No.	Authors	Title	Key Words	Vol., No., pages	DOI link	Citation data
1	Fan, Y. Y.	Demand Prediction of Production Materials and Simulation of Production Management	Markov Model, Demand Prediction of Production Materials, Simulation of Production Management	21, 4, 720-731	10.2507/IJSIMM21-4-CO20	Fan Y. Y. (2022). Demand Prediction of Production Materials and Simulation of Production Management. *Int. Journal of Simulation Modelling*, Vol. 21, No. 4, p. 720-731
2	Deng, J.-X. & Chen, X.-Y.	Simulation of Impact of Resource Competition on Shared Resource Utilisation	System Dynamics, Resource Matching Platform, Resource Utilisation, Demander Response Success Rate, Business Response	21, 4, 708-719	10.2507/IJSIMM21-4-CO19	Deng J.-X., Chen X.-Y. (2022). Simulation of Impact of Resource Competition on Shared Resource Utilisation. *Int. Journal of Simulation Modelling*, Vol. 21, No. 4, p. 708-719
3	Wang, Y.; Zhang, S. Y.; Zhang, Q. P.; Lin, S. M. & Pang, G. S.	IoT-Based Distributed Simulation of Industrial Automation Production Line Management	IoT, Industrial Automated Production, Production Line Management (PLM), Distributed Emulation	21, 4, 696-707	10.2507/IJSIMM21-4-CO18	Wang Y., Zhang S. Y., Zhang Q. P., Lin S. M., Pang G. S. (2022). IoT-Based Distributed Simulation of Industrial Automation Production Line Management. *Int. Journal of Simulation Modelling*, Vol. 21, No. 4, p. 696-707
4	Chen, W. & Hao, Y. F.	A Combined Service Optimization and Production Control Simulation System	Intelligent Manufacturing, Combined Service Optimization, Production Control, Simulation System Design and Development	21, 4, 684-695	10.2507/IJSIMM21-4-CO17	Chen W., Hao Y. F. (2022). A Combined Service Optimization and Production Control Simulation System. *Int. Journal of Simulation Modelling*, Vol. 21, No. 4, p. 684-695
5	Wang, Y. L.; Zheng, X. Y.; Yin, X. M. & Cai, J. R.	Simulation of Financing Decisions with Behavioural Preferences and Yield Uncertainty	Financing Decisions, Stockout Aversion, Waste Aversion, Yield Uncertainty, Supply Chain	21, 4, 675-683	10.2507/IJSIMM21-4-CO16	Wang Y. L., Zheng X. Y., Yin X. M., Cai J. R. (2022). Simulation of Financing Decisions with Behavioural Preferences and Yield Uncertainty. *Int. Journal of Simulation Modelling*, Vol. 21, No. 4, p. 675-683
6	Stevanov, B.; Sremcev, N.; Lazarevic, M.; Anderla, A.; Sladojevic, S. & Vidicki, P.	Optimization of the Subassembly Production Process Using Simulation	Simulation Optimization, Manufacturing, Parts Group Schedule, Batch Size, Interarrival Time, Subassembly Process	21, 4, 663-674	10.2507/IJSIMM21-4-633	Stevanov B., Sremcev N., Lazarevic M., Anderla A., Sladojevic S., Vidicki P. (2022). Optimization of the Subassembly Production Process Using Simulation. *Int. Journal of Simulation Modelling*, Vol. 21, No. 4, p. 663-674
7	Zhang, X.; Li, X.; Gao, K. D. & Zeng, Q. L.	Analysis of Different Positional Relationships of Adjacent Double Picks on Cutting Force	Numerical Simulation, Adjacent Picks, Spacing between Picks, Cutting Depth, Cutting Force	21, 4, 651-662	10.2507/IJSIMM21-4-625	Zhang X., Li X., Gao K. D., Zeng Q. L. (2022). Analysis of Different Positional Relationships of Adjacent Double Picks on Cutting Force. *Int. Journal of Simulation Modelling*, Vol. 21, No. 4, p. 651-662
8	Zuperl, U.; Kovacic, M. & Brezocnik, M.	An ANFIS-Mechanistic Simulator of Tool Loads in Ball-End Milling of Layered Metal Materials	Ball-End Milling, Layered Metal Material, Cutting Edge Loads, Coefficients of Material, ANFIS-Mechanistic Simulator	21, 4, 639-650	10.2507/IJSIMM21-4-624	Zuperl U., Kovacic M., Brezocnik M. (2022). An ANFIS-Mechanistic Simulator of Tool Loads in Ball-End Milling of Layered Metal Materials. *Int. Journal of Simulation Modelling*, Vol. 21, No. 4, p. 639-650
9	Ojstersek, R.; Javernik, A. & Buchmeister, B.	Importance of Sustainable Collaborative Workplaces – Simulation Modelling Approach	Sustainable Manufacturing, Manufacturing Efficiency, Collaborative Workplace, Collaborative Robot, Cobot, Simulation Modelling	21, 4, 627-638	10.2507/IJSIMM21-4-623	Ojstersek R., Javernik A., Buchmeister B. (2022). Importance of Sustainable Collaborative Workplaces – Simulation Modelling Approach. *Int. Journal of Simulation Modelling*, Vol. 21, No. 4, p. 627-638
10	Visagan, A. & Ganesh, P.	Parametric Optimization of Two Point Incremental Forming Using GRA and TOPSIS	Two Point Incremental Forming, Surface Roughness, Thickness, Taguchi, Grey Relational Analysis, TOPSIS, ANOVA	21, 4, 615-626	10.2507/IJSIMM21-4-622	Visagan A., Ganesh P. (2022). Parametric Optimization of Two Point Incremental Forming Using GRA and TOPSIS. *Int. Journal of Simulation Modelling*, Vol. 21, No. 4, p. 615-626
11	Liu, G. F.; Cui, X. Y.; Li, Z. Z.; Wang, J. H.; Zhang, X. D. & Bai, Z. H.	Shape Change Simulation Analysis of Wheel Steel in a Four-High Hot Rolling Mill	Hot Rolling, Continuous Rolling, Plate Shape, Finite Element	21, 4, 603-614	10.2507/IJSIMM21-4-621	Liu G. F., Cui X. Y., Li Z. Z., Wang J. H., Zhang X. D., Bai Z. H. (2022). Shape Change Simulation Analysis of Wheel Steel in a Four-High Hot Rolling Mill. *Int. Journal of Simulation Modelling*, Vol. 21, No. 4, p. 603-614
12	Kirli Akin, H. & Ordu, M.	A Novel Simulation-Based Two-Stage Optimization Approach for Nurse Planning	Discrete Event Simulation, Mathematical Modelling, Optimization, Covid19, Nurse Scheduling, Capacity Planning	21, 4, 591-602	10.2507/IJSIMM21-4-618	Kirli Akin H., Ordu M. (2022). A Novel Simulation-Based Two-Stage Optimization Approach for Nurse Planning. *Int. Journal of Simulation Modelling*, Vol. 21, No. 4, p. 591-602
13	Leelatanon, S.; Jantawee, S.; Vannarat, S. & Matan, N.	Assessment of Asymmetrical Stress Profile within Wood Using Restoring Force Technique	Stress Assessment, Finite Element Model, Elastic Beam Theory, Asymmetrical Stress Profile, Wooden Specimen	21, 4, 579-590	10.2507/IJSIMM21-4-617	Leelatanon S., Jantawee S., Vannarat S., Matan N. (2022). Assessment of Asymmetrical Stress Profile within Wood Using Restoring Force Technique. *Int. Journal of Simulation Modelling*, Vol. 21, No. 4, p. 579-590
14	Wittmann, J.; Hüter, F.; Zahn, A.; Tremmel, S. & Rieg, F.	On the Choice of the Numerical Contact Stiffness Parameter for the Modal Analysis	Finite-Element Modal Analysis, Computational Contact Mechanics, Contact Stiffness, Experimental Modal Analysis	21, 4, 567-578	10.2507/IJSIMM21-4-616	Wittmann J., Hüter F., Zahn A., Tremmel S., Rieg F. (2022). On the Choice of the Numerical Contact Stiffness Parameter for the Modal Analysis. *Int. Journal of Simulation Modelling*, Vol. 21, No. 4, p. 567-578
15	She, Q. C.; Chen, C. S.; Yan, D. H.; Wu, L. M. & Huang, G.	Shear Lag Effect Study of a Composite Girder Cable-Stayed Bridge During Construction	Composite Twin-Box Girder, Construction Stage, Shear-Lag Effect, Stress Test, Finite Element Method	21, 4, 555-566	10.2507/IJSIMM21-4-615	She Q. C., Chen C. S., Yan D. H., Wu L. M., Huang G. (2022). Shear Lag Effect Study of a Composite Girder Cable-Stayed Bridge During Construction. *Int. Journal of Simulation Modelling*, Vol. 21, No. 4, p. 555-566
16	Li, Z. P.	Management Decisions in Multi-Variety Small-Batch Product Manufacturing Process	Discrete Production Environment, Multi-Variety Small-Batch, Product Manufacturing Process, Management Decisions, Simulation	21, 3, 537-547	10.2507/IJSIMM21-3-CO15	Li Z.P. (2022). Management Decisions in Multi-Variety Small-Batch Product Manufacturing Process. *Int. Journal of Simulation Modelling*, Vol. 21, No. 3, p. 537-547
17	Huo, L. & Wang, J. Y.	Flexible Job Shop Scheduling Based on Digital Twin and Improved Bacterial Foraging	Flexible Job Shop Scheduling, Improved Bacteria Foraging Optimization Algorithm, Digital Twin, Complex Product, Dynamic Scheduling	21, 3, 525-536	10.2507/IJSIMM21-3-CO14	Huo L., Wang J. Y. (2022). Flexible Job Shop Scheduling Based on Digital Twin and Improved Bacterial Foraging. *Int. Journal of Simulation Modelling*, Vol. 21, No. 3, p. 525-536
18	Liu, Y.; Fan, W. G.; Zhang, X. L.; Wu, Z. W. & Wu, C. X.	Static Contact Modelling and Analysis for Rail Grinding with Abrasive Belt	Rail Grinding, Abrasive Belt, Contact, Stress Distribution	21, 3, 513-524	10.2507/IJSIMM21-3-CO13	Liu Y., Fan W. G., Zhang X. L., Wu Z. W., Wu C. X. (2022). Static Contact Modelling and Analysis for Rail Grinding with Abrasive Belt. *Int. Journal of Simulation Modelling*, Vol. 21, No. 3, p. 513-524
19	Zhou, Q. H.; Zhu, X. Y.; Sun, J. M. & Li, J.	Control of Welding Residual Stress and Deformation for the Rod Support of a Crane	Tower Crane, Welding, Residual Stress, Numerical Simulation, Deformation	21, 3, 501-512	10.2507/IJSIMM21-3-CO12	Zhou Q. H., Zhu X. Y., Sun J. M., Li J. (2022). Control of Welding Residual Stress and Deformation for the Rod Support of a Crane. *Int. Journal of Simulation Modelling*, Vol. 21, No. 3, p. 501-512

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20	Yan, L. X.; Jia, L.; Guo, J. H. & Lu, S.	A Simulation Study on the Identification of Eco-Driving Behaviour	Eco-Driving, Driving Behaviour, Time Series Segmentation, Piecewise Linear Representation, Random Forest	21, 3, 489-500	10.2507/IJSIMM21-3-CO11	Yan L. X., Jia L., Guo J. H., Lu S. (2022). A Simulation Study on the Identification of Eco-Driving Behaviour. *Int. Journal of Simulation Modelling*, Vol. 21, No. 3, p. 489-500
21	Liu, M. L.; Yao, X. Z.; Huang, J. Y. & Zhang, C.	Optimization of Unmanned Vehicle Scheduling and Order Allocation	Unmanned Vehicle, Vehicle Scheduling, Order Allocation, Improved Genetic Algorithm	21, 3, 477-488	10.2507/IJSIMM21-3-613	Liu M. L., Yao X. Z., Huang J. Y., Zhang C. (2022). Optimization of Unmanned Vehicle Scheduling and Order Allocation. *Int. Journal of Simulation Modelling*, Vol. 21, No. 3, p. 477-488
22	Grznar, P.; Gregor, M.; Gola, A.; Nielsen, I.; Mozol, S. & Seliga, V.	Quick Workplace Analysis Using Simulation	Workplace Analysis, Computer Simulation, Object-Oriented Modelling, TX Plant Simulation	21, 3, 465-476	10.2507/IJSIMM21-3-612	Grznar P., Gregor M., Gola A., Nielsen I., Mozol S., Seliga V. (2022). Quick Workplace Analysis Using Simulation. *Int. Journal of Simulation Modelling*, Vol. 21, No. 3, p. 465-476
23	Xi, W.; Lu, W. G.; Wang, C. & Liu, J. F.	Analysis of Pumping Station Inlet Characteristics Based on Vorticity	Pump Station Engineering, Side-Pump Sump, Vorticity, Adherent Vortex	21, 3, 453-464	10.2507/IJSIMM21-3-610	Xi W., Lu W. G., Wang C., Liu J. F. (2022). Analysis of Pumping Station Inlet Characteristics Based on Vorticity. *Int. Journal of Simulation Modelling*, Vol. 21, No. 3, p. 453-464
24	Ordu, M.	A Simulation-Based Decision-Making Approach to Evaluate the Returns on Investments	Simulation, System Dynamics, Engineering Economy, Decision Support System, Individual Pension System, Pension Plans	21, 3, 441-452	10.2507/IJSIMM21-3-609	Ordu M. (2022). A Simulation-Based Decision-Making Approach to Evaluate the Returns on Investments. *Int. Journal of Simulation Modelling*, Vol. 21, No. 3, p. 441-452
25	Ibrahim, N.; Hassan, F. H.; Ab Wahab, M. N. & Letchmunan, S.	Emergency Route Planning with the Shortest Path Methods: Static and Dynamic Obstacles	Emergency Route Plan, Shortest Path, Pedestrian Simulation, Pedestrian Evacuation, Pythagorean Theorem, Dijkstra's Algorithm	21, 3, 429-440	10.2507/IJSIMM21-3-608	Ibrahim N., Hassan F. H., Ab Wahab M. N., Letchmunan S. (2022). Emergency Route Planning with the Shortest Path Methods: Static and Dynamic Obstacles. *Int. Journal of Simulation Modelling*, Vol. 21, No. 3, p. 429-440
26	Vukelic, D.; Prica, M.; Ivanov, V.; Jovicic, G.; Budak, I. & Luzanin, O.	Optimization of Surface Roughness Based on Turning Parameters and Insert Geometry	Surface Roughness, Turning Parameters, Insert Geometry, Modelling, Optimization	21, 3, 417-428	10.2507/IJSIMM21-3-607	Vukelic D., Prica M., Ivanov V., Jovicic G., Budak I., Luzanin O. (2022). Optimization of Surface Roughness Based on Turning Parameters and Insert Geometry. *Int. Journal of Simulation Modelling*, Vol. 21, No. 3, p. 417-428
27	Thomas, S. K.; Ali, A.; AlArjani, A. & Attia, E.-A.	Simulation Based Performance Improvement: a Case Study on Automotive Industries	Automotive Industry, Performance Improvement, Project Charter, Discrete Event Simulation, Arena Simulation, Design of Experiment, Root Cause An.	21, 3, 405-416	10.2507/IJSIMM21-3-606	Thomas S. K., Ali A., AlArjani A., Attia E.-A. (2022). Simulation Based Performance Improvement: a Case Study on Automotive Industries. *Int. Journal of Simulation Modelling*, Vol. 21, No. 3, p. 405-416
28	Oliveira, M. S.; Leal, F.; Pereira, T. F. & Montevechi, J. A. B.	Facilitated Discrete Event Simulation for Industrial Processes: a Critical Analysis	Facilitated Modelling, Small and Medium Enterprises, Soft Operational Research, Facilitated Simulation Modelling	21, 3, 395-404	10.2507/IJSIMM21-3-604	Oliveira M. S., Leal F., Pereira T. F., Montevechi J. A. B. (2022). Facilitated Discrete Event Simulation for Industrial Processes: a Critical Analysis. *Int. Journal of Simulation Modelling*, Vol. 21, No. 3, p. 395-404
29	Rasovic, N.; Cekic, A. & Kaljun, J.	Design and Simulation of the Controlled Failure of Custom-Built Rigid Shaft Coupling	Shaft Coupling, Design, Dimensioning, Fatigue, Simulation, Custom Design	21, 3, 383-394	10.2507/IJSIMM21-3-596	Rasovic N., Cekic A., Kaljun J. (2022). Design and Simulation of the Controlled Failure of Custom-Built Rigid Shaft Coupling. *Int. Journal of Simulation Modelling*, Vol. 21, No. 3, p. 383-394
30	Yang, S. Y. & Tan, C.	Blockchain-Based Collaborative Management of Job Shop Supply Chain	Blockchain, Production Materials, Supply Chain, Collaborative Management	21, 2, 364-374	10.2507/IJSIMM21-2-CO10	Yang S. Y., Tan C. (2022). Blockchain-Based Collaborative Management of Job Shop Supply Chain. *Int. Journal of Simulation Modelling*, Vol. 21, No. 2, p. 364-374
31	Zhou, M. X. & Li, X.	Low-Carbon Production Control and Resource Allocation Optimization	Integrated Simulation, Low-Carbon Production, Production Control, Resource Allocation	21, 2, 352-363	10.2507/IJSIMM21-2-CO9	Zhou M. X., Li X. (2022). Low-Carbon Production Control and Resource Allocation Optimization. *Int. Journal of Simulation Modelling*, Vol. 21, No. 2, p. 352-363
32	Liu, Z. H.; Wu, J. F.; Hu, T. & Xu, Y. L.	Numerical Analysis on Multiphase Flow in Near-Wall and Near-Bottom Areas	Multiphase Flow, Spiral Ribbon-Frame Combined Paddle, Near-Wall Area, Near-Bottom Area, Flow Mechanism	21, 2, 341-351	10.2507/IJSIMM21-2-CO8	Liu Z. H., Wu J. F., Hu T., Xu Y. L. (2022). Numerical Analysis on Multiphase Flow in Near-Wall and Near-Bottom Areas. *Int. Journal of Simulation Modelling*, Vol. 21, No. 2, p. 341-351
33	Yu, Y. X.; Huang, Y.; Geng, H. H. & Cha, L. L.	Process Parameters Optimisation for Spring Seat Based on Response Surface Methodology	Spring Seat, Multistep Stamping Process, Simulation Modelling, Response Surface Methodology (RSM), Stamping Test	21, 2, 332-340	10.2507/IJSIMM21-2-CO7	Yu Y. X., Huang Y., Geng H. H., Cha L. L. (2022). Process Parameters Optimisation for Spring Seat Based on Response Surface Methodology. *Int. Journal of Simulation Modelling*, Vol. 21, No. 2, p. 332-340
34	Yang, L.; Yang, B.; Yang, G. W.; Xiao, S. N.; Zhu, T. & Wang, F.	Fatigue-Life Evaluation Method for Ring-Welded Joints	Ring-Welded Joints, ΔS–N Curve, Fa–N Curve, Finite Element Simulation, Fatigue Evaluation	21, 2, 320-331	10.2507/IJSIMM21-2-CO6	Yang L., Yang B., Yang G. W., Xiao S. N., Zhu T., Wang F. (2022). Fatigue-Life Evaluation Method for Ring-Welded Joints. *Int. Journal of Simulation Modelling*, Vol. 21, No. 2, p. 320-331
35	Puskar, M.; Kopas, M.; Soltesova, M. & Tarbajovsky, P.	Simulation Model of Advanced System for Application of Sustainable Fuels	Simulation Model, Advanced System, Sustainability, Biofuel, Combustion	21, 2, 308-319	10.2507/IJSIMM21-2-611	Puskar M., Kopas M., Soltesova M., Tarbajovsky P. (2022). Simulation Model of Advanced System for Application of Sustainable Fuels. *Int. Journal of Simulation Modelling*, Vol. 21, No. 2, p. 308-319
36	Shi, H. X.; Meng, J.; Li, Y.; Zhang, H. Z.; Wang, F. & Xu, W.	Effects of Fitting Error on the Hydraulic Performance of Bionic Hydrofoils	Bionic Hydrofoil, B-Spline, Local Refinement, Transient Cavitation Flow	21, 2, 296-307	10.2507/IJSIMM21-2-605	Shi H. X., Meng J., Li Y., Zhang H. Z., Wang F., Xu W. (2022). Effects of Fitting Error on the Hydraulic Performance of Bionic Hydrofoils. *Int. Journal of Simulation Modelling*, Vol. 21, No. 2, p. 296-307
37	Jiang, S. B.; Huang, S.; Zeng, Q. L.; Wang, C. L.; Gao, K. D. & Zhang, Y. Q.	Dynamic Properties of Chain Drive System Considering Multiple Impact Factors	Scraper Conveyor, Dynamic Property, Impact Load, Joint Simulation	21, 2, 284-295	10.2507/IJSIMM21-2-603	Jiang S. B., Huang S., Zeng Q. L., Wang C. L., Gao K. D., Zhang Y. Q. (2022). Dynamic Properties of Chain Drive System Considering Multiple Impact Factors. *Int. Journal of Simulation Modelling*, Vol. 21, No. 2, p. 284-295
38	Uncu, N.	Load Balancing in Polling Systems under Different Policies via Simulation Optimization	Multi-Class Queues, Polling Systems, Routing, Simulation	21, 2, 273-283	10.2507/IJSIMM21-2-602	Uncu N. (2022). Load Balancing in Polling Systems under Different Policies via Simulation Optimization. *Int. Journal of Simulation Modelling*, Vol. 21, No. 2, p. 273-283

