavakoli, A.; Kazemi, M.; Pooya, A.	A novel approximate dynamic programming approach for constrained equipment replacement problems: A case study	2019, 14(3), 355-366, 10.14743/apem2019.3.333	Equipment replacement; Approximate dynamic program-ming; Rollout algorithm; State estimation; Genetic algorithm	Sadeghpour, H.; Tavakoli, A.; Kazemi, M.; Pooya, A. (2019). A novel approximate dynamic programming approach for constrained equipment replacement problems: A case study, *Advances in Production Engineering & Management,* Vol. 14, No. 3, 355-366, https://doi.org/10.14743/apem2019.3.333
332	Pellegrini, G.; Ravasio, C.	Evaluation of the sustainability of the micro-electrical discharge milling process	2019, 14(3), 343-354, 10.14743/apem2019.3.332	Electrical discharge machining (EDM); Micro-electrical discharge machining (micro-EDM); Micro-electrical discharge milling (micro-ED milling); Sustainability; Sustainability index; Dielectric fluid	Pellegrini, G.; Ravasio, C. (2019). Evaluation of the sustainability of the micro-electrical discharge milling process, *Advances in Production Engineering & Management,* Vol. 14, No. 3, 343-354, https://doi.org/10.14743/apem2019.3.332
331	Du, Y.; Wang, J.L.; Lei, L.	Multi-objective scheduling of cloud manufacturing resources through the integration of Cat swarm optimization and Firefly algorithm	2019, 14(3), 333-342, 10.14743/apem2019.3.331	Cloud manufacturing; Multi-objective scheduling; Cat swarm optimization (CSO); Firefly algorithm (FA)	Du, Y.; Wang, J.L.; Lei, L. (2019). Multi-objective scheduling of cloud manufacturing resources through the integration of Cat swarm optimization and Firefly algorithm, *Advances in Production Engineering & Management,* Vol. 14, No. 3, 333-342, https://doi.org/10.14743/apem2019.3.331
330	Modi, M.; Agarwal, G.	Effect of aluminium and chromium powder mixed dielectric fluid on electrical discharge machining effectiveness	2019, 14(3), 323-332, 10.14743/apem2019.3.330	Powder mixed-electro discharge machining (PMEDM); Aluminium powder; Chromium powder; Dielectric fluid; Productivity; Material removal rate (MRR); Surface roughness; Nimonic 80A alloy	Modi, M.; Agarwal, G. (2019). Effect of aluminium and chromium powder mixed dielectric fluid on electrical discharge machining effectiveness, *Advances in Production Engineering & Management*, Vol. 14, No. 3, 323-332, https://doi.org/10.14743/apem2019.3.330
329	Ocampo, L.A.; Himang, C.M.; Kumar, A.; Brezocnik, M.	A novel multiple criteria decision-making approach based on fuzzy DEMATEL, fuzzy ANP and fuzzy AHP for mapping collection and distribution centers in reverse logistics	2019, 14(3), 297-322, 10.14743/apem2019.3.329	Reverse logistics; Collection; Distribution; Fuzzy environment; Remanufacturing; Multiple criteria decision-making (MCDM); Decision-making and trial evaluation laboratory (DEMATEL); Analytic network process (ANP); Analytic hierarchy process (AHP)	Ocampo, L.A.; Himang, C.M.; Kumar, A.; Brezocnik, M. (2019). A novel multiple criteria decision-making approach based on fuzzy DEMATEL, fuzzy ANP and fuzzy AHP for mapping collection and distribution centers in reverse logistics, Adva*nces in Production Engineering & Management,* Vol. 14, No. 3, 297-322, https://doi.org/10.14743/apem2019.3.329

328	Hu, W.; Hu, Y.W.; Yao, W.H.; Lu, W.Q.; Li, H.H.; Lv, Z.W.	A blockchain-based smart contract trading mechanism for energy power supply and demand network	2019, 14(3), 284-296, **10.14743/apem2019.3.328**	Electric energy; Energy power supply and demand network (EPSDN); Blockchain; Smart contract; Encourage-real-quotation (ERQ) rule; Power transaction	Hu, W.; Hu, Y.W.; Yao, W.H.; Lu, W.Q.; Li, H.H.; Lv, Z.W. (2019). A blockchain-based smart contract trading mechanism for energy power supply and demand network, *Advances in Production Engineering & Management,* Vol. 14, No. 3, 284-296, https://doi.org/10.14743/apem2019.3.328