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39	Guo, X. Y.; Zeng, Z.; Li, M. X. & Fu, S.	Simulation of Aircraft Cabin Evacuation Strategy Based on Exit Flow Equilibrium	Cabin Evacuation, Exit Flow Equalization, Evacuation Sequence, Evacuation Efficiency	21, 2, 261-272	10.2507/IJSIMM21-2-601	Guo X. Y., Zeng Z., Li M. X., Fu S. (2022). Simulation of Aircraft Cabin Evacuation Strategy Based on Exit Flow Equilibrium. *Int. Journal of Simulation Modelling*, Vol. 21, No. 2, p. 261-272
40	Pezdevsek, M.; Kevorkijan, L. & Bilus, I.	Cavitation Erosion Modelling – Comparison of Two Solid Angle Projection Approaches	Cavitation, Erosion, Solid Angle, Numerical Simulation	21, 2, 249-260	10.2507/IJSIMM21-2-600	Pezdevsek M., Kevorkijan L., Bilus I. (2022). Cavitation Erosion Modelling – Comparison of Two Solid Angle Projection Approaches. *Int. Journal of Simulation Modelling*, Vol. 21, No. 2, p. 249-260
41	Lopes, H.; Silva, S. P. & Machado, J.	FEA Approach for Predicting the Dynamic Behaviour of Cork-Rubber Composites	Cork-Rubber Composites, Dynamic Compression, Dynamic Stiffness, FEA, Natural Frequency, Shape Factor	21, 2, 237-248	10.2507/IJSIMM21-2-599	Lopes H., Silva S. P., Machado J. (2022). FEA Approach for Predicting the Dynamic Behaviour of Cork-Rubber Composites. *Int. Journal of Simulation Modelling*, Vol. 21, No. 2, p. 237-248
42	Daneshjo, N.; Mares, A.; Malega, P. & Francova, Z.	CAD Model of Rear-View Mirror and Simulation of Its Aerodynamics and Noise	Rear-View Mirror, CAD Modelling, Airflow, Simulation, Noise, Aerodynamics	21, 2, 226-236	10.2507/IJSIMM21-2-598	Daneshjo N., Mares A., Malega P., Francova Z. (2022). CAD Model of Rear-View Mirror and Simulation of Its Aerodynamics and Noise. *Int. Journal of Simulation Modelling*, Vol. 21, No. 2, p. 226-236
43	Straka, M.; Sofranko, M.; Glova Vegsoova, O. & Kovalcik, J.	Simulation of Homogeneous Production Processes	Homogeneous Production Processes, Manufacturing Logistics, Streamlining the Mining Industry, Simulation, ExtendSim, System	21, 2, 214-225	10.2507/IJSIMM21-2-597	Straka M., Sofranko M., Glova Vegsoova O., Kovalcik J. (2022). Simulation of Homogeneous Production Processes. *Int. Journal of Simulation Modelling*, Vol. 21, No. 2, p. 214-225
44	Rodrigues, M. V. T.; Sirova, E. & Dyntar, J.	Maintenance Scheduling of Heating Networks Using Simulation in Witness	Preventive Maintenance, Maintenance Scheduling, Vehicle Routing, Discrete-Event Simulation, Witness	21, 2, 203-213	10.2507/IJSIMM21-2-590	Rodrigues M. V. T., Sirova E., Dyntar J. (2022). Maintenance Scheduling of Heating Networks Using Simulation in Witness. *Int. Journal of Simulation Modelling*, Vol. 21, No. 2, p. 203-213
45	Wang, Z. J. & Suo, J.	Optimization of Flexible Production Logistics under Low Carbon Constraint	Carbon Efficiency, Flexible Production Logistics, Low Carbon Constraint, Linear Programming	21, 1, 184-195	10.2507/IJSIMM21-1-CO5	Wang Z. J., Suo J. (2022). Optimization of Flexible Production Logistics under Low Carbon Constraint. *Int. Journal of Simulation Modelling*, Vol. 21, No. 1, p. 184-195
46	Zhang, L. Y.; Duan, X. K.; Ma, J.; Zhang, M.; Wen, Y. & Wang, Y.	Mechanism of Road Capacity under Different Penetration Scenarios of Autonomous Vehicles	Autonomous Vehicles; Road Capacity, Mixed Traffic Flow, SUMO, Penetration Rate	21, 1, 172-183	10.2507/IJSIMM21-1-CO4	Zhang L. Y., Duan X. K., Ma J., Zhang M., Wen Y., Wang Y. (2022). Mechanism of Road Capacity under Different Penetration Scenarios of Autonomous Vehicles. *Int. Journal of Simulation Modelling*, Vol. 21, No. 1, p. 172-183
47	Xu, N.; Hou, X. Y. & Jia, N.	Optimization of Multi-Stage Production Scheduling of Automated Production	Automated Production, Multi-Stage Production, Production Scheduling	21, 1, 160-171	10.2507/IJSIMM21-1-CO3	Xu N., Hou X. Y., Jia N. (2022). Optimization of Multi-Stage Production Scheduling of Automated Production. *Int. Journal of Simulation Modelling*, Vol. 21, No. 1, p. 160-171
48	Sun, J.; Liu, S. F.; Zhang, X. H. & Gong, D. Q.	Simulation-Based Modelling of the Impact of Ridesharing on Urban System	Ride-Hailing, Ridesharing, Agent-Based Model, Simulation	21, 1, 148-159	10.2507/IJSIMM21-1-CO2	Sun J., Liu S. F., Zhang X. H., Gong D. Q. (2022). Simulation-Based Modelling of the Impact of Ridesharing on Urban System. *Int. Journal of Simulation Modelling*, Vol. 21, No. 1, p. 148-159
49	Huang, Z. & Yang, J. J.	A New Model for Optimization of Cell Scheduling Considering Inter-Cell Movement	Inter-Cell Scheduling, Harmony Search, Cell Scheduling Sequence, Adaptive Neuro-Fuzzy Inference System, Extended Disjunctive Graph	21, 1, 136-147	10.2507/IJSIMM21-1-CO1	Huang Z., Yang J. J. (2022). A New Model for Optimization of Cell Scheduling Considering Inter-Cell Movement. *Int. Journal of Simulation Modelling*, Vol. 21, No. 1, p. 136-147
50	Wang, S. R. & Huang, Q.	A Hybrid Code Genetic Algorithm for VRP in Public-Private Emergency Collaborations	Emergency Logistics, Vehicle Routing Problem, Genetic Algorithm, Health Emergencies	21, 1, 124-135	10.2507/IJSIMM21-1-595	Wang S. R., Huang Q. (2022). A Hybrid Code Genetic Algorithm for VRP in Public-Private Emergency Collaborations. *Int. Journal of Simulation Modelling*, Vol. 21, No. 1, p. 124-135
51	Kovacic, B.; Mursec, L. & Lubej, S.	Synchronisation of Contactless Vibration Monitoring Methods	Model Synchronisation, Displacement Simulation, Geodetic Measurements, Physical Measurements	21, 1, 113-123	10.2507/IJSIMM21-1-594	Kovacic B., Mursec L., Lubej S. (2022). Synchronisation of Contactless Vibration Monitoring Methods. *Int. Journal of Simulation Modelling*, Vol. 21, No. 1, p. 113-123
52	Pekarcikova, M.; Trebuna, P.; Kliment, M. & Schmacher, B. A. K.	Milk Run Testing through Tecnomatix Plant Simulation Software	Milk Run, Logistics, Model, Simulation, Lean Production	21, 1, 101-112	10.2507/IJSIMM21-1-593	Pekarcikova M., Trebuna P., Kliment M., Schmacher B. A. K. (2022). Milk Run Testing through Tecnomatix Plant Simulation Software. *Int. Journal of Simulation Modelling*, Vol. 21, No. 1, p. 101-112
53	Fu, S.; Guo, X. Y.; Dong, L. H.; Sheng, K. & Sun, A.	Numerical Simulation of Migration Laws of Dense Particle Flow in Pipelines	Dense Discrete Phase Model, Pipelines, Dense Particle Flow, Numerical Simulation	21, 1, 89-100	10.2507/IJSIMM21-1-592	Fu S., Guo X. Y., Dong L. H., Sheng K., Sun A. (2022). Numerical Simulation of Migration Laws of Dense Particle Flow in Pipelines. *Int. Journal of Simulation Modelling*, Vol. 21, No. 1, p. 89-100
54	Tanasic, Z.; Janjic, G.; Sokovic, M. & Kusar, J.	Implementation of the Lean Concept and Simulations in SMEs – a Case Study	Lean Concept, Lean Methods and Tools, SMEs, VSM, Simulation, Wastes of Assembly Line	21, 1, 77-88	10.2507/IJSIMM21-1-589	Tanasic Z., Janjic G., Sokovic M., Kusar J. (2022). Implementation of the Lean Concept and Simulations in SMEs – a Case Study. *Int. Journal of Simulation Modelling*, Vol. 21, No. 1, p. 77-88
55	Wang, T.; Zhang, X.; Zeng, Q. L.; Jiang, S. B. & Zhang, Y. N.	Modelling and Simulation on Cavity Cold Plate for Li-Ion Battery Thermal Management	Cold Plate Modelling, Thermal Simulation, Battery Thermal Management, CFD	21, 1, 65-76	10.2507/IJSIMM21-1-588	Wang T., Zhang X., Zeng Q. L., Jiang S. B., Zhang Y. N. (2022). Modelling and Simulation on Cavity Cold Plate for Li-Ion Battery Thermal Management. *Int. Journal of Simulation Modelling*, Vol. 21, No. 1, p. 65-76
56	Kara, S.; Hizal, S. & Zengin, A.	Design and Implementation of a DEVS-Based Cyber-Attack Simulator for Cyber Security	Modelling and Simulation, Discrete Event Simulation, Cyber Security, Cyber-Attack Experiments, Network Testing Environments	21, 1, 53-64	10.2507/IJSIMM21-1-587	Kara S., Hizal S., Zengin A. (2022). Design and Implementation of a DEVS-Based Cyber-Attack Simulator for Cyber Security. *Int. Journal of Simulation Modelling*, Vol. 21, No. 1, p. 53-64
57	Stefek, A.; Casar, J.; Stary, V. & Gacho, L.	Coupling of ODE and DES Models for Simulation of Air Defence in War-Gaming Experiment	Modelling and Simulation, Flight Route, War-Gaming, Optimal Track, Air Defence, Command and Control	21, 1, 41-52	10.2507/IJSIMM21-1-586	Stefek A., Casar J., Stary V., Gacho L. (2022). Coupling of ODE and DES Models for Simulation of Air Defence in War-Gaming Experiment. *Int. Journal of Simulation Modelling*, Vol. 21, No. 1, p. 41-52

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58	Lindegren, M. L.; Lunau, M. R.; Mafia, M. M. P. & Ribeiro da Silva, E.	Combining Simulation and Data Analytics for OEE Improvement	Discrete Event Simulation, Data Analytics, OEE, Improvement, Industry 4.0	21, 1, 29-40	10.2507/IJSIMM21-1-584	Lindegren M. L., Lunau M. R., Mafia M. M. P., Ribeiro da Silva E. (2022). Combining Simulation and Data Analytics for OEE Improvement. *Int. Journal of Simulation Modelling*, Vol. 21, No. 1, p. 29-40
59	Cam, S.; Oguztuzun, H. & Yilmaz, L.	Hypothesis-Driven Simulation Experiments with an Extension to SED-ML	Design of Experiments, Simulation Experiment Description Markup Language, Global Model Management, Signal Temporal Logic	21, 1, 17-28	10.2507/IJSIMM21-1-583	Cam S., Oguztuzun H., Yilmaz L. (2022). Hypothesis-Driven Simulation Experiments with an Extension to SED-ML. *Int. Journal of Simulation Modelling*, Vol. 21, No. 1, p. 17-28
60	Jemmali, M.; Hidri, L. & Alourani, A.	Two-Stage Hybrid Flowshop Scheduling Problem with Independent Setup Times	Two-Stage Hybrid Flowshop, Independent Setup Times, Genetic Algorithm, Heuristics, Lower Bounds	21, 1, 5-16	10.2507/IJSIMM21-1-577	Jemmali M., Hidri L., Alourani A. (2022). Two-Stage Hybrid Flowshop Scheduling Problem with Independent Setup Times. *Int. Journal of Simulation Modelling*, Vol. 21, No. 1, p. 5-16
1	Meng, J. L.	Demand Prediction and Allocation Optimization of Manufacturing Resources	Intelligent Manufacturing, Allocation Optimization, Demand Prediction, Production and Manufacturing (P-M) Resources	20, 4, 790-801	10.2507/IJSIMM20-4-CO20	Meng J. L. (2021). Demand Prediction and Allocation Optimization of Manufacturing Resources. *Int. Journal of Simulation Modelling*, Vol. 20, No. 4, p. 790-801
2	Wang, M.	Manufacturing Capacity Evaluation of Smart Job-Shop Based on Neural Network	Smart Job-Shop, Manufacturing Capacity, Backpropagation Neural Network (BPNN), Firefly Algorithm, Sparrow Search Algorithm (SSA)	20, 4, 778-789	10.2507/IJSIMM20-4-CO19	Wang M. (2021). Manufacturing Capacity Evaluation of Smart Job-Shop Based on Neural Network. *Int. Journal of Simulation Modelling*, Vol. 20, No. 4, p. 778-789
3	Meng, Z. S.; Zhang, J. M.; Xie, Y. Y.; Lu, Z. G. & Zeng, Q. L.	Analysis of the Force Response of a Double-Canopy Hydraulic Support under Impact Loads	Hydraulic Support, Impact Load, Force Response, Double-Canopy	20, 4, 766-777	10.2507/IJSIMM20-4-CO18	Meng Z. S., Zhang J. M., Xie Y. Y., Lu Z. G., Zeng Q. L. (2021). Analysis of the Force Response of a Double-Canopy Hydraulic Support under Impact Loads. *Int. Journal of Simulation Modelling*, Vol. 20, No. 4, p. 766-777
4	Liu, J.-Y.; Liu, S.-F. & Gong, D.-Q.	Electric Vehicle Charging Station Layout Based on Particle Swarm Simulation	Electric Car, Charging Station Layout, Simulation, PSO	20, 4, 754-765	10.2507/IJSIMM20-4-CO17	Liu J.-Y., Liu S.-F., Gong D.-Q. (2021). Electric Vehicle Charging Station Layout Based on Particle Swarm Simulation. *Int. Journal of Simulation Modelling*, Vol. 20, No. 4, p. 754-765
5	Ouyang, K. M. & Liu, S. F.	A Simulation Method for Rail Transit Sign Optimization	Urban Rail Transit, Guidance Sign, Layout Optimization, Simulation	20, 4, 742-753	10.2507/IJSIMM20-4-CO16	Ouyang K. M., Liu S. F. (2021). A Simulation Method for Rail Transit Sign Optimization. *Int. Journal of Simulation Modelling*, Vol. 20, No. 4, p. 742-753
6	Huang, J. H.; Sun, M. G. & Cheng, Q.	Congestion Risk Propagation Model Based on Multi-Layer Time-Varying Network	Urban Traffic, Congestion Propagation Analysis, Microscopic Markov Chain, Traffic Information, Group Behavioural Characteristics of Drivers	20, 4, 730-741	10.2507/IJSIMM20-4-585	Huang J. H., Sun M. G., Cheng Q. (2021). Congestion Risk Propagation Model Based on Multi-Layer Time-Varying Network. *Int. Journal of Simulation Modelling*, Vol. 20, No. 4, p. 730-741
7	Gajsek, B.; Dukic, G.; Kovacic, M. & Brezocnik, M.	A Multi-Objective Genetic Algorithms Approach for Modelling of Order Picking	Order Picking, Productivity, Energy Expenditure, Health Risk, Modelling and Optimization, Genetic Algorithm	20, 4, 719-729	10.2507/IJSIMM20-4-582	Gajsek B., Dukic G., Kovacic M., Brezocnik M. (2021). A Multi-Objective Genetic Algorithms Approach for Modelling of Order Picking. *Int. Journal of Simulation Modelling*, Vol. 20, No. 4, p. 719-729
8	Ma, X. Y.; Lin, Y. & Ma, Q. W.	Data-Driven Robust Model for Container Slot Allocation with Uncertain Demand	Copula Method, Data-Driven, Robust Optimization, Container Slot Allocation	20, 4, 707-718	10.2507/IJSIMM20-4-581	Ma X. Y., Lin Y., Ma Q. W. (2021). Data-Driven Robust Model for Container Slot Allocation with Uncertain Demand. *Int. Journal of Simulation Modelling*, Vol. 20, No. 4, p. 707-718
9	Ray, T.; Kaljun, J. & Dolsak, B.	Numerical Model Application to Predict the Sound Quality of an Instrument	Numerical Analysis, Simulation, Electric Guitar, Wooden Solid Body, Vibroacoustic Properties	20, 4, 696-706	10.2507/IJSIMM20-4-580	Ray T., Kaljun J., Dolsak B. (2021). Numerical Model Application to Predict the Sound Quality of an Instrument. *Int. Journal of Simulation Modelling*, Vol. 20, No. 4, p. 696-706
10	Shi, H. X.; Meng, J. & Li, Y.	Numerical Simulation of Coarse Particle Two-Phase Flow in Two-Stage Vortex Pump	Vortex Pump, Two-Phase Flow, Particle Diameter, Particle Concentration	20, 4, 684-695	10.2507/IJSIMM20-4-579	Shi H. X., Meng J., Li Y. (2021). Numerical Simulation of Coarse Particle Two-Phase Flow in Two-Stage Vortex Pump. *Int. Journal of Simulation Modelling*, Vol. 20, No. 4, p. 684-695
11	Ojstersek, R. & Buchmeister, B.	Simulation Based Resource Capacity Planning with Constraints	Simulation Modelling, Mathematical Modelling, Resource Capacity Planning, Constraints Theory, Decision-Making Algorithm	20, 4, 672-683	10.2507/IJSIMM20-4-578	Ojstersek R., Buchmeister B. (2021). Simulation Based Resource Capacity Planning with Constraints. *Int. Journal of Simulation Modelling*, Vol. 20, No. 4, p. 672-683
12	Kim, B. S.; Kim, T. G. & Choi, S. H.	CoDEVS: an Extension of DEVS for Integration of Simulation and Machine Learning	DEVS Formalism, Cooperative DEVS (CoDEVS), Machine Learning, Data Modelling, Simulation Modelling	20, 4, 661-671	10.2507/IJSIMM20-4-576	Kim B. S., Kim T. G., Choi S. H. (2021). CoDEVS: an Extension of DEVS for Integration of Simulation and Machine Learning. *Int. Journal of Simulation Modelling*, Vol. 20, No. 4, p. 661-671
13	Kallakuri, R. & Bahuguna, P. C.	Role of Operator Training Simulators in Hydrocarbon Industry – a Review	Operator Training Simulator, Simulator Configuration, Human Error, Training Transfer	20, 4, 649-660	10.2507/IJSIMM20-4-575	Kallakuri R., Bahuguna P. C. (2021). Role of Operator Training Simulators in Hydrocarbon Industry – a Review. *Int. Journal of Simulation Modelling*, Vol. 20, No. 4, p. 649-660
14	Masovic, R.; Breski, T.; Cular, I.; Vuckovic, K. & Zezelj, D.	Numerical Model for Worm Gear Pair Inspection Based on 3D Scanned Data	Gear Inspection, Worm Gear Pair, Worm Wheel, Transmission Error, 3D Optical Scan, Contact Pattern	20, 4, 637-648	10.2507/IJSIMM20-4-573	Masovic R., Breski T., Cular I., Vuckovic K., Zezelj D. (2021). Numerical Model for Worm Gear Pair Inspection Based on 3D Scanned Data. *Int. Journal of Simulation Modelling*, Vol. 20, No. 4, p. 637-648
15	Filaretov, V. F.; Konoplin, A. Y.; Zuev, A. V. & Krasavin, N. A.	A Method to Synthesize High-Precision Motion Control Systems for Underwater Manipulator	Underwater Multi-Joint Manipulator, Underwater Vehicle, Identification, High-Precision, Observer	20, 4, 625-636	10.2507/IJSIMM20-4-571	Filaretov V. F., Konoplin A. Y., Zuev A. V., Krasavin N. A. (2021). A Method to Synthesize High-Precision Motion Control Systems for Underwater Manipulator. *Int. Journal of Simulation Modelling*, Vol. 20, No. 4, p. 625-636
16	Wang, N.; Li, X. J. & Nie, H.	Digital Production Control of Manufacturing Workshop Based on Internet of Things	Internet of Things (IoT), Digital Production, Production Control, Manufacturing Workshop	20, 3, 606-617	10.2507/IJSIMM20-3-CO15	Wang N., Li X. J., Nie H. (2021). Digital Production Control of Manufacturing Workshop Based on Internet of Things. *Int. Journal of Simulation Modelling*, Vol. 20, No. 3, p. 606-617

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17	Dai, Y.; Zhang, Y. Y.; Bian, J. N.; Han, K.; Zhu, X.; Huang, Z. H. & Xie, Y.	CFD Simulation on Hydrodynamics of Underwater Vehicle with Ducted Propellers	Underwater Vehicle, Ducted Propeller, Hydrodynamics Characteristics, CFD Simulation, Test Verification	20, 3, 595-605	10.2507/IJSIMM20-3-CO14	Dai Y., Zhang Y. Y., Bian J. N., Han K., Zhu X., Huang Z. H., Xie Y. (2021). CFD Simulation on Hydrodynamics of Underwater Vehicle with Ducted Propellers. *Int. Journal of Simulation Modelling*, Vol. 20, No. 3, p. 595-605
18	Li, W.; Miao, L. & Yang, P.	Simulation Analysis of Robotic Mobile Fulfilment System Based on Cellular Automata	Robotic Mobile Fulfilment System (RMFS), Warehouse Performance, Cellular Automaton Model, Simulation	20, 3, 583-594	10.2507/IJSIMM20-3-CO13	Li W., Miao L., Yang P. (2021). Simulation Analysis of Robotic Mobile Fulfilment System Based on Cellular Automata. *Int. Journal of Simulation Modelling*, Vol. 20, No. 3, p. 583-594
19	Chen, D. & Zhao, X. R.	Production Management of Hybrid Flow Shop Based on Genetic Algorithm	Genetic Algorithm (GA), Hybrid Flow Shop (HFS), Production Management	20, 3, 571-582	10.2507/IJSIMM20-3-CO12	Chen D., Zhao X. R. (2021). Production Management of Hybrid Flow Shop Based on Genetic Algorithm. *Int. Journal of Simulation Modelling*, Vol. 20, No. 3, p. 571-582
20	Qian, S.; Bai, Z. H.; Hu, W. T.; Lin, W.; Wang, T. L. & Zhang, J. S.	Design and Key Process Simulation of a New Type of Pipe Bending Unit	New-Type Pipe Bending Unit, Finite Element Model, Clearance, Surface Friction, Push-Bending Speed	20, 3, 559-570	10.2507/IJSIMM20-3-574	Qian S., Bai Z. H., Hu W. T., Lin W., Wang T. L., Zhang J. S. (2021). Design and Key Process Simulation of a New Type of Pipe Bending Unit. *Int. Journal of Simulation Modelling*, Vol. 20, No. 3, p. 559-570
21	Wang, D. L.; Zeng, X. T.; Wang, G. F. & Li, R.	Stability of a Face Guard in a Large Mining Height Working Face	Coal Wall Spalling, Hydraulic Support, Face Guard Mechanism, Coupling Relationship	20, 3, 547-558	10.2507/IJSIMM20-3-572	Wang D. L., Zeng X. T., Wang G. F., Li R. (2021). Stability of a Face Guard in a Large Mining Height Working Face. *Int. Journal of Simulation Modelling*, Vol. 20, No. 3, p. 547-558
22	Strachotova, D. & Dyntar, J.	Support of Scheduling of Multiproduct Pipeline Systems Using Simulation in Witness	Logistics, Scheduling, Pipeline System, Discrete-Event Simulation, Witness	20, 3, 536-546	10.2507/IJSIMM20-3-570	Strachotova D., Dyntar J. (2021). Support of Scheduling of Multiproduct Pipeline Systems Using Simulation in Witness. *Int. Journal of Simulation Modelling*, Vol. 20, No. 3, p. 536-546
23	Chen, F. Y.; Cheng, L.; Wang, C.; Gao, Z. & Luo, C.	Influence of the Inclined Pipe Section on the Performance of a Waterjet Propulsion Device	Waterjet Propulsion Device, Length of Inlet Passage, Rotational Speed, Hydrodynamic	20, 3, 525-535	10.2507/IJSIMM20-3-569	Chen F. Y., Cheng L., Wang C., Gao Z., Luo C. (2021). Influence of the Inclined Pipe Section on the Performance of a Waterjet Propulsion Device. *Int. Journal of Simulation Modelling*, Vol. 20, No. 3, p. 525-535
24	Ambrozkiewicz, B.; Litak, G.; Georgiadis, A.; Syta, A.; Meier, N. & Gassner, A.	Effect of Radial Clearance on Ball Bearing's Dynamics Using a 2-DOF Model	Ball Bearings, Radial Internal Clearance, Nonlinear Dynamics, Recurrence Plots, Recurrence Quantification Analysis	20, 3, 513-524	10.2507/IJSIMM20-3-568	Ambrozkiewicz B., Litak G., Georgiadis A., Syta A., Meier N., Gassner A. (2021). Effect of Radial Clearance on Ball Bearing's Dynamics Using a 2-DOF Model. *Int. Journal of Simulation Modelling*, Vol. 20, No. 3, p. 513-524
25	Straka, M.; Spirkova, D. & Filla, M.	Improved Efficiency of Manufacturing Logistics by Using Computer Simulation	Efficiency, Logistics, Simulation, Design, ExtendSim, System	20, 3, 501-512	10.2507/IJSIMM20-3-567	Straka M., Spirkova D., Filla M. (2021). Improved Efficiency of Manufacturing Logistics by Using Computer Simulation. *Int. Journal of Simulation Modelling*, Vol. 20, No. 3, p. 501-512
26	Kilic, R. & Erkayman, B.	A Simulation Approach for Transition to JIT Production System	Discrete Event Simulation (DES), Just-in-Time (JIT), Lean Manufacturing, Production Line Efficiency, Solar Panel Production	20, 3, 489-500	10.2507/IJSIMM20-3-566	Kilic R., Erkayman B. (2021). A Simulation Approach for Transition to JIT Production System. *Int. Journal of Simulation Modelling*, Vol. 20, No. 3, p. 489-500
27	Choi, S. H. & Kim, B. S.	A Robust Method for Identifying the Best and Worst Subsets in Stochastic Simulation	Stochastic Simulation, Simulation Experiments, Best and Worst Subsets, Simulation Budget Allocation, Robustness	20, 3, 477-488	10.2507/IJSIMM20-3-565	Choi S. H., Kim B. S. (2021). A Robust Method for Identifying the Best and Worst Subsets in Stochastic Simulation. *Int. Journal of Simulation Modelling*, Vol. 20, No. 3, p. 477-488
28	Deniz, E.; Tuncel, G.; Yalcinkaya, O. & Esmer, S.	Simulation of Multi-Crane Single and Dual Cycling Strategies in a Container Terminal	Terminal Operations, Quay Crane, Dual Cycling, Simulation	20, 3, 465-476	10.2507/IJSIMM20-3-559	Deniz E., Tuncel G., Yalcinkaya O., Esmer S. (2021). Simulation of Multi-Crane Single and Dual Cycling Strategies in a Container Terminal. *Int. Journal of Simulation Modelling*, Vol. 20, No. 3, p. 465-476
29	Lu, Q. & Tettamanti, T.	Impacts of Connected and Automated Vehicles on Freeway with Increased Speed Limit	CAV Penetration, Time Headway, Speed Limit, Freeway Capacity, Fuel Consumption, Emission	20, 3, 453-464	10.2507/IJSIMM20-3-556	Lu Q., Tettamanti T. (2021). Impacts of Connected and Automated Vehicles on Freeway with Increased Speed Limit. *Int. Journal of Simulation Modelling*, Vol. 20, No. 3, p. 453-464
30	Grznar, P.; Gregor, M.; Gaso, M.; Gabajova, G.; Schickerle, M. & Burganova, N.	Dynamic Simulation Tool for Planning and Optimisation of Supply Process	Modelling and Simulation, Optimisation of the Supply Process, Automated Guided Vehicle, Automotive Industry	20, 3, 441-452	10.2507/IJSIMM20-3-552	Grznar P., Gregor M., Gaso M., Gabajova G., Schickerle M., Burganova N. (2021). Dynamic Simulation Tool for Planning and Optimisation of Supply Process. *Int. Journal of Simulation Modelling*, Vol. 20, No. 3, p. 441-452
31	Mao, C. L.	Production Management of Multi-Objective Flexible Job-Shop Based on Improved PSO	Multi-Objective Flexible Job-Shop Production Management, Improved Particle Swarm Optimization (PSO), Dynamic Response	20, 2, 422-433	10.2507/IJSIMM20-2-CO11	Mao C. L. (2021). Production Management of Multi-Objective Flexible Job-Shop Based on Improved PSO. *Int. Journal of Simulation Modelling*, Vol. 20, No. 2, p. 422-433
32	Zhao, Y. & Zhang, H.	Application of Machine Learning and Rule Scheduling in a Job-Shop Production Control System	Deep Reinforcement Learning, Rule Scheduling, Job-Shop, Production Control	20, 2, 410-421	10.2507/IJSIMM20-2-CO10	Zhao Y., Zhang H. (2021). Application of Machine Learning and Rule Scheduling in a Job-Shop Production Control System. *Int. Journal of Simulation Modelling*, Vol. 20, No. 2, p. 410-421
33	Wang, X. L.	Game-Based Hybrid Particle Swarm Optimization of Job-Shop Production Control	Game-Based Hybrid Particle Swarm Optimization (GBHPSO), Production Control, Product Utility	20, 2, 398-409	10.2507/IJSIMM20-2-CO9	Wang X. L. (2021). Game-Based Hybrid Particle Swarm Optimization of Job-Shop Production Control. *Int. Journal of Simulation Modelling*, Vol. 20, No. 2, p. 398-409
34	Wang, F.	Multi-Scenario Simulation of Subway Emergency Evacuation Based on Multi-Agent	Multi-Agent, Subway Emergency Evacuation, Simulation	20, 2, 387-397	10.2507/IJSIMM20-2-CO8	Wang F. (2021). Multi-Scenario Simulation of Subway Emergency Evacuation Based on Multi-Agent. *Int. Journal of Simulation Modelling*, Vol. 20, No. 2, p. 387-397
35	Han, B. A. & Yang, J. J.	A Deep Reinforcement Learning Based Solution for Flexible Job Shop Scheduling Problem	Flexible Job Shop Scheduling Problem (FJSP), Deep Reinforcement Learning (DRL), End-to-End, Pointer Network, Attention Mechanism, 3D Disjunctive Graph	20, 2, 375-386	10.2507/IJSIMM20-2-CO7	Han B. A., Yang J. J. (2021). A Deep Reinforcement Learning Based Solution for Flexible Job Shop Scheduling Problem. *Int. Journal of Simulation Modelling*, Vol. 20, No. 2, p. 375-386

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36	Yin, M.; Xu, L. J.; Dai, Y.; Yang, D. & Zhu, X.	Flow Characteristics of Oil-Guiding Splash Lubrication: Simulation and Experiment Studies	Splash Lubrication, Computational Fluid Dynamics, Forced Vortex, Main Reducer, Oil-Guiding Cylinder	20, 2, 363-374	10.2507/IJSIMM20-2-CO6	Yin M., Xu L. J., Dai Y., Yang D., Zhu X. (2021). Flow Characteristics of Oil-Guiding Splash Lubrication: Simulation and Experiment Studies. *Int. Journal of Simulation Modelling*, Vol. 20, No. 2, p. 363-374
37	Liu, M. L.; Zhang, C.; Wu, Q. L. & Meng, B. R.	Vehicle Routing Problem with Soft Time Windows of Cargo Transport O2O Platforms	Cargo Transport O2O, Vehicle Routing Problem, Soft Time Window, Improved Genetic Algorithm	20, 2, 351-362	10.2507/IJSIMM20-2-564	Liu M. L., Zhang C., Wu Q. L., Meng B. R. (2021). Vehicle Routing Problem with Soft Time Windows of Cargo Transport O2O Platforms. *Int. Journal of Simulation Modelling*, Vol. 20, No. 2, p. 351-362
38	Lipus, L. C.; Budzyn, G. & Acko, B.	Analysis of Laser Interferometer Measurement Uncertainty by Simulating Error Sources	Laser Interferometry, Measurement Uncertainty, Simulation, Calibration	20, 2, 339-350	10.2507/IJSIMM20-2-563	Lipus L. C., Budzyn G., Acko B. (2021). Analysis of Laser Interferometer Measurement Uncertainty by Simulating Error Sources. *Int. Journal of Simulation Modelling*, Vol. 20, No. 2, p. 339-350
39	Xi, W. & Lu, W. G.	Formation Mechanism of an Adherent Vortex in the Side Pump Sump of a Pumping Station	Pump Station Engineering, Side Pump Sump, Adherent Vortex	20, 2, 327-338	10.2507/IJSIMM20-2-562	Xi W., Lu W. G. (2021). Formation Mechanism of an Adherent Vortex in the Side Pump Sump of a Pumping Station. *Int. Journal of Simulation Modelling*, Vol. 20, No. 2, p. 327-338
40	Calvo Hernandez, A.; Sanz Bobi, J. de D.; Gomez Fernandez, J. & Badolato Martin, A.	Vibration Reduction on Overhead Contact Rails: a Simulation-Optimization Approach	Pantograph-Catenary Interaction, Overhead Contact Rail, Vibration	20, 2, 315-326	10.2507/IJSIMM20-2-561	Calvo Hernandez A., Sanz Bobi J. de D., Gomez Fernandez J., Badolato Martin A. (2021). Vibration Reduction on Overhead Contact Rails: a Simulation-Optimization Approach. *Int. Journal of Simulation Modelling*, Vol. 20, No. 2, p. 315-326
41	Curkovic, P. & Cubric, G.	Fused Deposition Modelling for 3D Printing of Soft Anthropomorphic Actuators	Soft Robots, Modelling, Analysis, Fused Deposition Modelling, Anthropomorphic Actuator	20, 2, 303-314	10.2507/IJSIMM20-2-560	Curkovic P., Cubric G. (2021). Fused Deposition Modelling for 3D Printing of Soft Anthropomorphic Actuators. *Int. Journal of Simulation Modelling*, Vol. 20, No. 2, p. 303-314
42	Wang, S. R.; Zhao, J. Q.; Wu, X. G.; Yang, J. H. & Liu, A.	Meso-Scale Simulations of Lightweight Aggregate Concrete under Impact Loading	Lightweight Aggregate Concrete, Strain Rate, Energy Dissipation, Simulation, Damage	20, 2, 291-302	10.2507/IJSIMM20-2-558	Wang S. R., Zhao J. Q., Wu X. G., Yang J. H., Liu A. (2021). Meso-Scale Simulations of Lightweight Aggregate Concrete under Impact Loading. *Int. Journal of Simulation Modelling*, Vol. 20, No. 2, p. 291-302
43	Janekova, J.; Fabianova, J. & Kadarova, J.	Selection of Optimal Investment Variant Based on Monte Carlo Simulations	Investment, Decision-Making, Monte Carlo Simulation, Risk Assessment	20, 2, 279-290	10.2507/IJSIMM20-2-557	Janekova J., Fabianova J., Kadarova J. (2021). Selection of Optimal Investment Variant Based on Monte Carlo Simulations. *Int. Journal of Simulation Modelling*, Vol. 20, No. 2, p. 279-290
44	Sampayo, D.; Luque, P.; Mantaras, D. A. & Rodriguez, E.	Go-Kart Chassis Design Using Finite Element Analysis and Multibody Dynamic Simulation	Go-Kart, Finite Element Analysis, Multibody Dynamics	20, 2, 267-278	10.2507/IJSIMM20-2-555	Sampayo D., Luque P., Mantaras D. A., Rodriguez E. (2021). Go-Kart Chassis Design Using Finite Element Analysis and Multibody Dynamic Simulation. *Int. Journal of Simulation Modelling*, Vol. 20, No. 2, p. 267-278
45	Gudelj, M.; Delic, M.; Kuzmanovic, B.; Tesic, Z. & Tasic, N.	Business Process Management Model as an Approach to Process Orientation	Business Process Management, Process Orientation, Operational Management, Model	20, 2, 255-266	10.2507/IJSIMM20-2-554	Gudelj M., Delic M., Kuzmanovic B., Tesic Z., Tasic N. (2021). Business Process Management Model as an Approach to Process Orientation. *Int. Journal of Simulation Modelling*, Vol. 20, No. 2, p. 255-266
46	Paszkowiak, W.; Bartkowiak, T. & Pelic, M.	Kinematic Model of a Logistic Train with a Double Ackermann Steering System	Logistic Train, Milk-Run, Kinematic Model, Double Ackermann, Tractor-Trailer System, Trajectory Control	20, 2, 243-254	10.2507/IJSIMM20-2-550	Paszkowiak W., Bartkowiak T., Pelic M. (2021). Kinematic Model of a Logistic Train with a Double Ackermann Steering System. *Int. Journal of Simulation Modelling*, Vol. 20, No. 2, p. 243-254
47	Sotelo, C.; Favela-Contreras, A.; Ramirez-Mendoza, R. A.; Beltran-Carbajal, F.; Cruz, E. & Sotelo, D.	Rigorous Dynamic Simulation of a Dehydration and Desalting Crude Oil Unit Using Aspen HYSYS®	Dehydration Unit, Desalting Unit, Modelling, Simulation, Aspen HYSYS®	20, 2, 231-242	10.2507/IJSIMM20-2-546	Sotelo C., Favela-Contreras A., Ramirez-Mendoza R. A., Beltran-Carbajal F., Cruz E., Sotelo D. (2021). Rigorous Dynamic Simulation of a Dehydration and Desalting Crude Oil Unit Using Aspen HYSYS®. *Int. Journal of Simulation Modelling*, Vol. 20, No. 2, p. 231-242
48	Khan, M. A. A. & Sheikh, A. K.	Simulation-Based Mould Design, Life Prediction and Reliability Assessment of a Valve Body	Metal Casting, Mould Design, Simulation, Fatigue Life, Reliability, Optimization	20, 2, 219-230	10.2507/IJSIMM20-2-543	Khan M. A. A., Sheikh A. K. (2021). Simulation-Based Mould Design, Life Prediction and Reliability Assessment of a Valve Body. *Int. Journal of Simulation Modelling*, Vol. 20, No. 2, p. 219-230
49	Wei, F. F.; Cao, C. Y. & Zhang, H. P.	An Improved Genetic Algorithm for Resource-Constrained Flexible Job-Shop Scheduling	Multi-Objective Genetic Algorithm (MOGA), Resource Constraints, Flexible Job-Shop	20, 1, 201-211	10.2507/IJSIMM20-1-CO5	Wei F. F., Cao C. Y., Zhang H. P. (2021). An Improved Genetic Algorithm for Resource-Constrained Flexible Job-Shop Scheduling. *Int. Journal of Simulation Modelling*, Vol. 20, No. 1, p. 201-211
50	Wu, P. J. & Yang, D.	E-Commerce Workshop Scheduling Based on Deep Learning and Genetic Algorithm	Workshop Scheduling, Genetic Algorithm (GA), Deep Learning Neural Network (DLNN), E-Commerce, Long Short-Term Memory Network (LSTM)	20, 1, 192-200	10.2507/IJSIMM20-1-CO4	Wu P. J., Yang D. (2021). E-Commerce Workshop Scheduling Based on Deep Learning and Genetic Algorithm. *Int. Journal of Simulation Modelling*, Vol. 20, No. 1, p. 192-200
51	Wan, Y. M.	Amos-Based Risk Forecast of Manufacturing Supply Chain	Manufacturing Supply Chain, Risk Forecast, Modelling, Amos, Artificial Neural Network (ANN)	20, 1, 181-191	10.2507/IJSIMM20-1-CO3	Wan Y. M. (2021). Amos-Based Risk Forecast of Manufacturing Supply Chain. *Int. Journal of Simulation Modelling*, Vol. 20, No. 1, p. 181-191
52	Wang, Y.; Yang, H. Y.; Chen, G. & Jia, Y. J.	Influence of Fit Clearance on the Stability of “Three Oil Film-Rotor” Structure	“Three Oil Film-Rotor” Structure, Fit Clearance, Oil Film Pressure, Oil Film Thickness, Axis Orbit	20, 1, 170-180	10.2507/IJSIMM20-1-CO2	Wang Y., Yang H. Y., Chen G., Jia Y. J. (2021). Influence of Fit Clearance on the Stability of “Three Oil Film-Rotor” Structure. *Int. Journal of Simulation Modelling*, Vol. 20, No. 1, p. 170-180
53	Huo, H.; Wang, H. B. & Zhang, D. D.	Production Management and Control Based on Ant Colony Optimization and Neural Network	Ant Colony Optimization (ACO), Neural Network (NN), Discrete Manufacturing, Job-Shop Production Management and Control	20, 1, 158-169	10.2507/IJSIMM20-1-CO1	Huo H., Wang H. B., Zhang D. D. (2021). Production Management and Control Based on Ant Colony Optimization and Neural Network. *Int. Journal of Simulation Modelling*, Vol. 20, No. 1, p. 158-169
54	Vukelic, D.; Kanovic, Z.; Sokac, M.; Santosi, Z.; Budak, I. & Tadic, B.	Modelling of Micro-Turning Process Based on Constant Cutting Force	Micro-Turning, Constant Cutting Force, Artificial Neural Network, Cutting Quality	20, 1, 146-157	10.2507/IJSIMM20-1-553	Vukelic D., Kanovic Z., Sokac M., Santosi Z., Budak I., Tadic B. (2021). Modelling of Micro-Turning Process Based on Constant Cutting Force. *Int. Journal of Simulation Modelling*, Vol. 20, No. 1, p. 146-157