327	Jiang, C.; Xi, J.T.	Dynamic scheduling in the engineer-to-order (ETO) assembly process by the combined immune algorithm and simulated annealing method	2019, 14(3), 271-283, **10.14743/apem2019.3.327**	Engineer-to-order (ETO); Assembly process; Dynamic scheduling; Rescheduling; Rolling horizon; Immune algorithm; Simulated annealing	Jiang, C.; Xi, J.T. (2019). Dynamic scheduling in the engineer-to-order (ETO) assembly process by the combined immune algorithm and simulated annealing method, *Advances in Production Engineering & Management,* Vol. 14, No. 3, 271-283, https://doi.org/10.14743/apem2019.3.327
326	Singh, M.; Ramkumar, J.; Rao, R.V.; Balic, J.	Experimental investigation and multi-objective optimization of micro-wire electrical discharge machining of a titanium alloy using Jaya algorithm	2019, 14(2), 251-263, **10.14743/apem2019.2.326**	Micro-wire electrical discharge machining (Micro-WEDM); Multi-objective optimization; Titanium alloy; Kerf-loss; Cutting rate; Volumetric material removal rate; Feed-rate; Jaya algorithm; Multi objective-Jaya algorithm (MO-Jaya)	Singh, M.; Ramkumar, J.; Rao, R.V.; Balic, J. (2019). Experimental investigation and multi-objective optimization of micro-wire electrical discharge machining of a titanium alloy using Jaya algorithm, *Advances in Production Engineering & Management,* Vol. 14, No. 2, 251-263, https://doi.org/10.14743/apem2019.2.326
325	Zheng, Z.L.; Bao, X.	The investment strategy and capacity portfolio optimization in the supply chain with spillover effect based on artificial fish swarm algorithm	2019, 14(2), 239-250, **10.14743/apem2019.2.325**	Supply chain; Investment strategy; Capacity portfolio; Spillover; Artificial fish swam algorithm	Zheng, Z.L.; Bao, X. (2019). The investment strategy and capacity portfolio optimization in the supply chain with spillover effect based on artificial fish swarm algorithm, *Advances in Production Engineering & Management,* Vol. 14, No. 2, 239-250, https://doi.org/10.14743/apem2019.2.325
324	Gajic, S.; Palcic, I.	A new framework for complexity analysis in international development projects - Results from a Delphi study	2019, 14(2), 225-238, **10.14743/apem2019.2.324**	International development projects (ID); Project management; Complexity; Project complexity; Technology-organisation-environment (TOE); Delphi study	Gajic, S.; Palcic, I. (2019). A new framework for complexity analysis in international development projects - Results from a Delphi study, *Advances in Production Engineering & Management*, Vol. 14, No. 2, 225-238, https://doi.org/10.14743/apem2019.2.324
323	Gonzalez-Zapatero, C.; Gonzalez-Benito, J.; Lannelongue, G.	Effect of purchasing and marketing integration on new product development speed: The moderating role of environmental dynamism	2019, 14(2), 213-224, **10.14743/apem2019.2.323**	Product development; Innovation speed; Purchasing and marketing integration; Environmental dynamism; Information processing theory	Gonzalez-Zapatero, C.; Gonzalez-Benito, J.; Lannelongue, G. (2019). Effect of purchasing and marketing integration on new product development speed: The moderating role of environmental dynamism, *Advances in Production Engineering & Management,* Vol. 14, No. 2, 213-224, https://doi.org/10.14743/apem2019.2.323
322	Zhao, P.X.; Luo, W.H.; Han, X.	Time-dependent and bi-objective vehicle routing problem with time windows	2019, 14(2), 201-212, **10.14743/apem2019.2.322**	Vehicle routing problem; Time-dependency; Bi-objective optimization; Time windows; Pareto optimal solutions; Evolutionary algorithms; NSGA-II algorithm	Zhao, P.X.; Luo, W.H.; Han, X. (2019). Time-dependent and bi-objective vehicle routing problem with time windows, *Advances in Production Engineering & Management,* Vol. 14, No. 2, 201-212, https://doi.org/10.14743/apem2019.2.322
321	Liang, P.P.; Li, C.W.	Impact of cooperation uncertainty on the robustness of manufacturing service system	2019, 14(2), 189-200, **10.14743/apem2019.2.321**	Manufacturing service system; Complex system; Robustness; Robustness metric; Cooperation uncertainty	Liang, P.P.; Li, C.W. (2019). Impact of cooperation uncertainty on the robustness of manufacturing service system, *Advances in Production Engineering & Management,* Vol. 14, No. 2, 189-200, https://doi.org/10.14743/apem2019.2.321