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55	Pekarcikova, M.; Trebuna, P.; Kliment, M.; Mizerak, M. & Kral, S.	Simulation Testing of the E-Kanban to Increase the Efficiency of Logistics Processes	Logistics, Lean Tools, Simulation, E-Kanban	20, 1, 134-145	10.2507/IJSIMM20-1-551	Pekarcikova M., Trebuna P., Kliment M., Mizerak M., Kral S. (2021). Simulation Testing of the E-Kanban to Increase the Efficiency of Logistics Processes. *Int. Journal of Simulation Modelling*, Vol. 20, No. 1, p. 134-145
56	Glamsch, J.; Rosnitschek, T. & Rieg, F.	Initial Population Influence on Hypervolume Convergence of NSGA-III	Evolutionary Algorithm, Multi-Objective Optimization, NSGA-III, Sampling, Initial Population	20, 1, 123-133	10.2507/IJSIMM20-1-549	Glamsch J., Rosnitschek T., Rieg F. (2021). Initial Population Influence on Hypervolume Convergence of NSGA-III. *Int. Journal of Simulation Modelling*, Vol. 20, No. 1, p. 123-133
57	Sun, L. Q.; Jiang, K.; Zeng, Q. L.; Gao, K. D. & Zhang, X. D.	Influence of Drum Cutting Height on Shearer Cutting Unit Vibration by Co-Simulation Method	Shearer, Cutting Department, Vibration Analysis, Hydromechatronical Co-Simulation Method, Coal Cutting	20, 1, 111-122	10.2507/IJSIMM20-1-548	Sun L. Q., Jiang K., Zeng Q. L., Gao K. D., Zhang X. D. (2021). Influence of Drum Cutting Height on Shearer Cutting Unit Vibration by Co-Simulation Method. *Int. Journal of Simulation Modelling*, Vol. 20, No. 1, p. 111-122
58	Sutak, D.; Hatala, M.; Mital, D.; Duplakova, D. & Botko, F.	Comprehensive Analysis of Cold Formed Tube in Drawing Process Using Simulation	Deform-3D, Mandrel, Cold Formed Tube, Drawing Process	20, 1, 99-110	10.2507/IJSIMM20-1-547	Sutak D., Hatala M., Mital D., Duplakova D., Botko F. (2021). Comprehensive Analysis of Cold Formed Tube in Drawing Process Using Simulation. *Int. Journal of Simulation Modelling*, Vol. 20, No. 1, p. 99-110
59	Yu, J. P.; Zou, D. Y.; Liu, X. A. & Zhang, Y.	Simulation and Experimental Study on Hybrid Bit with Different Cutters	PDC, DIB, Rate of Penetration, Experiment, Simulation	20, 1, 87-98	10.2507/IJSIMM20-1-545	Yu J. P., Zou D. Y., Liu X. A., Zhang Y. (2021). Simulation and Experimental Study on Hybrid Bit with Different Cutters. *Int. Journal of Simulation Modelling*, Vol. 20, No. 1, p. 87-98
60	Wang, H. L.; Hu, Q. X.; Yang, Y. & Wang, C.	Performance Differences of Electrical Submersible Pump under Variable Speed Schemes	Electrical Submersible Pump, Variable Speed Regulation, Transient Calculation, Numerical Simulation	20, 1, 76-86	10.2507/IJSIMM20-1-544	Wang H. L., Hu Q. X., Yang Y., Wang C. (2021). Performance Differences of Electrical Submersible Pump under Variable Speed Schemes. *Int. Journal of Simulation Modelling*, Vol. 20, No. 1, p. 76-86
61	Berlec, T.; Tansek, B. & Kusar, J.	Selection of the Most Suitable Material Handling System in Production	Production, Material Handling Systems, Simulation, Optimisation, Cost-Benefit Analysis	20, 1, 64-75	10.2507/IJSIMM20-1-542	Berlec T., Tansek B., Kusar J. (2021). Selection of the Most Suitable Material Handling System in Production. *Int. Journal of Simulation Modelling*, Vol. 20, No. 1, p. 64-75
62	Tic, V.; Rotovnik, A. & Lovrec, D.	Impact of Proportional Valves' Differences to Ensure Uniform Motion of Hydraulic Motors	Uniform Motion, Hydraulic Motor, Proportional Valve, Simulation	20, 1, 52-63	10.2507/IJSIMM20-1-540	Tic V., Rotovnik A., Lovrec D. (2021). Impact of Proportional Valves' Differences to Ensure Uniform Motion of Hydraulic Motors. *Int. Journal of Simulation Modelling*, Vol. 20, No. 1, p. 52-63
63	Lamprecht, M. & Leonhartsberger, M.	Tool Stiffness Calculation in Roll Forming	Roll Forming, Tool Deflection, Stiffness, Deflection Behaviour, Finite Element Method (FEM)	20, 1, 40-51	10.2507/IJSIMM20-1-539	Lamprecht M., Leonhartsberger M. (2021). Tool Stiffness Calculation in Roll Forming. *Int. Journal of Simulation Modelling*, Vol. 20, No. 1, p. 40-51
64	Cano, J. A.; Gomez-Montoya, R. A.; Cortes, P. & Campo, E. A.	MRP Systems Considering Fuzzy Capacity, Lead Times and Inventory Availability	MRP, Fuzzy Logic, Lead Time, Inventory, Production Capacity	20, 1, 29-39	10.2507/IJSIMM20-1-538	Cano J. A., Gomez-Montoya R. A., Cortes P., Campo E. A. (2021). MRP Systems Considering Fuzzy Capacity, Lead Times and Inventory Availability. *Int. Journal of Simulation Modelling*, Vol. 20, No. 1, p. 29-39
65	Gong, D. C.; Chen, P. S. & Wang, S. J.	Simulation Study of Impact of Capacity Reservation Threshold on Order Fulfilment	Capacity Planning, Potential Order, Reservation Threshold, Reservation Strategy, Simulation, Machine Tool Industry, Assembly Plant	20, 1, 17-28	10.2507/IJSIMM20-1-537	Gong D. C., Chen P. S., Wang S. J. (2021). Simulation Study of Impact of Capacity Reservation Threshold on Order Fulfilment. *Int. Journal of Simulation Modelling*, Vol. 20, No. 1, p. 17-28
66	Burinskiene, A.	The Efficiency Increase in a Two-Stage Transport System	Transport System, Two-Stage, Shipping Strategy, Delivery Strategy, Costs Metrics	20, 1, 5-16	10.2507/IJSIMM20-1-536	Burinskiene A. (2021). The Efficiency Increase in a Two-Stage Transport System. *Int. Journal of Simulation Modelling*, Vol. 20, No. 1, p. 5-16
1	Hu, X. P.	Cooperative Automatic Control for the Canopy Posture of a Four-Leg Hydraulic Support	Four-Leg Hydraulic Support, Canopy Posture, Cooperative Control, Double Closed-Loop	19, 4, 713-724	10.2507/IJSIMM19-4-CO20	Hu X. P. (2020). Cooperative Automatic Control for the Canopy Posture of a Four-Leg Hydraulic Support. *Int. Journal of Simulation Modelling*, Vol. 19, No. 4, p. 713-724
2	Jiang, H.	Solving Multi-Robot Picking Problem in Warehouses: a Simulation Approach	Multi-Robot, Picking System, Warehouses, Two-Stage Order Batch Model; Dynamic Clustering Algorithm	19, 4, 701-712	10.2507/IJSIMM19-4-CO19	Jiang H. (2020). Solving Multi-Robot Picking Problem in Warehouses: a Simulation Approach. *Int. Journal of Simulation Modelling*, Vol. 19, No. 4, p. 701-712
3	Yu, Y. X.; Ke, S. D. & Jin, K. D.	Structural Parameters Optimization for a Proportional Solenoid	Optimization, Proportional Solenoid, Force-Displacement Characteristic, Parameter Sensitivity Analysis	19, 4, 689-700	10.2507/IJSIMM19-4-CO18	Yu Y. X., Ke S. D., Jin K. D. (2020). Structural Parameters Optimization for a Proportional Solenoid. *Int. Journal of Simulation Modelling*, Vol. 19, No. 4, p. 689-700
4	Wang, C.; Yang, B. & Wang, H. Q.	Multi-Objective Master Production Schedule for Balanced Production of Manufacturers	Manufacturer, Master Production Schedule (MPS), Balanced Production, Multiple Objectives	19, 4, 678-688	10.2507/IJSIMM19-4-CO17	Wang C., Yang B., Wang H. Q. (2020). Multi-Objective Master Production Schedule for Balanced Production of Manufacturers. *Int. Journal of Simulation Modelling*, Vol. 19, No. 4, p. 678-688
5	Gao, H. N.; Shen, D. H.; Yu, L. & Zhang, W. C.	Identification of Cutting Chatter through Deep Learning and Classification	Cutting Chatter, Chatter Identification, Deep Residual Convolutional Neural Network, Support Vector Machine, Variational Mode Decomposition	19, 4, 667-677	10.2507/IJSIMM19-4-CO16	Gao H. N., Shen D. H., Yu L., Zhang W. C. (2020). Identification of Cutting Chatter through Deep Learning and Classification. *Int. Journal of Simulation Modelling*, Vol. 19, No. 4, p. 667-677
6	Ghinea, M.; Agud, M. & Bodog, M.	Simulation of Pneumatic Systems Using Automation Studio™ Software Platform	Pneumatics, Simulation, Pneumatic Engine, Mechatronics, Automation Studio	19, 4, 655-666	10.2507/IJSIMM19-4-541	Ghinea M., Agud M., Bodog M. (2020). Simulation of Pneumatic Systems Using Automation Studio™ Software Platform. *Int. Journal of Simulation Modelling*, Vol. 19, No. 4, p. 655-666
7	Ren, W. J.; Wang, L.; Mao, Q. H.; Jiang, S. B. & Huang, S.	Coupling Properties of Chain Drive System under Various and Eccentric Loads	Scraper Conveyor, Dynamic Properties, Various Load, Eccentric Load, Coupling Analysis	19, 4, 643-654	10.2507/IJSIMM19-4-535	Ren W. J., Wang L., Mao Q. H., Jiang S. B., Huang S. (2020). Coupling Properties of Chain Drive System under Various and Eccentric Loads. *Int. Journal of Simulation Modelling*, Vol. 19, No. 4, p. 643-654

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8	Czyz, Z. & Karpinski, P.	Aerodynamic Characteristics of the X-Tail Stabilizer in a Hybrid Unmanned Aircraft	Aerodynamic Characteristics, Autogyro, Hybrid Aircraft, Multicopter, Stabilizer	19, 4, 631-642	10.2507/IJSIMM19-4-534	Czyz Z., Karpinski P. (2020). Aerodynamic Characteristics of the X-Tail Stabilizer in a Hybrid Unmanned Aircraft. *Int. Journal of Simulation Modelling*, Vol. 19, No. 4, p. 631-642
9	Arango, I. & Herrera, A.	Simulator with Embedded Intelligence Focused on the Design Process	Mechatronic Simulation, Engineering Training, Dynamic Systems, Conceptual Design, 3D Animation, Methodical Design	19, 4, 619-630	10.2507/IJSIMM19-4-533	Arango I., Herrera A. (2020). Simulator with Embedded Intelligence Focused on the Design Process. *Int. Journal of Simulation Modelling*, Vol. 19, No. 4, p. 619-630
10	Yu, J. P.; Zou, D. Y. & Zhang, Y.	Analysis of Rock Dynamic Stresses During the Drilling by Polycrystalline Diamond Compact Bits	PDC Bit, Rock Breaking, Dynamic Stress, Simulation Calculation, ANSYS/LS-DYNA, Wear Resistance	19, 4, 607-618	10.2507/IJSIMM19-4-532	Yu J. P., Zou D. Y., Zhang Y. (2020). Analysis of Rock Dynamic Stresses During the Drilling by Polycrystalline Diamond Compact Bits. *Int. Journal of Simulation Modelling*, Vol. 19, No. 4, p. 607-618
11	Kang, W. T.; Derani, M. N. & Ratnam, M. M.	Effect of Vibration on Surface Roughness in Finish Turning: Simulation Study	Surface Roughness, Vibration, Simulation, Tool Wear	19, 4, 595-606	10.2507/IJSIMM19-4-531	Kang W. T., Derani M. N., Ratnam M. M. (2020). Effect of Vibration on Surface Roughness in Finish Turning: Simulation Study. *Int. Journal of Simulation Modelling*, Vol. 19, No. 4, p. 595-606
12	Lopes, H.; Silva, S. P. & Machado, J.	Simulation of Temperature Evolution of Cork Composites During Moulding Process	Temperature, Cork Composites, Thermal Conductivity, Specific Heat, Density	19, 4, 583-594	10.2507/IJSIMM19-4-530	Lopes H., Silva S. P., Machado J. (2020). Simulation of Temperature Evolution of Cork Composites During Moulding Process. *Int. Journal of Simulation Modelling*, Vol. 19, No. 4, p. 583-594
13	Lopes, H. S.; Lima, R. S. & Leal, F.	Simulation Project for Logistics of Brazilian Soybean Exportation	Simulation Project, Discrete-Event Simulation, Conceptual Modelling, Logistics, Soybean	20, 1, 571-582	10.2507/IJSIMM19-4-529	Lopes H. S., Lima R. S., Leal F. (2020). Simulation Project for Logistics of Brazilian Soybean Exportation. *Int. Journal of Simulation Modelling*, Vol. 19, No. 4, p. 571-582
14	Istokovic, D.; Perinic, M.; Vlatkovic, M. & Brezocnik, M.	Minimizing Total Production Cost in a Hybrid Flow Shop: a Simulation-Optimization Approach	Hybrid Flow Shop, Batching, Batch Scheduling, Production Cost, Discrete Event Simulation, Genetic Algorithm	19, 4, 559-570	10.2507/IJSIMM19-4-525	Istokovic D., Perinic M., Vlatkovic M., Brezocnik M. (2020). Minimizing Total Production Cost in a Hybrid Flow Shop: a Simulation-Optimization Approach. *Int. Journal of Simulation Modelling*, Vol. 19, No. 4, p. 559-570
15	Ficko, M.; Begic-Hajdarevic, D.; Hadziabdic, V. & Klancnik, S.	Multi-Response Optimisation of Turning Process Parameters with GRA and TOPSIS Methods	Turning, Cutting Parameters, Optimisation, Grey Relational Analysis, TOPSIS	19, 4, 547-558	10.2507/IJSIMM19-4-524	Ficko M., Begic-Hajdarevic D., Hadziabdic V., Klancnik S. (2020). Multi-Response Optimisation of Turning Process Parameters with GRA and TOPSIS Methods. *Int. Journal of Simulation Modelling*, Vol. 19, No. 4, p. 547-558
16	Zhang, Y. Q. & Zhang, H.	Dynamic Scheduling of Blocking Flow-Shop Based on Multi-Population ACO Algorithm	Flow-Shop Scheduling Problem, Dynamic Job-Shop Scheduling, Multi-Population Ant Colony Optimization Algorithm, Discrete Event Simulation	19, 3, 529-539	10.2507/IJSIMM19-3-CO15	Zhang Y. Q., Zhang H. (2020). Dynamic Scheduling of Blocking Flow-Shop Based on Multi-Population ACO Algorithm. *Int. Journal of Simulation Modelling*, Vol. 19, No. 3, p. 529-539
17	Zhang, H. & Zhang, Y. Q.	A Discrete Job-Shop Scheduling Algorithm Based on Improved Genetic Algorithm	Discrete Job-Shop Scheduling Problem (DJSP), Bi-Directional Scheduling, Genetic Algorithm (GA), Rolling Window, Discrete Event Simulation	19, 3, 517-528	10.2507/IJSIMM19-3-CO14	Zhang H., Zhang Y. Q. (2020). A Discrete Job-Shop Scheduling Algorithm Based on Improved Genetic Algorithm. *Int. Journal of Simulation Modelling*, Vol. 19, No. 3, p. 517-528
18	Lin, T.; Wu, P.; Gao, F. M. & Wu, T. S.	Energy-Saving Cloud Workflow Scheduling Based on Optimistic Cost Table	Energy Consumption, Workflows, Scheduling Algorithm, Sensors	19, 3, 505-516	10.2507/IJSIMM19-3-CO13	Lin T., Wu P., Gao F. M., Wu T. S. (2020). Energy-Saving Cloud Workflow Scheduling Based on Optimistic Cost Table. *Int. Journal of Simulation Modelling*, Vol. 19, No. 3, p. 505-516
19	Huo, D. X.; Xiao, X. J. & Pan, Y. J.	Multi-Objective Energy-Saving Job-Shop Scheduling Based on Improved NSGA-II	Job-Shop Scheduling Problem, Multi-Objective Energy-Saving Optimization, Non-Dominated Sorting Genetic Algorithm II, Green Manufacturing	19, 3, 494-504	10.2507/IJSIMM19-3-CO12	Huo D. X., Xiao X. J., Pan Y. J. (2020). Multi-Objective Energy-Saving Job-Shop Scheduling Based on Improved NSGA-II. *Int. Journal of Simulation Modelling*, Vol. 19, No. 3, p. 494-504
20	Yang, L.; Yang, B.; Yang, G. W.; Xiao, S. N.; Zhu, T. & Wang, F.	S-N Curve and Quantitative Relationship of Single-Spot and Multi-Spot Weldings	Spot Welding, Quantitative Relationship, S-N Curve, Finite Element Method, Optimization	19, 3, 482-493	10.2507/IJSIMM19-3-CO11	Yang L., Yang B., Yang G. W., Xiao S. N., Zhu T., Wang F. (2020). S-N Curve and Quantitative Relationship of Single-Spot and Multi-Spot Weldings. *Int. Journal of Simulation Modelling*, Vol. 19, No. 3, p. 482-493
21	Kliment, M.; Trebuna, P.; Pekarcikova, M.; Straka, M.; Trojan, J. & Duda, R.	Production Efficiency Evaluation and Products' Quality Improvement Using Simulation	Simulation, Production Process, Efficiency, Quality	19, 3, 470-481	10.2507/IJSIMM19-3-528	Kliment M., Trebuna P., Pekarcikova M., Straka M., Trojan J., Duda R. (2020). Production Efficiency Evaluation and Products' Quality Improvement Using Simulation. *Int. Journal of Simulation Modelling*, Vol. 19, No. 3, p. 470-481
22	Jordan, E.; Berlec, T.; Rihar, L. & Kusar, J.	Simulation of Cost Driven Value Stream Mapping	Lean Production, Value Stream Mapping (VSM), Simulation, Leanness Cost Index, Portfolio Analysis of Production System Leanness	19, 3, 458-469	10.2507/IJSIMM19-3-527	Jordan E., Berlec T., Rihar L., Kusar J. (2020). Simulation of Cost Driven Value Stream Mapping. *Int. Journal of Simulation Modelling*, Vol. 19, No. 3, p. 458-469
23	Kogler, C. & Rauch, P.	Game-Based Workshops for the Wood Supply Chain to Facilitate Knowledge Transfer	Discrete Event Simulation, Logistics, Wood-Based Industry, Decision Support System, Simulation Education; Workshop Design	19, 3, 446-457	10.2507/IJSIMM19-3-526	Kogler C., Rauch P. (2020). Game-Based Workshops for the Wood Supply Chain to Facilitate Knowledge Transfer. *Int. Journal of Simulation Modelling*, Vol. 19, No. 3, p. 446-457
24	Freile, A. J.; Mula, J. & Campuzano-Bolarin, F.	Integrating Inventory and Transport Capacity Planning in a Food Supply Chain	Supply Chain, Inventory Management, Transport Capacity Management, Food Sector, Simulation, System Dynamics	19, 3, 434-445	10.2507/IJSIMM19-3-523	Freile A. J., Mula J., Campuzano-Bolarin F. (2020). Integrating Inventory and Transport Capacity Planning in a Food Supply Chain. *Int. Journal of Simulation Modelling*, Vol. 19, No. 3, p. 434-445
25	Zheng, W.-Q.; Zhang, L.-P.; Zhang, L.-X. & Zhou, J.-P.	Reflux Problem Analysis and Structure Optimization of the Spiral Grooved-Wheel Fertilizer Apparatus	Staggered Spiral Grooved-Wheel, Reflux Phenomenon, Fertilization Performances, Structural Optimization	19, 3, 422-433	10.2507/IJSIMM19-3-522	Zheng W.-Q., Zhang L.-P., Zhang L.-X., Zhou J.-P. (2020). Reflux Problem Analysis and Structure Optimization of the Spiral Grooved-Wheel Fertilizer Apparatus. *Int. Journal of Simulation Modelling*, Vol. 19, No. 3, p. 422-433
26	Sebo, J. & Busa Jr., J.	Comparison of Advanced Methods for Picking Path Optimization: Case Study of Dual-Zone Warehouse	Picking Path, Optimization, Genetic Algorithm, Travel Distance, Routing Strategy	19, 3, 410-421	10.2507/IJSIMM19-3-521	Sebo J., Busa Jr. J. (2020). Comparison of Advanced Methods for Picking Path Optimization: Case Study of Dual-Zone Warehouse. *Int. Journal of Simulation Modelling*, Vol. 19, No. 3, p. 410-421

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27	Meng, Z. S.; Zhang, S.; Xie, Y. Y. & Zeng, Q. L.	Attitude Adjustment of Backfilling Support Based on Mechanical-Hydraulic Co-Simulation	Backfilling Support, Attitude Adjustment, Vibration, Mechanical-Hydraulic Co-Simulation	19, 3, 399-409	10.2507/IJSIMM19-3-520	Meng Z. S., Zhang S., Xie Y. Y., Zeng Q. L. (2020). Attitude Adjustment of Backfilling Support Based on Mechanical-Hydraulic Co-Simulation. *Int. Journal of Simulation Modelling*, Vol. 19, No. 3, p. 399-409
28	Koblasa, F.; Kralikova, R. & Votrubec, R.	Influence of EA Control Parameters to Optimization Process of FJSSP Problem	Evolution Algorithms, Flexible Job Shop Scheduling Problem, Parameter Control, Statistical Process Control	19, 3, 387-398	10.2507/IJSIMM19-3-519	Koblasa F., Kralikova R., Votrubec R. (2020). Influence of EA Control Parameters to Optimization Process of FJSSP Problem. *Int. Journal of Simulation Modelling*, Vol. 19, No. 3, p. 387-398
29	Amorim, G. A.; Lopes, L. A. S. & Silva Junior, O. S.	Discrete Event-Based Railway Simulation Model for Eco-Efficiency Evaluation	Railyard, Discrete Event-Based, Simulation, Eco-Efficiency, Anylogic, Paranaguá	19, 3, 375-386	10.2507/IJSIMM19-3-517	Amorim G. A., Lopes L. A. S., Silva Junior O. S. (2020). Discrete Event-Based Railway Simulation Model for Eco-Efficiency Evaluation. *Int. Journal of Simulation Modelling*, Vol. 19, No. 3, p. 375-386
30	Vilela, F. F.; Leal, F.; Montevechi, J. A. B. & Piedade, D. D. C.	Effect of Human Factor Performance on the Productivity of a Manual Assembly Line	Discrete Event Simulation, Human Factor Performance, Manual Assembly Line, Simulation Model Reliability	19, 3, 365-374	10.2507/IJSIMM19-3-508	Vilela F. F., Leal F., Montevechi J. A. B., Piedade D. D. C. (2020). Effect of Human Factor Performance on the Productivity of a Manual Assembly Line. *Int. Journal of Simulation Modelling*, Vol. 19, No. 3, p. 365-374
31	Fan, W. G.; Zhang, S.; Wang, J. D.; Wang, X. H. & Wang, W. X.	Temperature Field of Open-Structured Abrasive Belt Rail Grinding Using FEM	Rail Grinding, Belt Grinding, Temperature Field, Abrasive Scratching, FEM	19, 2, 346-356	10.2507/IJSIMM19-2-CO10	Fan W. G., Zhang S., Wang J. D., Wang X. H., Wang W. X. (2020). Temperature Field of Open-Structured Abrasive Belt Rail Grinding Using FEM. *Int. Journal of Simulation Modelling*, Vol. 19, No. 2, p. 346-356
32	Yang, D.; Sun, Y. & Wu, K.	Assembly Reliability Modelling Technology Using Function Decomposing and LSSVM	Assembly Reliability, Reliability Modelling, STWM Model, Modified Grey Relation, LSSVM	19, 2, 334-345	10.2507/IJSIMM19-2-CO9	Yang D., Sun Y., Wu K. (2020). Assembly Reliability Modelling Technology Using Function Decomposing and LSSVM. *Int. Journal of Simulation Modelling*, Vol. 19, No. 2, p. 334-345
33	Li, J. X. & Wen, X. N.	Construction and Simulation of Multi-Objective Rescheduling Model Based on PSO	Job-Shop Scheduling Problem (JSP), Particle Swarm Optimization (PSO), Dynamic Events, Multi-Objective Rescheduling	19, 2, 323-333	10.2507/IJSIMM19-2-CO8	Li J. X., Wen X. N. (2020). Construction and Simulation of Multi-Objective Rescheduling Model Based on PSO. *Int. Journal of Simulation Modelling*, Vol. 19, No. 2, p. 323-333
34	Shen, C. & Chen, Y. L.	Blocking Flow Shop Scheduling Based on Hybrid Ant Colony Optimization	Blocking Flow Shop Scheduling Problem (BFSSP), Ant Colony Optimization, Swarm Intelligence Algorithm, Swap Local Search Algorithm	19, 2, 313-322	10.2507/IJSIMM19-2-CO7	Shen C., Chen Y. L. (2020). Blocking Flow Shop Scheduling Based on Hybrid Ant Colony Optimization. *Int. Journal of Simulation Modelling*, Vol. 19, No. 2, p. 313-322
35	Xu, Y. L.; Nie, H. W.; Zhao, H. L. & Liu, J.	Mathematical Modelling and Simulation of a Novel Hydraulic Variable Valve Timing System	Hydraulic Variable Valve Timing (VVT) System, Mathematical Modelling, Simulation, AMESim	19, 2, 303-312	10.2507/IJSIMM19-2-CO6	Xu Y. L., Nie H. W., Zhao H. L., Liu J. (2020). Mathematical Modelling and Simulation of a Novel Hydraulic Variable Valve Timing System. *Int. Journal of Simulation Modelling*, Vol. 19, No. 2, p. 303-312
36	Poklemba, R.; Duplakova, D.; Zajac, J.; Duplak, J.; Simkulet, V. & Goldyniak, D.	Design and Investigation of Machine Tool Bed Based on Polymer Concrete Mixture	Polymer Concrete, Bed Machine, Stress Analysis, Modal Analysis	19, 2, 291-302	10.2507/IJSIMM19-2-518	Poklemba R., Duplakova D., Zajac J., Duplak J., Simkulet V., Goldyniak D. (2020). Design and Investigation of Machine Tool Bed Based on Polymer Concrete Mixture. *Int. Journal of Simulation Modelling*, Vol. 19, No. 2, p. 291-302
37	Hu, Q. X.; Yang, Y. & Shi, W. D.	Cavitation Simulation of Centrifugal Pump with Different Inlet Attack Angles	Centrifugal Pump, Cavitation, Numerical Calculation, Blade Loading, Inlet Attack Angle	19, 2, 279-290	10.2507/IJSIMM19-2-516	Hu Q. X., Yang Y., Shi W. D. (2020). Cavitation Simulation of Centrifugal Pump with Different Inlet Attack Angles. *Int. Journal of Simulation Modelling*, Vol. 19, No. 2, p. 279-290
38	Popov, S.; Popovic, L.; Cosic, D.; Novakovic, T. & Curcic, K.	Geography of Things Based Flood Risk Insurance Modelling	Geography of Things, Geographic Information System, Smart City, Flood, Insurance Modelling, Urbanisation	19, 2, 267-278	10.2507/IJSIMM19-2-515	Popov S., Popovic L., Cosic D., Novakovic T., Curcic K. (2020). Geography of Things Based Flood Risk Insurance Modelling. *Int. Journal of Simulation Modelling*, Vol. 19, No. 2, p. 267-278
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40	Pekarcikova, M.; Trebuna, P.; Kliment, M. & Rosocha, L.	Material Flow Optimization through E-Kanban System Simulation	E-Kanban, Modelling, Simulation, Visibility, Digitalization	19, 2, 243-254	10.2507/IJSIMM19-2-513	Pekarcikova M., Trebuna P., Kliment M., Rosocha L. (2020). Material Flow Optimization through E-Kanban System Simulation. *Int. Journal of Simulation Modelling*, Vol. 19, No. 2, p. 243-254
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42	Modrak, V. & Soltysova, Z.	Batch Size Optimization of Multi-Stage Flow Lines in Terms of Mass Customization	Mass Customization, Scheduling, Flow Shop, Batch Sizing, Due Date, Makespan	19, 2, 219-230	10.2507/IJSIMM19-2-511	Modrak V., Soltysova Z. (2020). Batch Size Optimization of Multi-Stage Flow Lines in Terms of Mass Customization. *Int. Journal of Simulation Modelling*, Vol. 19, No. 2, p. 219-230
43	Dunder, M.; Samardzic, I.; Simunovic, G. & Konjatic, P.	Steel Weldability Investigation by Single and Double-Pass Weld Thermal Cycle Simulation	Weldability, Weld Thermal Cycle Simulation, Smitweld 1405, Heat-Affected Zone	19, 2, 209-218	10.2507/IJSIMM19-2-510	Dunder M., Samardzic I., Simunovic G., Konjatic P. (2020). Steel Weldability Investigation by Single and Double-Pass Weld Thermal Cycle Simulation. *Int. Journal of Simulation Modelling*, Vol. 19, No. 2, p. 209-218
44	Rosnitschek, T.; Hueter, F. & Alber-Laukant, B.	FEM-Based Modelling of Elastic Properties and Anisotropic Sinter Shrinkage of Metal EAM	FEA, Anisotropy Shrinkage, Sintering, Material Extrusion Additive Manufacturing, Metallic Components, Representative Volume Elements	19, 2, 197-208	10.2507/IJSIMM19-2-509	Rosnitschek T., Hueter F., Alber-Laukant B. (2020). FEM-Based Modelling of Elastic Properties and Anisotropic Sinter Shrinkage of Metal EAM. *Int. Journal of Simulation Modelling*, Vol. 19, No. 2, p. 197-208
45	Tvrdon, L. & Fedorko, G.	Usage of Dynamic Simulation in Pressing Shop Production System Design	Simulation, Modelling, Production Systems, Logistics	19, 2, 185-196	10.2507/IJSIMM19-2-494	Tvrdon L., Fedorko G. (2020). Usage of Dynamic Simulation in Pressing Shop Production System Design. *Int. Journal of Simulation Modelling*, Vol. 19, No. 2, p. 185-196

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46	Fang, X.; Wang, R.; Yuan, F. J.; Gong, Y.; Cai, J. R. & Wang, Y. L.	Modelling and Simulation of Fresh-Product Supply Chain Considering Random Circulation Losses	Fresh Product, Circulation Loss, Wholesale Price, Supply Chain	19, 1, 169-177	10.2507/IJSIMM19-1-CO5	Fang X., Wang R., Yuan F. J., Gong Y., Cai J. R., Wang Y. L. (2020). Modelling and Simulation of Fresh-Product Supply Chain Considering Random Circulation Losses. *Int. Journal of Simulation Modelling*, Vol. 19, No. 1, p. 169-177
47	Ren, J. F.; Ye, C. M. & Yang, F.	A Novel Solution to JSPs Based on Long Short-Term Memory and Policy Gradient Algorithm	Job-Shop Scheduling Problem (JSP), Long Short-Term Memory (LSTM), Pointer Network, Policy Gradient Algorithm	19, 1, 157-168	10.2507/IJSIMM19-1-CO4	Ren J. F., Ye C. M., Yang F. (2020). A Novel Solution to JSPs Based on Long Short-Term Memory and Policy Gradient Algorithm. *Int. Journal of Simulation Modelling*, Vol. 19, No. 1, p. 157-168
48	Alatangaowa, B.; Batbileg, S. & Enkhbat, R.	A Bi-Objective Optimization Algorithm for Automobile Manufacturing Scheduling	Automobile Manufacturing, Workflow, Scheduling Optimization, Maximal Service Quality, Deadline	19, 1, 146-156	10.2507/IJSIMM19-1-CO3	Alatangaowa B., Batbileg S., Enkhbat R. (2020). A Bi-Objective Optimization Algorithm for Automobile Manufacturing Scheduling. *Int. Journal of Simulation Modelling*, Vol. 19, No. 1, p. 146-156
49	Zhao, X. F.; Liu, H. Z.; Lin, S. X. & Chen, Y. K.	Design and Implementation of a Multiple AGV Scheduling Algorithm for a Job-Shop	Job-Shop, Automated Guided Vehicles (AGVs), Scheduling Algorithm, Path Planning	19, 1, 134-145	10.2507/IJSIMM19-1-CO2	Zhao X. F., Liu H. Z., Lin S. X., Chen Y. K. (2020). Design and Implementation of a Multiple AGV Scheduling Algorithm for a Job-Shop. *Int. Journal of Simulation Modelling*, Vol. 19, No. 1, p. 134-145
50	Shi, D. L.; Zhang, B. B. & Li, Y.	A Multi-Objective Flexible Job-Shop Scheduling Model Based on Fuzzy Theory and Immune Genetic Algorithm	Flexible Job-Shop Scheduling Problem (FJSP), Fuzzy Delivery Time, Immune Genetic Algorithm (IGA), Makespan	19, 1, 123-133	10.2507/IJSIMM19-1-CO1	Shi D. L., Zhang B. B., Li Y. (2020). A Multi-Objective Flexible Job-Shop Scheduling Model Based on Fuzzy Theory and Immune Genetic Algorithm. *Int. Journal of Simulation Modelling*, Vol. 19, No. 1, p. 123-133
51	Veingerl Cic, Z.; Vujica Herzog, N. & Macek, A.	Individual Work Performance Management Model	Individual Employee Performance Management, Nonlinear Connections, Service Sector, Structural Equation Modelling, WarpPLS 5.0	19, 1, 112-122	10.2507/IJSIMM19-1-507	Veingerl Cic Z., Vujica Herzog N., Macek A. (2020). Individual Work Performance Management Model. *Int. Journal of Simulation Modelling*, Vol. 19, No. 1, p. 112-122
52	Wang, H. L.; Long, B.; Yang, Y.; Xiao, Y. & Wang, C.	Modelling the Influence of Inlet Angle Change on the Performance of Submersible Well Pumps	Submersible Well Pumps, Inlet Angle, Hydraulic Design, Internal Flow Field	19, 1, 100-111	10.2507/IJSIMM19-1-506	Wang H. L., Long B., Yang Y., Xiao Y., Wang C. (2020). Modelling the Influence of Inlet Angle Change on the Performance of Submersible Well Pumps. *Int. Journal of Simulation Modelling*, Vol. 19, No. 1, p. 100-111
53	Kovac, M. & Djurdjevic, D.	Optimization of Order-Picking Systems through Tactical and Operational Decision Making	Warehouse Design, Order-Picking, System Approach, Simulation	19, 1, 89-99	10.2507/IJSIMM19-1-505	Kovac M., Djurdjevic D. (2020). Optimization of Order-Picking Systems through Tactical and Operational Decision Making. *Int. Journal of Simulation Modelling*, Vol. 19, No. 1, p. 89-99
54	Onofrejova, D.; Janekova, J.; Grincova, A. & Soltysova, Z.	Simulation and Evaluation of Production Factors in Manufacturing of Fireplaces	Lean Production, Simulation Experiments, Capacity Optimization, Profit Maximization, Simplex Analysis	19, 1, 77-88	10.2507/IJSIMM19-1-504	Onofrejova D., Janekova J., Grincova A., Soltysova Z. (2020). Simulation and Evaluation of Production Factors in Manufacturing of Fireplaces. *Int. Journal of Simulation Modelling*, Vol. 19, No. 1, p. 77-88
55	Ojstersek, R.; Acko, B. & Buchmeister, B.	Simulation Study of a Flexible Manufacturing System Regarding Sustainability	Manufacturing Flexibility, Sustainable Manufacturing, Simulation Modelling, Simio, Flexible Job Shop Scheduling Problem, Evolutionary Computation	19, 1, 65-76	10.2507/IJSIMM19-1-502	Ojstersek R., Acko B., Buchmeister B. (2020). Simulation Study of a Flexible Manufacturing System Regarding Sustainability. *Int. Journal of Simulation Modelling*, Vol. 19, No. 1, p. 65-76
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57	Pabiszczak, S. & Staniek, R.	Investigation of Contact Stresses in the Eccentric Rolling Transmission	Eccentric Rolling Transmission, Contact Stress, FEM Simulation	19, 1, 41-52	10.2507/IJSIMM19-1-500	Pabiszczak S., Staniek R. (2020). Investigation of Contact Stresses in the Eccentric Rolling Transmission. *Int. Journal of Simulation Modelling*, Vol. 19, No. 1, p. 41-52
58	Szurgott, P. & Bernacki, P.	Modelling of Steel-Concrete Bridges Subjected to a Moving High-Speed Train	Railway Vehicle, Vehicle Track Interaction, Railway Track, Train Passing, Simulation	19, 1, 29-40	10.2507/IJSIMM19-1-499	Szurgott P., Bernacki P. (2020). Modelling of Steel-Concrete Bridges Subjected to a Moving High-Speed Train. *Int. Journal of Simulation Modelling*, Vol. 19, No. 1, p. 29-40
59	Yang, Z. K.; Sun, Z. Y.; Jiang, S. B.; Mao, Q. H.; Liu, P. & Xu, C. Z.	Structural Analysis on Impact-Mechanical Properties of Ultra-High Hydraulic Support	Hydraulic Support, Mechanical Properties, Impact Load, Support Stability	19, 1, 17-28	10.2507/IJSIMM19-1-498	Yang Z. K., Sun Z. Y., Jiang S. B., Mao Q. H., Liu P., Xu C. Z. (2020). Structural Analysis on Impact-Mechanical Properties of Ultra-High Hydraulic Support. *Int. Journal of Simulation Modelling*, Vol. 19, No. 1, p. 17-28
60	Suryani, E.; Hendrawan, R. A.; Adipraja, P. F. E. & Indraswari, R.	System Dynamics Simulation Model for Urban Transportation Planning: a Case Study	Model, System Dynamics, Urban Transportation Planning, Mobility, Congestion	19, 1, 5-16	10.2507/IJSIMM19-1-493	Suryani E., Hendrawan R. A., Adipraja P. F. E., Indraswari R. (2020). System Dynamics Simulation Model for Urban Transportation Planning: a Case Study. *Int. Journal of Simulation Modelling*, Vol. 19, No. 1, p. 5-16
1	Tang, Z. P.; Chen, Z. X.; Sun, J. P.; Hu, Y. T. & Zhao, M.	Noise Prediction of Traction Gear in High-Speed Electric Multiple Unit	Traction Gear of EMU, Dynamic Characteristics, Acoustic BEM, Noise Prediction	18, 4, 720-731	10.2507/IJSIMM18(4)CO20	Tang Z. P., Chen Z. X., Sun J. P., Hu Y. T., Zhao M. (2019). Noise Prediction of Traction Gear in High-Speed Electric Multiple Unit. *Int. Journal of Simulation Modelling*, Vol. 18, No. 4, p. 720-731
2	Min, J. N.; Jin, C. & Lu, L. J.	Split-Delivery Vehicle Routing Problems Based on a Multi-Restart Improved Sweep Approach	Fine-Tuning, Multi-Restart Improved Sweep Algorithm, Tabu Search, VRP	18, 4, 708-719	10.2507/IJSIMM18(4)CO19	Min J. N., Jin C., Lu L. J. (2019). Split-Delivery Vehicle Routing Problems Based on a Multi-Restart Improved Sweep Approach. *Int. Journal of Simulation Modelling*, Vol. 18, No. 4, p. 708-719
3	Zhang, Z.; Guan, Z. L.; Zhang, J. & Xie, X.	A Novel Job-Shop Scheduling Strategy Based on Particle Swarm Optimization and Neural Network	Job-Shop Scheduling Problem (JSP), Particle Swarm Optimization (PSO), Neural Network (NN), Maximum Makespan	18, 4, 699-707	10.2507/IJSIMM18(4)CO18	Zhang Z., Guan Z. L., Zhang J., Xie X. (2019). A Novel Job-Shop Scheduling Strategy Based on Particle Swarm Optimization and Neural Network. *Int. Journal of Simulation Modelling*, Vol. 18, No. 4, p. 699-707
4	Yang, M. S.; Ba, L.; Xu, E. B.; Li, Y.; Gao, X. Q.; Liu, Y. & Li, Y.	Batch Optimization in Integrated Scheduling of Machining and Assembly	Integration of Machining and Assembling, Equal-Batch Splitting, Genetic Algorithm (GA), Batch Production	18, 4, 689-698	10.2507/IJSIMM18(4)CO17	Yang M. S., Ba L., Xu E. B., Li Y., Gao X. Q., Liu Y., Li Y. (2019). Batch Optimization in Integrated Scheduling of Machining and Assembly. *Int. Journal of Simulation Modelling*, Vol. 18, No. 4, p. 689-698