320	Hu, W.	An improved flower pollination algorithm for optimization of intelligent logistics distribution center	2019, 14(2), 177-188, **10.14743/apem2019.2.320**	Intelligent logistics; Distribution center; Optimization; Intelligent optimization algorithm; Flower pollination algorithm; Intelligent location	Hu, W. (2019). An improved flower pollination algorithm for optimization of intelligent logistics distribution center, *Advances in Production Engineering & Management*, Vol. 14, No. 2, 177-188, https://doi.org/10.14743/apem2019.2.320
319	Istokovic, D.; Perinic, M.; Dobovicek, S.; Bazina, T.	Simulation framework for determining the order and size of the product batches in the flow shop: A case study	2019, 14(2), 166-176, **10.14743/apem2019.2.319**	Process planning; Flow shop; Sequence-dependent setup time; Batch scheduling; Discrete event simulation; Genetic algorithm (GA)	Istokovic, D.; Perinic, M.; Dobovicek, S.; Bazina, T. (2019). Simulation framework for determining the order and size of the product batches in the flow shop: A case study, *Advances in Production Engineering & Management,* Vol. 14, No. 2, 166-176, https://doi.org/10.14743/apem2019.2.319
318	Resman, M.; Pipan, M.; Simic, M.; Herakovic, N.	A new architecture model for smart manufacturing: A performance analysis and comparison with the RAMI 4.0 reference model	2019, 14(2), 153-165, **10.14743/apem2019.2.318**	Industry 4.0; Smart manufacturing; Smart factory; Architectural model; Reference architectural model; RAMI 4.0	Resman, M.; Pipan, M.; Simic, M.; Herakovic, N. (2019). A new architecture model for smart manufacturing: A performance analysis and comparison with the RAMI 4.0 reference model, *Advances in Production Engineering & Management,* Vol. 14, No. 2, 153-165, https://doi.org/10.14743/apem2019.2.318
317	Tahir, W.; Jahanzaib, M.; Raza, A.	Effect of process parameters on cutting speed of wire EDM process in machining HSLA steel with cryogenic treated brass wire	2019, 14(2), 143-152, **10.14743/apem2019.2.317**	Wire electrical discharge machining (WEDM); HSLA steel; Brass wire; Cryogenic treatment; Cutting speed; Process parameters	Tahir, W.; Jahanzaib, M.; Raza, A. (2019). Effect of process parameters on cutting speed of wire EDM process in machining HSLA steel with cryogenic treated brass wire, *Advances in Production Engineering & Management,* Vol. 14, No. 2, 143-152, https://doi.org/10.14743/apem2019.2.317
316	Min, J.N.; Jin, C.; Lu, L.J.	Maximum-minimum distance clustering method for split-delivery vehicle-routing problem: Case studies and performance comparisons	2019, 14(1), 125-135, **10.14743/apem2019.1.316**	Split-delivery vehicle-routing problem; Maximum-minimum distance method; Load-demand adjustment; Route optimisation; Tabu search; Clustering first and routing later	Min, J.N.; Jin, C.; Lu, L.J. (2019). Maximum-minimum distance clustering method for split-delivery vehicle-routing problem: Case studies and performance comparisons, *Advances in Production Engineering & Management,* Vol. 14, No. 1, 125-135, https://doi.org/10.14743/apem2019.1.316
315	Keshavarzfard, R.; Makui, A.; Tavakkoli-Moghaddam, R.	A multi-product pricing and inventory model with production rate proportional to power demand rate	2019, 14(1), 112-124, **10.14743/apem2019.1.315**	Pricing model; Inventory model; Economic production quantity (EPQ); Backordered shortages; Power demand pattern	Keshavarzfard, R.; Makui, A.; Tavakkoli-Moghaddam, R. (2019). A multi-product pricing and inventory model with production rate proportional to power demand rate, *Advances in Production Engineering & Management,* Vol. 14, No. 1, 112-124, https://doi.org/10.14743/apem2019.1.315
314	Zhang, Z.L.; Wang, Y.F.; Li, Y.	Inventory control model based on multi-attribute material classification: An integrated grey-rough set and probabilistic neural network approach	2019, 14(1), 93-111, **10.14743/apem2019.1.314**	Inventory control strategy; Modelling; Material classification; Grey rough set; Probabilistic neural network	Zhang, Z.L.; Wang, Y.F.; Li, Y. (2019). Inventory control model based on multi-attribute material classification: An integrated grey-rough set and probabilistic neural network approach, *Advances in Production Engineering & Management,* Vol. 14, No. 1, 93-111, https://doi.org/10.14743/apem2019.1.314
313	Homaei, H.; Mahdavi, I.; Tajdin, A.; Khorram, E.	Product quality improvement and air pollutant emission reduction in a mining metal three-stage supply chain under cap-and-trade regulation	2019, 14(1), 80-92, **10.14743/apem2019.1.313**	Mining metals; Supply chain; Quality improvement; Channel coordination; Emissions reduction; Cap-and-trade regulation	Homaei, H.; Mahdavi, I.; Tajdin, A.; Khorram, E. (2019). Product quality improvement and air pollutant emission reduction in a mining metal three-stage supply chain under cap-and-trade regulation, *Advances in Production Engineering & Management,* Vol. 14, No. 1, 80-92, https://doi.org/10.14743/apem2019.1.313
312	Gong, D.; Tang, M.; Liu, S.; Xue, G.; Wang, L.	Achieving sustainable transport through resource scheduling: A case study for electric vehicle charging stations	2019, 14(1), 65-79, **10.14743/apem2019.1.312**	Sustainable transport; Resource scheduling; Electric vehicle; Charging station; Simulation; Profit	Gong, D.; Tang, M.; Liu, S.; Xue, G.; Wang, L. (2019). Achieving sustainable transport through resource scheduling: A case study for electric vehicle charging stations, *Advances in Production Engineering & Management,* Vol. 14, No. 1, 65-79, https://doi.org/10.14743/apem2019.1.312
311	Chutima, P.; Suchanun, T.	Productivity improvement with parallel adjacent U-shaped assembly lines	2019, 14(1), 51-64, **10.14743/apem2019.1.311**	Assembly line; U-shaped assembly line; Parallel adjacent assembly line; Assembly line balancing; Productivity improvement; Multi-objective optimisation; Evolutionary algorithm (MOEA/D); Particle swarm optimisation (PSO)	Chutima, P.; Suchanun, T. (2019). Productivity improvement with parallel adjacent U-shaped assembly lines, *Advances in Production Engineering & Management,* Vol. 14, No. 1, 51-64, https://doi.org/10.14743/apem2019.1.311
310	Crnjac, M.; Aljinovic, A.; Gjeldum, N.; Mladineo, M.	Two-stage product design selection by using PROMETHEE and Taguchi method: A case study	2019, 14(1), 39-50, **10.14743/apem2019.1.310**	Learning factory; Lean manufacturing; Design optimization; PROMETHEE method; Taguchi method	Crnjac, M.; Aljinovic, A.; Gjeldum, N.; Mladineo, M. (2019). Two-stage product design selection by using PROMETHEE and Taguchi method: A case study, *Advances in Production Engineering & Management,* Vol. 14, No. 1, 39-50, https://doi.org/10.14743/apem2019.1.310

309	Grguras, D.; Kern, M.; Pusavec, F.	Cutting performance of solid ceramic and carbide end milling tools in machining of nickel based alloy Inconel 718 and stainless steel 316L	2019, 14(1), 27-38, **10.14743/apem2019.1.309**	Milling; Ceramic end mill; Carbide end mill; Inconel 718; Stainless steel 316L; Productivity	Grguras, D.; Kern, M.; Pusavec, F. (2019). Cutting performance of solid ceramic and carbide end milling tools in machining of nickel based alloy Inconel 718 and stainless steel 316L, *Advances in Production Engineering & Management,* Vol. 14, No. 1, 27-38, https://doi.org/10.14743/apem2019.1.309
308	Bratina, B.; Safaric, J.; Uran, S.; Safaric, R.	Determination of nano-roughness for micro-objects by measuring the van der Waals force	2019, 14(1), 15-26, **10.14743/apem2019.1.308**	Micro-object; Surface roughness; Nano-roughness; Van der Waals force; Distance at van der Waals peak	Bratina, B.; Safaric, J.; Uran, S.; Safaric, R. (2019). Determination of nano-roughness for micro-objects by measuring the van der Waals force, *Advances in Production Engineering & Management,* Vol. 14, No. 1, 15-26, https://doi.org/10.14743/apem2019.1.308
307	Farahani, A.; Tohidi, H.; Shoja, A.	An integrated optimization of quality control chart parameters and preventive maintenance using Markov chain	2019, 14(1), 5-14, **10.14743/apem2019.1.307**	Maintenance; Optimization; Chart control; Non-linear model; Markov chain	Farahani, A.; Tohidi, H.; Shoja, A. (2019). An integrated optimization of quality control chart parameters and preventive maintenance using Markov chain, *Advances in Production Engineering & Management,* Vol. 14, No. 1, 5-14, https://doi.org/10.14743/apem2019.1.307