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5	Xu, L. Z.; Xie, Q. S.; Yuan, Q. N. & Huang, H. S.	An Intelligent Optimization Algorithm for Blocking Flow-Shop Scheduling Based on Differential Evolution	Blocking Flow-Shop Scheduling Problem (BFSP), Differential Evolution (DE), Intelligent Optimization Algorithm, Gravitational Search Algorithm (GSA)	18, 4, 678-688	10.2507/IJSIMM18(4)CO16	Xu L. Z., Xie Q. S., Yuan Q. N., Huang H. S. (2019). An Intelligent Optimization Algorithm for Blocking Flow-Shop Scheduling Based on Differential Evolution. *Int. Journal of Simulation Modelling*, Vol. 18, No. 4, p. 678-688
6	Diaz Cazanas, R.; Delgado Sobrino, D. R.; Caganova, D.; Kostal, P. & Velisek, K.	Joint Programming of Production-Maintenance Tasks: a Simulated Annealing-Based Method	Production and Maintenance Programming, Preventive Maintenance, Heuristic Method, Longest Processing Time Rule, Pseudo-Code, SA	18, 4, 666-677	10.2507/IJSIMM18(4)503	Diaz Cazanas R., Delgado Sobrino D. R., Caganova D., Kostal P., Velisek K. (2019). Joint Programming of Production-Maintenance Tasks: a Simulated Annealing-Based Method. *Int. Journal of Simulation Modelling*, Vol. 18, No. 4, p. 666-677
7	Fragapane, G. I.; Zhang, C.; Sgarbossa, F. & Strandhagen, J. O.	An Agent-Based Simulation Approach to Model Hospital Logistics	Logistics, Hospital Logistics, Automated Guided Vehicle, Agent-Based Simulation, Performance Analysis	18, 4, 654-665	10.2507/IJSIMM18(4)497	Fragapane G. I., Zhang C., Sgarbossa F., Strandhagen J. O. (2019). An Agent-Based Simulation Approach to Model Hospital Logistics. *Int. Journal of Simulation Modelling*, Vol. 18, No. 4, p. 654-665
8	Gao, Y.; Xu, C.; Yang, L. & Wang, B.	Simulation Study on the Formation of PLGA Micro-Structure Using Hot-Pressing Method	Visco-Elastic Property, PLGA Micro-Structure, Hot-Pressing Method, Process Parameters	18, 4, 643-653	10.2507/IJSIMM18(4)496	Gao Y., Xu C., Yang L., Wang B. (2019). Simulation Study on the Formation of PLGA Micro-Structure Using Hot-Pressing Method. *Int. Journal of Simulation Modelling*, Vol. 18, No. 4, p. 643-653
9	Sterpin Valic, G.; Cukor, G., Jurkovic, Z. & Brezocnik, M.	Multi-Criteria Optimization of Turning of Martensitic Stainless Steel for Sustainability	Turning, Martensitic Stainless Steel, Sustainability, Multi-Criteria Optimization, Entropy Weighted Grey Relational Analysis, Taguchi Method	18, 4, 632-642	10.2507/IJSIMM18(4)495	Sterpin Valic G., Cukor G., Jurkovic Z., Brezocnik M. (2019). Multi-Criteria Optimization of Turning of Martensitic Stainless Steel for Sustainability. *Int. Journal of Simulation Modelling*, Vol. 18, No. 4, p. 632-642
10	Zhang, J. W.; Wu, J. Q.; Chen, W. R.; Guan, J. F.; Zhong, Y. & Xu, K. J.	Simulation Method for Dropper Dynamic Load Considering Horizontal Vibration Behaviour	High-Speed Railway, Catenary, Dropper, Horizontal Vibration, Simulation Model	18, 4, 620-631	10.2507/IJSIMM18(4)492	Zhang J. W., Wu J. Q., Chen W. R., Guan J. F., Zhong Y., Xu K. J. (2019). Simulation Method for Dropper Dynamic Load Considering Horizontal Vibration Behaviour. *Int. Journal of Simulation Modelling*, Vol. 18, No. 4, p. 620-631
11	Kim, B. S. & Kim, T. G.	Cooperation of Simulation and Data Model for Performance Analysis of Complex Systems	Cooperative Model Development, Data Modelling, Simulation Modelling, Artificial Neural Network, Discrete Event Systems Specification, Hadoop	18, 4, 608-619	10.2507/IJSIMM18(4)491	Kim B. S., Kim T. G. (2019). Cooperation of Simulation and Data Model for Performance Analysis of Complex Systems. *Int. Journal of Simulation Modelling*, Vol. 18, No. 4, p. 608-619
12	Bebic, D.; Stazic, L. & Komar, I.	Ships Shore Service Optimization Using the Queueing Theory	Queueing Process, Arrival Rate, Service Time, Service Team, System Utilization, Maintenance, Costs	18, 4, 596-607	10.2507/IJSIMM18(4)488	Bebic D., Stazic L., Komar I. (2019). Ships Shore Service Optimization Using the Queueing Theory. *Int. Journal of Simulation Modelling*, Vol. 18, No. 4, p. 596-607
13	Macyszyn, L.; Jedryczka, C. & Staniek, R.	Design and Finite Element Analysis of Novel Two-Stage Magnetic Precession Gear	Magnetic Gear, Magnetic Flux, Transmitted Torque Analysis, Precession Gear	18, 4, 586-595	10.2507/IJSIMM18(4)487	Macyszyn L., Jedryczka C., Staniek R. (2019). Design and Finite Element Analysis of Novel Two-Stage Magnetic Precession Gear. *Int. Journal of Simulation Modelling*, Vol. 18, No. 4, p. 586-595
14	Gocken, T. & Yaktubay, M.	Comparison of Different Clustering Algorithms via Genetic Algorithm for VRPTW	Vehicle Routing with Time Windows, Genetic Algorithm, Clustering, Multi-Objective Optimization, K-means Clustering Algorithm	18, 4, 574-585	10.2507/IJSIMM18(4)485	Gocken T., Yaktubay M. (2019). Comparison of Different Clustering Algorithms via Genetic Algorithm for VRPTW. *Int. Journal of Simulation Modelling*, Vol. 18, No. 4, p. 574-585
15	Sremcev, N.; Stevanov, B.; Lazarevic, M.; Mandic, J.; Tesic, Z. & Kuzmanovic, B.	Improving Process of Quotation Creation through Value Stream Mapping and Simulation	Value Stream Mapping (VSM), Lean Concept, Product Configuration System, Process Improvement, Simulation	18, 4, 563-573	10.2507/IJSIMM18(4)484	Sremcev N., Stevanov B., Lazarevic M., Mandic J., Tesic Z., Kuzmanovic B. (2019). Improving Process of Quotation Creation through Value Stream Mapping and Simulation, *Int. Journal of Simulation Modelling*, Vol. 18, No. 4, p. 563-573
16	Wan, Q.; Zheng, M. L.; Yang, S. C. & Sun, J. K.	Optimization of Micro-Texture Distribution through Finite-Element Simulation	Micro-Texture, Finite-Element Method (FEM), Micro-Round-Pit (MRP), Wear Resistance, Friction Performance	18, 3, 543-554	10.2507/IJSIMM18(3)CO15	Wan Q., Zheng M. L., Yang S. C., Sun J. K. (2019). Optimization of Micro-Texture Distribution through Finite-Element Simulation. *Int. Journal of Simulation Modelling*, Vol. 18, No. 3, p. 543-554
17	Fan, W. G.; Hou, G. Y.; Wang, W. X.; Zhang, X. L. & Wang, J. D.	Design and Dynamic Analysis of a New Rail Grinding Device Using Closed Abrasive Belt	Rail Grinding, Abrasive Belt, Device Design, Dynamic Analysis	18, 3, 531-542	10.2507/IJSIMM18(3)CO14	Fan W. G., Hou G. Y., Wang W. X., Zhang X. L., Wang J. D. (2019). Design and Dynamic Analysis of a New Rail Grinding Device Using Closed Abrasive Belt. *Int. Journal of Simulation Modelling*, Vol. 18, No. 3, p. 531-542
18	Zhu, J.; Shao, Z. H. & Chen, C.	An Improved Whale Optimization Algorithm for Job-Shop Scheduling Based on Quantum Computing	Job-Shop Scheduling Problem (JSP), Swarm Intelligence, Quantum Computing, Whale Optimization Algorithm, Global Convergence	18, 3, 521-530	10.2507/IJSIMM18(3)CO13	Zhu J., Shao Z. H., Chen C. (2019). An Improved Whale Optimization Algorithm for Job-Shop Scheduling Based on Quantum Computing. *Int. Journal of Simulation Modelling*, Vol. 18, No. 3, p. 521-530
19	Fu, H. C. & Liu, P.	A Multi-Objective Optimization Model Based on Non-Dominated Sorting Genetic Algorithm	Job-Shop Scheduling Problem (JSP), Genetic Algorithm (GA), Non-Dominated Sorting Genetic Algorithm (NSGA), Multi-Objective Scheduling	18, 3, 510-520	10.2507/IJSIMM18(3)CO12	Fu H. C., Liu P. (2019). A Multi-Objective Optimization Model Based on Non-Dominated Sorting Genetic Algorithm. *Int. Journal of Simulation Modelling*, Vol. 18, No. 3, p. 510-520
20	Pei, J. Y. & Shan, P.	A Multi-Objective Hybrid Differential Optimization Algorithm for Flow-Shop Scheduling Problem	Flow-Shop Scheduling Problem (FSP), Multi-Objective Optimization, Hybrid Differential Evolution, Genetic Algorithms (GA)	18, 3, 500-509	10.2507/IJSIMM18(3)CO11	Pei J. Y., Shan P. (2019). A Multi-Objective Hybrid Differential Optimization Algorithm for Flow-Shop Scheduling Problem. *Int. Journal of Simulation Modelling*, Vol. 18, No. 3, p. 500-509
21	Gajsek, B.; Marolt, J.; Rupnik, B.; Lerher, T. & Sternad, M.	Using Maturity Model and Discrete-Event Simulation for Industry 4.0 Implementation	Industry 4.0, Maturity Model, Steel Production, Discrete Event Simulation, Performance Analysis	18, 3, 488-499	10.2507/IJSIMM18(3)489	Gajsek B., Marolt J., Rupnik B., Lerher T., Sternad M. (2019). Using Maturity Model and Discrete-Event Simulation for Industry 4.0 Implementation. *Int. Journal of Simulation Modelling*, Vol. 18, No. 3, p. 488-499
22	Zeng, J.; Yao, Q. G.; Zhang, Y. S.; Lu, J. T. & Wang, M.	Optimal Path Selection for Emergency Relief Supplies after Mine Disasters	Path Selection, Emergency Relief, Material Transport, Path-Weight	18, 3, 476-487	10.2507/IJSIMM18(3)486	Zeng J., Yao Q. G., Zhang Y. S., Lu J. T., Wang M. (2019). Optimal Path Selection for Emergency Relief Supplies after Mine Disasters. *Int. Journal of Simulation Modelling*, Vol. 18, No. 3, p. 476-487
23	Yan, H.; Wang, Y. R.; Shi, H. X.; Li, Q.; Zeng, Y. S. & Jaini, R.	Solid-Liquid Flow of Axial Flow Pump in Loop Reactor and Operating Control with Single Invert	Axial Flow Pump, Solid-Liquid Flow, Axial Power Fluctuation, Operating Control with Single Invert	18, 3, 464-475	10.2507/IJSIMM18(3)483	Yan H., Wang Y. R., Shi H. X., Li Q., Zeng Y. S., Jaini R. (2019). Solid-Liquid Flow of Axial Flow Pump in Loop Reactor and Operating Control with Single Invert. *Int. Journal of Simulation Modelling*, Vol. 18, No. 3, p. 464-475

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24	Glamsch, J.; Deese, K. & Rieg, F.	Methods for Increased Efficiency of FEM-Based Topology Optimization	Structural Optimization, Topology Optimization, Computational Effort, Finite Element Method	18, 3, 453-463	10.2507/IJSIMM18(3)482	Glamsch J., Deese K., Rieg F. (2019). Methods for Increased Efficiency of FEM-Based Topology Optimization. *Int. Journal of Simulation Modelling*, Vol. 18, No. 3, p. 453-463
25	Dupljanin, D.; Mirkovic, M.; Dumnic, S.; Culibrk, D.; Milisavljevic, S. & Sarac, D.	Urban Crowdsourced Last Mile Delivery: Mode of Transport Effects on Fleet Performance	Logistics, Urban Delivery, Last Mile Delivery, Crowdsourcing, Simulation Modelling, Performance Analysis	18, 3, 441-452	10.2507/IJSIMM18(3)481	Dupljanin D., Mirkovic M., Dumnic S., Culibrk D., Milisavljevic S., Sarac D. (2019). Urban Crowdsourced Last Mile Delivery: Mode of Transport Effects on Fleet Performance. *Int. Journal of Simulation Modelling*, Vol. 18, No. 3, p. 441-452
26	Stanislawek, S.; Dziewulski, P. & Kedzierski, P.	Deterioration of Road Barrier Protection Ability Due to Variable Road Friction	Friction, Road Barrier, Crash Test, Numerical Modelling, Finite Element Method	18, 3, 432-440	10.2507/IJSIMM18(3)480	Stanislawek S., Dziewulski P., Kedzierski P. (2019). Deterioration of Road Barrier Protection Ability Due to Variable Road Friction. *Int. Journal of Simulation Modelling*, Vol. 18, No. 3, p. 432-440
27	Alcaraz-Mejia, M. & Campos-Rodriguez, R.	A Framework Based on Matlab/Simulink for the Simulation of DES Using Petri Net Models	Petri Net Models, Discrete-Event Systems, Matlab, Simulink, SimEvents, Discrete-Event Simulation, Hybrid Simulation	18, 3, 420-431	10.2507/IJSIMM18(3)479	Alcaraz-Mejia M., Campos-Rodriguez R. (2019). A Framework Based on Matlab/Simulink for the Simulation of DES Using Petri Net Models. *Int. Journal of Simulation Modelling*, Vol. 18, No. 3, p. 420-431
28	Straka, M.; Hurna, S.; Bozogan, M. & Spirkova, D.	Using Continuous Simulation for Identifying Bottlenecks in Specific Operation	Continuous Simulation, Bottlenecks, EXTENDSIM, Service, System	18, 3, 408-419	10.2507/IJSIMM18(3)477	Straka M., Hurna S., Bozogan M., Spirkova D. (2019). Using Continuous Simulation for Identifying Bottlenecks in Specific Operation. *Int. Journal of Simulation Modelling*, Vol. 18, No. 3, p. 408-419
29	Muthukumaran, S. & Sivaramakrishnan, R.	Optimal Path Planning for an Autonomous Mobile Robot Using Dragonfly Algorithm	Mobile Robot Navigation, Dragonfly Algorithm, Autonomous Robot, Optimization	18, 3, 397-407	10.2507/IJSIMM18(3)474	Muthukumaran S., Sivaramakrishnan R. (2019). Optimal Path Planning for an Autonomous Mobile Robot Using Dragonfly Algorithm. *Int. Journal of Simulation Modelling*, Vol. 18, No. 3, p. 397-407
30	Mali, P.; Kuzmanovic, B.; Nikolic, M.; Mitic, S. & Terek, E.	Model of Leadership and Entrepreneurial Intentions among Employed Persons	Leadership, LMX, Ethical Leadership, Entrepreneurial Intentions, Model	18, 3, 385-396	10.2507/IJSIMM18(3)471	Mali P., Kuzmanovic B., Nikolic M., Mitic S., Terek E. (2019). Model of Leadership and Entrepreneurial Intentions among Employed Persons. *Int. Journal of Simulation Modelling*, Vol. 18, No. 3, p. 385-396
31	Yang, S. L.; Xu, Z. G. & Wang, J. Y.	Modelling and Production Configuration Optimization for an Assembly Shop	Production Performance, Production Configuration, Logistics Simulation Modelling, Plant Simulation, Layout Optimization, Production Process Optimiz.	18, 2, 366-377	10.2507/IJSIMM18(2)CO10	Yang S. L., Xu Z. G., Wang J. Y. (2019). Modelling and Production Configuration Optimization for an Assembly Shop. *Int. Journal of Simulation Modelling*, Vol. 18, No. 2, p. 366-377
32	Zhao, P. X.; Gao, W. Q.; Han, X. & Luo, W. H.	Bi-Objective Collaborative Scheduling Optimization of Airport Ferry Vehicle and Tractor	Flight Ground Support, Vehicle Scheduling, Bi-Objective Programming, Particle Swarm Optimization	18, 2, 355-365	10.2507/IJSIMM18(2)CO9	Zhao P. X., Gao W. Q., Han X., Luo W. H. (2019). Bi-Objective Collaborative Scheduling Optimization of Airport Ferry Vehicle and Tractor. *Int. Journal of Simulation Modelling*, Vol. 18, No. 2, p. 355-365
33	Zhang, H. P.	Optimization of Remanufacturing Production Scheduling Considering Uncertain Factors	Uncertain Factors, Remanufacturing, Production Scheduling, Optimization, Simulation	18, 2, 344-354	10.2507/IJSIMM18(2)CO8	Zhang H. P. (2019). Optimization of Remanufacturing Production Scheduling Considering Uncertain Factors. *Int. Journal of Simulation Modelling*, Vol. 18, No. 2, p. 344-354
34	Wang, Y.; Yang, O. & Wang, S. N.	A Solution to Single-Machine Inverse Job-Shop Scheduling Problem	Inverse Scheduling, Genetic Algorithm, Particle Swarm Optimization (PSO), Job-Shop Scheduling Problem (JSP), Discrete Event Simulation (DES)	18, 2, 335-343	10.2507/IJSIMM18(2)CO7	Wang Y., Yang O., Wang S. N. (2019). A Solution to Single-Machine Inverse Job-Shop Scheduling Problem. *Int. Journal of Simulation Modelling*, Vol. 18, No. 2, p. 335-343
35	Xu, S. Z.	A Petri Net-Based Hybrid Heuristic Scheduling Algorithm for Flexible Manufacturing System	Flexible Manufacturing Systems (FMS), Petri Net (PN), Heuristic Scheduling, Discrete Event System (DES)	18, 2, 325-334	10.2507/IJSIMM18(2)CO6	Xu S. Z. (2019). A Petri Net-Based Hybrid Heuristic Scheduling Algorithm for Flexible Manufacturing System. *Int. Journal of Simulation Modelling*, Vol. 18, No. 2, p. 325-334
36	Song, R. J.; Hou, C. W.; Shi, Z. C.; Yang, X. H.; Jiang, S. B. & Jia, J. D.	Numerical Simulation for Energy Harvesting of Piezoelectric Flag in Uniform Flow	Numerical Simulation, Piezoelectric Flag, Energy Harvesting, Flow	18, 2, 314-324	10.2507/IJSIMM18(2)478	Song R. J., Hou C. W., Shi Z. C., Yang X. H., Jiang S. B., Jia J. D. (2019). Numerical Simulation for Energy Harvesting of Piezoelectric Flag in Uniform Flow. *Int. Journal of Simulation Modelling*, Vol. 18, No. 2, p. 314-324
37	Bhanot, V.; Dhumane, R.; Petagna, P.; Cioncolini, A.; Iacovides, H.; Ling, J. & Aute, V.	Development of a Numerical Tool for Dynamic Simulations of Two-Phase Cooling Systems	EcosimPro, High Energy Physics, Dynamic Simulations, Two-Phase Flow, Cooling System, Heat Pump	18, 2, 302-313	10.2507/IJSIMM18(2)476	Bhanot V., Dhumane R., Petagna P., Cioncolini A., Iacovides H., Ling J., Aute V. (2019). Development of a Numerical Tool for Dynamic Simulations of Two-Phase Cooling Systems. *Int. Journal of Simulation Modelling*, Vol. 18, No. 2, p. 302-313
38	Cheng, L. Z.; Liu, D. K.; Wang, Y. & Chen, A. Q.	Load Distribution and Contact of Axle Box Bearings in Electric Multiple Units	Axle Box of EMU, Double-Row Tapered Roller Bearing, Load Distribution, Contact Stress	18, 2, 290-301	10.2507/IJSIMM18(2)475	Cheng L. Z., Liu D. K., Wang Y., Chen A. Q. (2019). Load Distribution and Contact of Axle Box Bearings in Electric Multiple Units. *Int. Journal of Simulation Modelling*, Vol. 18, No. 2, p. 290-301
39	Bardzinski, P. J.; Krol, R. & Jurdziak, L.	Empirical Model of Discretized Copper Ore Flow Within the Underground Mine Transport System	Ore Flow, Transport System, Quality Management, Ore Lithology, Metal Yield, Empirical Model	18, 2, 279-289	10.2507/IJSIMM18(2)473	Bardzinski P. J., Krol R., Jurdziak L. (2019). Empirical Model of Discretized Copper Ore Flow Within the Underground Mine Transport System. *Int. Journal of Simulation Modelling*, Vol. 18, No. 2, p. 279-289
40	Edler, J.; Tic, V. & Lovrec, D.	1-D Simulation Model of a Progressive Flow Controller for Hydrostatic Bearings	Hydraulic, Hydrostatic Bearing, Flow Control, Simulation	18, 2, 267-278	10.2507/IJSIMM18(2)472	Edler J., Tic V., Lovrec D. (2019). 1-D Simulation Model of a Progressive Flow Controller for Hydrostatic Bearings. *Int. Journal of Simulation Modelling*, Vol. 18, No. 2, p. 267-278
41	Gocken, T.; Dosdogru, A. T.; Boru, A. & Gocken, M.	Integrating Process Plan and Part Routing Using Optimization via Simulation Approach	Dynamic Stochastic Flexible Job-Shop Scheduling, Process Plan, Part Routing, Optimization via Simulation	18, 2, 254-266	10.2507/IJSIMM18(2)470	Gocken T., Dosdogru A. T., Boru A., Gocken M. (2019). Integrating Process Plan and Part Routing Using Optimization via Simulation Approach. *Int. Journal of Simulation Modelling*, Vol. 18, No. 2, p. 254-266
42	Janekova, J.; Fabianova, J. & Fabian, M.	Assessment of Economic Efficiency and Risk of the Project Using Simulation	Project Management, Post-Audit, Risk Analysis, Monte Carlo Simulation	18, 2, 242-253	10.2507/IJSIMM18(2)467	Janekova J., Fabianova J., Fabian M. (2019). Assessment of Economic Efficiency and Risk of the Project Using Simulation. *Int. Journal of Simulation Modelling*, Vol. 18, No. 2, p. 242-253

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43	Sotelo, D.; Favela-Contreras, A.; Lozoya, C.; Beltran-Carbajal, F.; Dieck-Assad, G. & Sotelo, C.	Dynamic Simulation of a Crude Oil Distillation Plant Using Aspen-HYSYS®	Crude Oil Distillation Plant, Modelling, Simulation, Aspen HYSYS®	18, 2, 229-241	10.2507/IJSIMM18(2)465	Sotelo D., Favela-Contreras A., Lozoya C., Beltran-Carbajal F., Dieck-Assad G., Sotelo C. (2019). Dynamic Simulation of a Crude Oil Distillation Plant Using Aspen-HYSYS®. *Int. Journal of Simulation Modelling*, Vol. 18, No. 2, p. 229-241
44	Gomboc, T.; Zadravec, M.; Ilijaz, J.; Sagadin, G. & Hribersek, M.	Numerical Model of Three Stage Spray Drying for Zeolite 4A – Water Suspensions Coupled with a CFD Flow Field	Heat and Mass Transfer, Spray Drying, Multistage Drying, Particle Transport, Zeolite 4A, Computational Fluid Dynamics	18, 2, 217-228	10.2507/IJSIMM18(2)462	Gomboc T., Zadravec M., Ilijaz J., Sagadin G., Hribersek M. (2019). Numerical Model of Three Stage Spray Drying for Zeolite 4A – Water Suspensions Coupled with a CFD Flow Field. *Int. Journal of Simulation Modelling*, Vol. 18, No. 2, p. 217-228
45	Sousa Junior, W. T. de; Montevechi, J. A. B.; Miranda, R. de C.; Rocha, F. & Vilela, F. F.	Economic Lot-Size Using Machine Learning, Parallelism, Metaheuristic and Simulation	Optimisation, Economic Lot-Size, Machine Learning, Parallelism, Metaheuristic, Discrete Event Simulation	18, 2, 205-216	10.2507/IJSIMM18(2)461	Sousa Junior W. T. de, Montevechi J. A. B., Miranda R. de C., Rocha F., Vilela F. F. (2019). Economic Lot-Size Using Machine Learning, Parallelism, Metaheuristic and Simulation. *Int. Journal of Simulation Modelling*, Vol. 18, No. 2, p. 205-216
46	Liao, J. & Lin, C.	Optimization and Simulation of Job-Shop Supply Chain Scheduling in Manufacturing Enterprises Based on Particle Swarm Optimization	Job-Shop, Supply Chain, Job-Shop Scheduling, Particle Swarm Optimization (PSO), System Simulation	18, 1, 187-196	10.2507/IJSIMM18(1)CO5	Liao J., Lin C. (2019). Optimization and Simulation of Job-Shop Supply Chain Scheduling in Manufacturing Enterprises Based on Particle Swarm Optimization. *Int. Journal of Simulation Modelling*, Vol. 18, No. 1, p. 187-196
47	Yang, M. S.; Ba, L.; Liu, Y.; Zheng, H. Y.; Yan, J. T.; Gao, X. Q. & Xiao, J. M.	An Improved Genetic Simulated Annealing Algorithm for Stochastic Two-Sided Assembly Line Balancing Problem	Stochastic Two-Sided Assembly Line Balance Problem, Improved Genetic Simulated Annealing Algorithm, Makespan, Assembly Job, Previous Job	18, 1, 175-186	10.2507/IJSIMM18(1)CO4	Yang M. S., Ba L., Liu Y., Zheng H. Y., Yan J. T., Gao X. Q., Xiao J. M. (2019). An Improved Genetic Simulated Annealing Algorithm for Stochastic Two-Sided Assembly Line Balancing Problem. *Int. Journal of Simulation Modelling*, Vol. 18, No. 1, p. 175-186
48	Jiang, H. & Liu, C. Y.	Scheduling Optimization of Cloud Resource Supply Chain through Multi-Objective Particle Swarm Optimization	Cloud Manufacturing, Supply Chain, Multi-Objective Particle Swarm Optimization, Fuzzy Correlation Entropy, Discrete Event Simulation	18, 1, 163-174	10.2507/IJSIMM18(1)CO3	Jiang H., Liu C. Y. (2019). Scheduling Optimization of Cloud Resource Supply Chain through Multi-Objective Particle Swarm Optimization. *Int. Journal of Simulation Modelling*, Vol. 18, No. 1, p. 163-174
49	Tian, H.; Ma, L.; Zhu, X. & Dang, X.	Grinding Method, Trajectory Planning and Simulation of a 3 DOF Knee Grinding Robot	Knee Grinding Robot, Kinematics, Workspace, Grinding Method, Trajectory Planning	18, 1, 150-162	10.2507/IJSIMM18(1)CO2	Tian H., Ma L., Zhu X., Dang X. (2019). Grinding Method, Trajectory Planning and Simulation of a 3 DOF Knee Grinding Robot. *Int. Journal of Simulation Modelling*, Vol. 18, No. 1, p. 150-162
50	Wang, J. F.; Fei, Z. C.; Chang, Q.; Fu, Y. & Li, S. Q.	Energy-Saving Operation of Multistage Stochastic Manufacturing Systems Based on Fuzzy Logic	Energy-Saving Operation, Fuzzy Logic, Multistage Manufacturing System	18, 1, 138-149	10.2507/IJSIMM18(1)CO1	Wang J. F., Fei Z. C., Chang Q., Fu Y., Li S. Q. (2019). Energy-Saving Operation of Multistage Stochastic Manufacturing Systems Based on Fuzzy Logic. *Int. Journal of Simulation Modelling*, Vol. 18, No. 1, p. 138-149
51	Zivanic, D.; Zelic, A.; Lalic, B.; Simeunovic, N. & Szabo, L.	Improving the Order Picking Efficiency by Optimising the Orders' Sequence	Order Picking, Simulation, Logistics, Order Execution, Picking Time	18, 1, 125-137	10.2507/IJSIMM18(1)469	Zivanic D., Zelic A., Lalic B., Simeunovic N., Szabo L. (2019). Improving the Order Picking Efficiency by Optimising the Orders' Sequence. *Int. Journal of Simulation Modelling*, Vol. 18, No. 1, p. 125-137
52	Zuperl, U. & Cus, F.	A Cyber-Physical System for Smart Fixture Monitoring via Clamping Simulation	End Milling, Fixture Condition, Smart Monitoring, On-Line Simulation, Optimization, Clamping/Locating Forces	18, 1, 112-124	10.2507/IJSIMM18(1)468	Zuperl U., Cus F. (2019). A Cyber-Physical System for Smart Fixture Monitoring via Clamping Simulation. *Int. Journal of Simulation Modelling*, Vol. 18, No. 1, p. 112-124
53	Zeng, X. T.; Meng, G. Y. & Zheng, K.	Force Transmission Analysis of Sliding Block-Type Hydraulic Support under Impact Loads	Impact Load, Sliding Block, Hinge Joint Force, Friction Coefficient, Hydraulic Support	18, 1, 100-111	10.2507/IJSIMM18(1)466	Zeng X. T., Meng G. Y., Zheng K. (2019). Force Transmission Analysis of Sliding Block-Type Hydraulic Support under Impact Loads. *Int. Journal of Simulation Modelling*, Vol. 18, No. 1, p. 100-111
54	Liu, S. S.; Liu, J. & Wei, W.	Simulation of Crowd Evacuation Behaviour in Outdoor Public Places – a Model Based on Shanghai Stampede	Outdoor Public Places, Crowd Evacuation Effects, Pathfinder, Shanghai Stampede	18, 1, 86-99	10.2507/IJSIMM18(1)464	Liu S. S., Liu J., Wei W. (2019). Simulation of Crowd Evacuation Behaviour in Outdoor Public Places – a Model Based on Shanghai Stampede. *Int. Journal of Simulation Modelling*, Vol. 18, No. 1, p. 86-99
55	Vukelic, D.; Agarski, B.; Budak, I.; Simunovic, G.; Buchmeister, B.; Jakovljevic, Z. & Tadic, B.	Eco-Design of Fixtures Based on Life Cycle and Cost Assessment	Eco-Design, Eco-Efficiency, Fixtures, Life Cycle Assessment	18, 1, 72-85	10.2507/IJSIMM18(1)463	Vukelic D., Agarski B., Budak I., Simunovic G., Buchmeister B., Jakovljevic Z., Tadic B. (2019). Eco-Design of Fixtures Based on Life Cycle and Cost Assessment. *Int. Journal of Simulation Modelling*, Vol. 18, No. 1, p. 72-85
56	Gajic, D. B.; Mihic, S.; Dragan, D.; Petrovic, V. & Anisic, Z.	Simulation of Photogrammetry-Based 3D Data Acquisition	Simulation Software, 3D Data Acquisition, Photogrammetry, Human Body Scanning, Avatars	18, 1, 59-71	10.2507/IJSIMM18(1)460	Gajic D. B., Mihic S., Dragan D., Petrovic V., Anisic Z. (2019). Simulation of Photogrammetry-Based 3D Data Acquisition. *Int. Journal of Simulation Modelling*, Vol. 18, No. 1, p. 59-71
57	Vrecko, I.; Kovac, J.; Rupnik, B. & Gajsek, B.	Using Queuing Simulation Model in Production Process Innovations	Production Process, Assembly, Optimisation, Innovations, Discrete Event Simulation Model	18, 1, 47-58	10.2507/IJSIMM18(1)458	Vrecko I., Kovac J., Rupnik B., Gajsek B. (2019). Using Queuing Simulation Model in Production Process Innovations. *Int. Journal of Simulation Modelling*, Vol. 18, No. 1, p. 47-58
58	Oueida, S.; Kotb, Y.; Ionescu, S. & Militaru, G.	AMS: A New Platform for System Design and Simulation	Optimization, Petri Nets, Programming Language, Satisfaction Factors, Simulation	18,1, 33-46	10.2507/IJSIMM18(1)456	Oueida S., Kotb Y., Ionescu S., Militaru G. (2019). AMS: A New Platform for System Design and Simulation. *Int. Journal of Simulation Modelling*, Vol. 18, No. 1, p. 33-46
59	Trebuna, P.; Pekarcikova, M. & Edl, M.	Digital Value Stream Mapping Using the Tecnomatix Plant Simulation Software	Value Stream Mapping, Simulation Software, Discrete Event Simulation, Value Added	18, 1, 19-32	10.2507/IJSIMM18(1)455	Trebuna P., Pekarcikova M., Edl M. (2019). Digital Value Stream Mapping Using the Tecnomatix Plant Simulation Software. *Int. Journal of Simulation Modelling*, Vol. 18, No. 1, p. 19-32
60	Uzun Araz, O.; Eski, O. & Araz, C.	A Reactive Scheduling Approach Based on Fuzzy Inference for Hybrid Flowshop Systems	Hybrid Flowshop, Real-Time Scheduling, Fuzzy Inference System, Simulation	18, 1, 5-18	10.2507/IJSIMM18(1)448	Uzun Araz O., Eski O., Araz C. (2019). A Reactive Scheduling Approach Based on Fuzzy Inference for Hybrid Flowshop Systems. *Int. Journal of Simulation Modelling*, Vol. 18, No. 1, p. 5-18
1	He, P.	Optimization and Simulation of Remanufacturing Production Scheduling under Uncertainties	Uncertainties, Remanufacturing, Production Scheduling, Optimization, Simulation	17, 4, 734-743	10.2507/IJSIMM17(4)CO20	He P. (2018). Optimization and Simulation of Remanufacturing Production Scheduling under Uncertainties. *Int. Journal of Simulation Modelling*, Vol. 17, No. 4, p. 734-743

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2	Yang, X. P. & Gao, X. L.	Optimization of Dynamic and Multi-Objective Flexible Job-Shop Scheduling Based on Parallel Hybrid Algorithm	Production Scheduling, Multi-Objective Scheduling, Parallel Hybrid Algorithm, Multiple Disturbances, Optimization, Simulation	17, 4, 724-733	10.2507/IJSIMM17(4)CO19	Yang X. P., Gao X. L. (2018). Optimization of Dynamic and Multi-Objective Flexible Job-Shop Scheduling Based on Parallel Hybrid Algorithm. *Int. Journal of Simulation Modelling*, Vol. 17, No. 4, p. 724-733
3	Seng, D. W.; Li, J. W.; Fang, X. J.; Zhang, X. F. & Chen, J.	Low-Carbon Flexible Job-Shop Scheduling Based on Improved Nondominated Sorting Genetic Algorithm-II	Flexible Job-Shop Scheduling Problem (FJSP), Nondominated Sorting Genetic Algorithm-II (NSGA-II), Low-Carbon Scheduling	17, 4, 712-723	10.2507/IJSIMM17(4)CO18	Seng D. W., Li J. W., Fang X. J., Zhang X. F., Chen J. (2018). Low-Carbon Flexible Job-Shop Scheduling Based on Improved Nondominated Sorting Genetic Algorithm-II. *Int. Journal of Simulation Modelling*, Vol. 17, No. 4, p. 712-723
4	Chen, W. & Hao, Y. F.	Genetic Algorithm-Based Design and Simulation of Manufacturing Flow Shop Scheduling	Non-Dominated Sorting Genetic Algorithm (NSGA), Manufacturing Enterprises, Non-Compact Flow Shop, Multi-Objective Job Shop Scheduling	17, 4, 702-711	10.2507/IJSIMM17(4)CO17	Chen W., Hao Y. F. (2018). Genetic Algorithm-Based Design and Simulation of Manufacturing Flow Shop Scheduling. *Int. Journal of Simulation Modelling*, Vol. 17, No. 4, p. 702-711
5	Xue, P.; Jiang, C. H.; Wei, W. & Lin, J.	Optimization of the Intelligent Workshop Control Based on the Improved Group Leadership Optimization Algorithm	Intelligent Workshop, Optimization of Scheduling Control, Group Leadership Optimization Algorithm, Penalty Function	17, 4, 690-701	10.2507/IJSIMM17(4)CO16	Xue P., Jiang C. H., Wei W., Lin J. (2018). Optimization of the Intelligent Workshop Control Based on the Improved Group Leadership Optimization Algorithm. *Int. Journal of Simulation Modelling*, Vol. 17, No. 4, p. 690-701
6	Huang, X.-Q.; Tang, X.-T. & Chen, L.	Simulation for Trajectory Tracking of Multi-Flexible-Link Space Robot with Deadzone	Multi-Flexible-Link Space Robot, Deadzone, Trajectory Tracking, Flexible Vibration Suppression	17, 4, 677-689	10.2507/IJSIMM17(4)459	Huang X.-Q., Tang X.-T., Chen L. (2018). Simulation for Trajectory Tracking of Multi-Flexible-Link Space Robot with Deadzone. *Int. Journal of Simulation Modelling*, Vol. 17, No. 4, p. 677-689
7	Kovacic, M. & Brezocnik, M.	Reduction of Surface Defects and Optimization of Continuous Casting of 70MnVS4 Steel	Steel, Continuous Casting, Surface Defects, Casting Parameters, Modelling and Optimization, Genetic Programming	17, 4, 667-676	10.2507/IJSIMM17(4)457	Kovacic M., Brezocnik M. (2018). Reduction of Surface Defects and Optimization of Continuous Casting of 70MnVS4 Steel. *Int. Journal of Simulation Modelling*, Vol. 17, No. 4, p. 667-676
8	Billenstein, D.; Dinkel, C. & Rieg, F.	Automated Topological Clustering of Design Proposals in Structural Optimisation	Evaluation Tool, Topological Clustering, Design Automation, Simulation Based Design	17, 4, 657-666	10.2507/IJSIMM17(4)454	Billenstein D., Dinkel C., Rieg F. (2018). Automated Topological Clustering of Design Proposals in Structural Optimisation. *Int. Journal of Simulation Modelling*, Vol. 17, No. 4, p. 657-666
9	Gao, K. D.; Xu, W. B.; Zhang, X. & Wang, G.	Analysis of Spiral Aggregate Device on the Sump Cleaning Machine by Discrete Element Method	Discrete Element Method, Sump Cleaning Machine, Spiral Aggregate, Conveyor	17, 4, 643-656	10.2507/IJSIMM17(4)453	Gao K. D., Xu W. B., Zhang X., Wang G. (2018). Analysis of Spiral Aggregate Device on the Sump Cleaning Machine by Discrete Element Method. *Int. Journal of Simulation Modelling*, Vol. 17, No. 4, p. 643-656
10	Takakuwa, S.; Yang, W. & Nagatsuka, H.	Learning the Procedure on Takt Production of TPS by Methods Engineering and Simulation	Simulation Education, Takt Production, Toyota Production System (TPS), Work Measurement Technique	17, 4, 633-642	10.2507/IJSIMM17(4)452	Takakuwa S., Yang W., Nagatsuka H. (2018). Learning the Procedure on Takt Production of TPS by Methods Engineering and Simulation. *Int. Journal of Simulation Modelling*, Vol. 17, No. 4, p. 633-642
11	Anh, N. T.; Anh, N. H. & Dat, N. T.	Development of a Framework for Ballistic Simulation	Trajectory, Non-linear Dynamics, Ballistic Simulation, Environment Effect, Multi-Fidelity Analysis, Flight Simulation	17, 4, 623-632	10.2507/IJSIMM17(4)451	Anh N. T., Anh N. H., Dat N. T. (2018). Development of a Framework for Ballistic Simulation. *Int. Journal of Simulation Modelling*, Vol. 17, No. 4, p. 623-632
12	Duplakova, D.; Teliskova, M.; Duplak, J.; Torok, J.; Hatala, M.; Steranka, J. & Radchenko, S.	Determination of Optimal Production Process Using Scheduling and Simulation Software	Simulation Software, Scheduling Software, Time Efficiency, Economic Efficiency	17, 4, 609-622	10.2507/IJSIMM17(4)447	Duplakova D., Teliskova M., Duplak J., Torok J., Hatala M., Steranka J., Radchenko S. (2018). Determination of Optimal Production Process Using Scheduling and Simulation Software. *Int. Journal of Simulation Modelling*, Vol. 17, No. 4, p. 609-622
13	Bardzinski, P. J.; Walker, P.; Krol, R. & Kawalec, W.	Simulation of Random Tagged Ore Flow through the Bunker in a Belt Conveying System	Discrete Elements Method, FlexSim, Empirical Model, RFID, Ore Transport, Ore Bunker	17, 4, 597-608	10.2507/IJSIMM17(4)445	Bardzinski P. J.; Walker P.; Krol R., Kawalec W. (2018). Simulation of Random Tagged Ore Flow through the Bunker in a Belt Conveying System. *Int. Journal of Simulation Modelling*, Vol. 17, No. 4, p. 597-608
14	Straka, M.; Khouri, S.; Rosova, A.; Caganova, D. & Culkova, K.	Utilization of Computer Simulation for Waste Separation Design as a Logistics System	Computer Simulation, EXTENDSIM, Waste Separation, Logistics, Design	17, 4, 583-596	10.2507/IJSIMM17(4)444	Straka M.; Khouri S., Rosova A., Caganova D., Culkova K. (2018). Utilization of Computer Simulation for Waste Separation Design as a Logistics System. *Int. Journal of Simulation Modelling*, Vol. 17, No. 4, p. 583-596
15	Murillo-Marrodan, A.; Garcia, E. & Cortes, F.	A Study of Friction Model Performance in a Skew Rolling Process Numerical Simulation	Friction Model, Friction Law, Metal Forming, Skew Rolling Mill, Numerical Analysis	17, 4, 569-582	10.2507/IJSIMM17(4)441	Murillo-Marrodan A., Garcia E., Cortes F. (2018). A Study of Friction Model Performance in a Skew Rolling Process Numerical Simulation. *Int. Journal of Simulation Modelling*, Vol. 17, No. 4, p. 569-582
16	Yan, R.; Li, M. M. & Wei, W. C.	Integrated Production Scheduling and Distribution Planning with a Two-Stage Semi-Continuous Flow Shop Environment	Operational Integrated Production-Distribution Scheduling, Two-Stage Production Process, Semi-Flexible Flow Shop, Sequence Dependent Setup	17, 3, 553-561	10.2507/IJSIMM17(3)CO15	Yan R., Li M. M., Wei W. C. (2018). Integrated Production Scheduling and Distribution Planning with a Two-Stage Semi-Continuous Flow Shop Environment. *Int. Journal of Simulation Modelling*, Vol. 17, No. 3, p. 553-561
17	Chen, Q.; Deng, L. F. & Wang, H. M.	Optimization of Multi-Task Job-Shop Scheduling Based on Uncertainty Theory Algorithm	Uncertainty Theory, Multi-Task Job-Shop Scheduling, Scheduling Optimization, Economic Effectiveness	17, 3, 543-552	10.2507/IJSIMM17(3)CO14	Chen Q., Deng L. F., Wang H. M. (2018). Optimization of Multi-Task Job-Shop Scheduling Based on Uncertainty Theory Algorithm. *Int. Journal of Simulation Modelling*, Vol. 17, No. 3, p. 543-552
18	Zhang, H. P.; Ye, J. H.; Yang, X. P.; Muruve, N. W. & Wang, J. T.	Modified Binary Particle Swarm Optimization Algorithm in Lot-Splitting Scheduling Involving Multiple Techniques	Multi-Technique, Multi-Process Flexible Job-Shop Scheduling Problem, Modified Binary Particle Swarm Optimization Algorithm, Largescale Batch	17, 3, 534-542	10.2507/IJSIMM17(3)CO13	Zhang H. P., Ye J. H., Yang X. P., Muruve N. W., Wang J. T. (2018). Modified Binary Particle Swarm Optimization Algorithm in Lot-Splitting Scheduling Involving Multiple Techniques. *Int. Journal of Simulation Modelling*, Vol. 17, No. 3, p. 534-542
19	Zeng, Q. L.; Wang, K. & Wan, L. R.	Modelling of Straight Bevel Gear Transmission and Simulation of Its Meshing Performance	Straight Bevel Gear, Gear Planning, Tooth Surface Equation, Parametric Modelling, Transient Meshing Analysis	17, 3, 521-533	10.2507/IJSIMM17(3)CO12	Zeng Q. L., Wang K., Wan L. R. (2018). Modelling of Straight Bevel Gear Transmission and Simulation of Its Meshing Performance. *Int. Journal of Simulation Modelling*, Vol. 17, No. 3, p. 521-533
20	Lin, C. & Yang, B.	Simulation of Flow Line Scheduling of Production Enterprises Based on Improved Artificial Fish Swarm Algorithm	Flow Line Scheduling, Improved Artificial Fish Swarm Algorithm (IAFSA), Lean Production Mode	17, 3, 512-520	10.2507/IJSIMM17(3)CO11	Lin C., Yang B. (2018). Simulation of Flow Line Scheduling of Production Enterprises Based on Improved Artificial Fish Swarm Algorithm. *Int. Journal of Simulation Modelling*, Vol. 17, No. 3, p. 512-520

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21	Zhang, X.; Wang, T.; Jiang, S. B.; Xu, H. G.; Zhang, Y. N.	Modelling and Simulation of Pouch Lithium-Ion Battery Thermal Management Using Cold Plate	Modelling and Simulation, Lithium-Ion Battery, Thermal Management, Cold Plate, Mass Flow Rate	17, 3, 498-511	10.2507/IJSIMM17(3)449	Zhang X., Wang T., Jiang S. B., Xu H. G., Zhang Y. N. (2018). Modelling and Simulation of Pouch Lithium-Ion Battery Thermal Management Using Cold Plate. *Int. Journal of Simulation Modelling*, Vol. 17, No. 3, p. 498-511
22	Burinskiene, A.; Lorenc, A. & Lerher, T.	A Simulation Study for the Sustainability and Reduction of Waste in Warehouse Logistics	Logistics, Warehousing, Discrete Event Simulation, Sustainability, Performance Analysis	17, 3, 485-497	10.2507/IJSIMM17(3)446	Burinskiene A., Lorenc A., Lerher T. (2018). A Simulation Study for the Sustainability and Reduction of Waste in Warehouse Logistics. *Int. Journal of Simulation Modelling*, Vol. 17, No. 3, p. 485-497
23	Shi, H. X.; Chai, L. P.; Su, X. Z. & Jaini, R.	Performance Optimization of Energy Recovery Device Based on PAT with Guide Vane	Pump as Turbine (PAT), Impeller with Forward-Curved Blades, Numerical Simulation, Parameter Optimization	17, 3, 472-484	10.2507/IJSIMM17(3)443	Shi H. X., Chai L. P., Su X. Z., Jaini R. (2018). Performance Optimization of Energy Recovery Device Based on PAT with Guide Vane. *Int. Journal of Simulation Modelling*, Vol. 17, No. 3, p. 472-484
24	Suligoj, F.; Jerbic, B.; Svaco, M. & Sekoranja, B.	Fully Automated Point-Based Robotic Neurosurgical Patient Registration Procedure	Biomedical Imaging, Medical Robotics, Iterative Algorithms, Iterative Closest Point Algorithm, RONNA	17, 3, 458-471	10.2507/IJSIMM17(3)442	Suligoj F., Jerbic B., Svaco M., Sekoranja B. (2018). Fully Automated Point-Based Robotic Neurosurgical Patient Registration Procedure. *Int. Journal of Simulation Modelling*, Vol. 17, No. 3, p. 458-471
25	Fedorko, G.; Molnar, V.; Honus, S.; Neradilova, H. & Kampf, R.	The Application of Simulation Model of a Milk Run to Identify the Occurrence of Failures	AGV Simulation, Milk Run, Performance Efficiency, Delivery, Failures	17, 3, 444-457	10.2507/IJSIMM17(3)440	Fedorko G., Molnar V., Honus S., Neradilova H., Kampf R. (2018). The Application of Simulation Model of a Milk Run to Identify the Occurrence of Failures. *Int. Journal of Simulation Modelling*, Vol. 17, No. 3, p. 444-457
26	Klodawski, M.; Jachimowski, R.; Jacyna-Golda, I. & Izdebski, M.	Simulation Analysis of Order Picking Efficiency with Congestion Situations	Warehousing, Order Picking, Congestion, Simulation, Performance Analysis	17, 3, 431-443	10.2507/IJSIMM17(3)438	Klodawski M., Jachimowski R., Jacyna-Golda I., Izdebski M. (2018). Simulation Analysis of Order Picking Efficiency with Congestion Situations. *Int. Journal of Simulation Modelling*, Vol. 17, No. 3, p. 431-443
27	Horvat, D.; Wydra, S. & Lerch, C. M.	Modelling and Simulating the Dynamics of the European Demand for Bio-Based Plastics	System Dynamics, Bio-Based Plastics, Scaling and Learning Effects, Feedstock Price, Price Competition	17, 3, 419-430	10.2507/IJSIMM17(3)435	Horvat D., Wydra S., Lerch C. M. (2018). Modelling and Simulating the Dynamics of the European Demand for Bio-Based Plastics. *Int. Journal of Simulation Modelling*, Vol. 17, No. 3, p. 419-430
28	Roca-Gonzalez, J. L.; Vera-Lopez, J. A. & Rodriguez-Bermudez, G.	Analysis of Patent #US2014/0319274A1: a Case Study of Simulations for New Designs Review	Patent Analysis, Aircraft Design, Improvement Characterization	17, 3, 405-418	10.2507/IJSIMM17(3)433	Roca-Gonzalez J. L., Vera-Lopez J. A., Rodriguez-Bermudez G. (2018). Analysis of Patent #US2014/0319274A1: a Case Study of Simulations for New Designs Review. *Int. Journal of Simulation Modelling*, Vol. 17, No. 3, p. 405-418
29	Karakasic, M.; Zadnik, Z.; Kljajin, M. & Duhovnik, J.	The Matrix of Function and Functionality in Product Development Process	Product Development, Conceptual Design, Design Process, Function, Functionality, MFF (Matrix of Function and Functionality)	17, 3, 391-404	10.2507/IJSIMM17(3)432	Karakasic M., Zadnik Z., Kljajin M., Duhovnik J. (2018). The Matrix of Function and Functionality in Product Development Process. *Int. Journal of Simulation Modelling*, Vol. 17, No. 3, p. 391-404
30	Vieira, A. A. C.; Dias, L. M. S.; Santos, M. Y.; Pereira, G. A. B. & Oliveira, J. A.	Setting an Industry 4.0 Research and Development Agenda for Simulation – a Literature Review	Discrete-Event Simulation, Industry 4.0, Visualization, Data Exchange Automation, Automatic Generation, Research and Development, Literature Rev.	17, 3, 377-390	10.2507/IJSIMM17(3)429	Vieira A. A. C., Dias L. M. S., Santos M. Y., Pereira G. A. B., Oliveira J. A. (2018). Setting an Industry 4.0 Research and Development Agenda for Simulation – a Literature Review. *Int. Journal of Simulation Modelling*, Vol. 17, No. 3, p. 377-390
31	Li, Y.; Shi, S. Y. & Huang, Q. D.	Three-Machine Job Shop Scheduling with Intermediate Transfer	Job Shop Scheduling, Heuristic Algorithm, Worst-Case Performance, Coordinated Scheduling	17, 2, 359-368	10.2507/IJSIMM17(2)CO10	Li Y., Shi S. Y., Huang Q. D. (2018). Three-Machine Job Shop Scheduling with Intermediate Transfer. *Int. Journal of Simulation Modelling*, Vol. 17, No. 2, p. 359-368
32	Li, H. Y.; Gui, C. & Xiao, K.	Simulation of Multivariate Scheduling Optimization for Open Production Line Based on Improved Genetic Algorithm	Production Line, Scheduling Optimization, Bottleneck Identification, Improved Genetic Algorithm, Computer Simulation, Multivariate	17, 2, 347-358	10.2507/IJSIMM17(2)CO9	Li H. Y., Gui C., Xiao K. (2018). Simulation of Multivariate Scheduling Optimization for Open Production Line Based on Improved Genetic Algorithm. *Int. Journal of Simulation Modelling*, Vol. 17, No. 2, p. 347-358
33	Hu, H. X.; Lei, W. X.; Gao, X. & Zhang, Y.	Job-Shop Scheduling Problem Based on Improved Cuckoo Search Algorithm	Job-Shop Scheduling Problem (JSP), Improved Cuckoo Search Algorithm (ICSA), Numerical Simulation	17, 2, 337-346	10.2507/IJSIMM17(2)CO8	Hu H. X., Lei W. X., Gao X., Zhang Y. (2018). Job-Shop Scheduling Problem Based on Improved Cuckoo Search Algorithm. *Int. Journal of Simulation Modelling*, Vol. 17, No. 2, p. 337-346
34	Li, L.	Mechanism Design and Motion Planning of Parallel-Chain Nonholonomic Manipulator	Nonholonomic, Parallel-Chain, Chain Transformation, Motion Planning	17, 2, 327-336	10.2507/IJSIMM17(2)CO7	Li L. (2018). Mechanism Design and Motion Planning of Parallel-Chain Nonholonomic Manipulator. *Int. Journal of Simulation Modelling*, Vol. 17, No. 2, p. 327-336
35	Dai, Y.; Wu, W.; Zhou, H. B.; Zhang, J. & Ma, F. Y.	Numerical Simulation and Optimization of Oil Jet Lubrication for Rotorcraft Meshing Gears	Rotorcraft High-Speed Meshing Gear, Oil Jet Lubrication, Two-Phase Flow Numerical Simulation, Spin-Flow Effect, Optimal Nozzle Position Layout	17, 2, 318-326	10.2507/IJSIMM17(2)CO6	Dai Y., Wu W., Zhou H. B., Zhang J., Ma F. Y. (2018). Numerical Simulation and Optimization of Oil Jet Lubrication for Rotorcraft Meshing Gears. *Int. Journal of Simulation Modelling*, Vol. 17, No. 2, p. 318-326
36	Deese, K.; Geilen, M. & Rieg F.	A Two-Step Smoothing Algorithm for an Automated Product Development Process	Smoothing, Structural Optimisation, Automated Product Development, Marching Cubes, Implicit Fairing	17, 2, 308-317	10.2507/IJSIMM17(2)437	Deese K., Geilen M., Rieg F. (2018). A Two-Step Smoothing Algorithm for an Automated Product Development Process. *Int. Journal of Simulation Modelling*, Vol. 17, No. 2, p. 308-317
37	Janekova, J.; Fabianova, J.; Izarikova, G.; Onofrejova, D. & Kovac, J.	Product Mix Optimization Based on Monte Carlo Simulation: A Case Study	Investment Efficiency, Production Planning, Computer Simulation, Optimisation	17, 2, 295-307	10.2507/IJSIMM17(2)436	Janekova J., Fabianova J., Izarikova G., Onofrejova D., Kovac J. (2018). Product Mix Optimization Based on Monte Carlo Simulation: A Case Study. *Int. Journal of Simulation Modelling*, Vol. 17, No. 2, p. 295-307
38	Vaisi, B.; Farughi, H. & Raissi, S.	Two-Machine Robotic Cell Sequencing under Different Uncertainties	Robotic Manufacturing Cell, Sequencing, Breakdowns, Multiple Part Type Production, Simulation, Data Envelopment Analysis	17, 2, 284-294	10.2507/IJSIMM17(2)434	Vaisi B., Farughi H., Raissi S. (2018). Two-Machine Robotic Cell Sequencing under Different Uncertainties. *Int. Journal of Simulation Modelling*, Vol. 17, No. 2, p. 284-294
39	Yan, H.; Li, Q.; Zhang, Y.; Shi, H. X. & Vnenkovskaia, V.	Optimization of Cavitating Flow Characteristics on RBSS of Waterjet Pumps	Waterjet Pump, Cavitation, Unsteady Flow, Performance Optimization	17, 2, 271-283	10.2507/IJSIMM17(2)427	Yan H., Li Q., Zhang Y., Shi H. X., Vnenkovskaia V. (2018). Optimization of Cavitating Flow Characteristics on RBSS of Waterjet Pumps. *Int. Journal of Simulation Modelling*, Vol. 17, No. 2, p. 271-283

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40	Katsios, D.; Xanthopoulos, A. S.; Koulouriotis, D. E. & Kiatipis, A.	A Simulation Optimisation Tool and Its Production/Inventory Control Application	JaamSim Discrete-Event Simulator, Simulation Optimisation Tool, Open Source Software, Multi-Objective Optimisation Algorithms, Just-In-Time M.	17, 2, 257-270	10.2507/IJSIMM17(2)425	Katsios D., Xanthopoulos A. S., Koulouriotis D. E., Kiatipis A. (2018). A Simulation Optimisation Tool and Its Production/Inventory Control Application. *Int. Journal of Simulation Modelling*, Vol. 17, No. 2, p. 257-270
41	Lu, Y. J.; Wang, L. J.; Yang, Q. & Ren, J. Y.	Analysis of Asphalt Pavement Mechanical Behaviour by Using a Tire-Pavement Coupling Model	Tire-Pavement Coupling Model, Tire Force, Pavement Mechanical Response	17, 2, 245-256	10.2507/IJSIMM17(2)423	Lu Y. J., Wang L. J., Yang Q., Ren J. Y. (2018). Analysis of Asphalt Pavement Mechanical Behaviour by Using a Tire-Pavement Coupling Model. *Int. Journal of Simulation Modelling*, Vol. 17, No. 2, p. 245-256
42	Moon, S.; Ji, W.; Moon, H. & Kim, D.	A Simulation of Order Resonance Phenomenon in a Supply Chain Triggered by Reinforcing Loop	Supply Chain, Resonance Phenomenon, Oligopolistic Competition, System Dynamics, Reinforcing Loop, Balancing Loop	17, 2, 231-244	10.2507/IJSIMM17(2)421	Moon S., Ji W., Moon H., Kim, D. (2018). A Simulation of Order Resonance Phenomenon in a Supply Chain Triggered by Reinforcing Loop. *Int. Journal of Simulation Modelling*, Vol. 17, No. 2, p. 231-244
43	Mrozek, K.	Simulation Study of Induction Heating of Multi-Metallic Injection Moulds	Injection Moulding, Induction Heating, Selective Heating, Multi-metallic Mould	17, 2, 220-230	10.2507/IJSIMM17(2)415	Mrozek K. (2018). Simulation Study of Induction Heating of Multi-Metallic Injection Moulds. *Int. Journal of Simulation Modelling*, Vol. 17, No. 2, p. 220-230
44	Gusel, L.; Rudolf, R. & Brezocnik, M.	Hardness Modelling of Deformed CW106C Alloy by a Genetic Programming	Cold Forming, Hardness, Alloy, Evolutionary Algorithms, Genetic Programming, Modelling	17, 2, 210-219	10.2507/IJSIMM17(2)414	Gusel L., Rudolf R., Brezocnik M. (2018). Hardness Modelling of Deformed CW106C Alloy by a Genetic Programming. *Int. Journal of Simulation Modelling*, Vol. 17, No. 2, p. 210-219
45	Khan, M. A. A. & Sheikh, A. K.	A Comparative Study of Simulation Software for Modelling Metal Casting Processes	Casting Simulation Software, Comparison, Casting Processes, Solution Methods, Casting Defects	17, 2, 197-209	10.2507/IJSIMM17(2)402	Khan M. A. A., Sheikh A. K. (2018). A Comparative Study of Simulation Software for Modelling Metal Casting Processes. *Int. Journal of Simulation Modelling*, Vol. 17, No. 2, p. 197-209
46	Wang, Y.; Cen, H. J. & Yang, O.	Optimal Configuration for Workshop Manufacturing System under Dual Resource Constraints	Job-Shop, Production Cycle, Capacity Restriction, Dual Resource, Optimization, Simulation	17, 1, 180-189	10.2507/IJSIMM17(1)CO5	Wang Y., Cen H. J., Yang O. (2018). Optimal Configuration for Workshop Manufacturing System under Dual Resource Constraints. *Int. Journal of Simulation Modelling*, Vol. 17, No. 1, p. 180-189
47	Duan, B.; Wang, J. C.; Lu, Z. H.; Zhang, G. X. & Zhang, C. H.	Parameter Analysis and Optimization of the Rotating Arc NG-GMAW Welding Process	NG-GMAW, Rotating Arc, Simulation Model, Parameters Optimization	17, 1, 170-179	10.2507/IJSIMM17(1)CO4	Duan B., Wang J. C., Lu Z. H., Zhang G. X., Zhang C. H. (2018). Parameter Analysis and Optimization of the Rotating Arc NG-GMAW Welding Process. *Int. Journal of Simulation Modelling*, Vol. 17, No. 1, p. 170-179
48	Jiang, P.; Ding, J. L. & Guo, Y.	Application and Dynamic Simulation of Improved Genetic Algorithm in Production Workshop Scheduling	Production Workshop Scheduling, Genetic Algorithm, Dynamic Model, Dynamic Simulation	17, 1, 159-169	10.2507/IJSIMM17(1)CO3	Jiang P., Ding J. L., Guo Y. (2018). Application and Dynamic Simulation of Improved Genetic Algorithm in Production Workshop Scheduling. *Int. Journal of Simulation Modelling*, Vol. 17, No. 1, p. 159-169
49	Zhong, Q.; Yang, H. & Tang, T.	Optimization Algorithm Simulation for Dual-Resource Constrained Job-Shop Scheduling	Job-Shop Scheduling, Dual-Resource Constraints, Compressed Time-Window Scheduling Strategy, Improved Branch Population Genetic Algorithm	17, 1, 147-158	10.2507/IJSIMM17(1)CO2	Zhong Q., Yang H., Tang T. (2018). Optimization Algorithm Simulation for Dual-Resource Constrained Job-Shop Scheduling. *Int. Journal of Simulation Modelling*, Vol. 17, No. 1, p. 147-158
50	Wang, W. M.; Li, D. B.; He, F. & Tong, Y. F.	Modelling and Optimization for a Selective Assembly Process of Parts with Non-Normal Distribution	Selective Assembly Process, Grouping Scheme, Modelling, Optimization	17, 1, 133-146	10.2507/IJSIMM17(1)CO1	Wang W. M., Li D. B., He F., Tong Y. F. (2018). Modelling and Optimization for a Selective Assembly Process of Parts with Non-Normal Distribution. *Int. Journal of Simulation Modelling*, Vol. 17, No. 1, p. 133-146
51	Petrovic, S.; Milosavljevic, P. & Lozanovic Sajic, J.	Rapid Evaluation of Maintenance Process Using Statistical Process Control and Simulation	Maintenance, Evaluation, Process Model, Simulation	17, 1, 119-132	10.2507/IJSIMM17(1)424	Petrovic S., Milosavljevic P., Lozanovic Sajic J. (2018). Rapid Evaluation of Maintenance Process Using Statistical Process Control and Simulation. *Int. Journal of Simulation Modelling*, Vol. 17, No. 1, p. 119-132
52	Straka, M.; Lenort, R.; Khouri, S. & Feliks, J.	Design of Large-Scale Logistics Systems Using Computer Simulation Hierarchic Structure	Discrete Event Simulation, Hierarchic Structure, Large-Scale Logistics System, Manufacturing	17, 1, 105-118	10.2507/IJSIMM17(1)422	Straka M., Lenort R., Khouri S., Feliks J. (2018). Design of Large-Scale Logistics Systems Using Computer Simulation Hierarchic Structure. *Int. Journal of Simulation Modelling*, Vol. 17, No. 1, p. 105-118
53	Ramadani, R.; Belsak, A.; Kegl, M.; Predan, J. & Pehan, S.	Topology Optimization Based Design of Lightweight and Low Vibration Gear Bodies	Gear Body, Lightweight Lattice Structure, Topology Optimization, Stress Reduction, Vibration Reduction	17, 1, 92-104	10.2507/IJSIMM17(1)419	Ramadani R., Belsak A., Kegl M., Predan J., Pehan S. (2018). Topology Optimization Based Design of Lightweight and Low Vibration Gear Bodies. *Int. Journal of Simulation Modelling*, Vol. 17, No. 1, p. 92-104
54	Jiang, S. B.; Zeng, Q. L.; Wang, G.; Gao, K. D.; Wang, Q. Y. & Hidenori, K.	Contact Analysis of Chain Drive in Scraper Conveyor Based on Dynamic Meshing Properties	Scraper Conveyor, Contact Analysis, Dynamic Properties, Chain Drive	17, 1, 81-91	10.2507/IJSIMM17(1)418	Jiang S. B., Zeng Q. L., Wang G., Gao K. D., Wang Q. Y., Hidenori K. (2018). Contact Analysis of Chain Drive in Scraper Conveyor Based on Dynamic Meshing Properties. *Int. Journal of Simulation Modelling*, Vol. 17, No. 1, p. 81-91
55	Zeng, X. T.; Meng, G. Y. & Zhou, J. H.	Analysis on the Pose and Dynamic Response of Hydraulic Support under Dual Impact Loads	Hydraulic Support, Dynamic Response, Impact Load, Pose Analysis	17, 1, 69-80	10.2507/IJSIMM17(1)412	Zeng X. T., Meng G. Y., Zhou J. H. (2018). Analysis on the Pose and Dynamic Response of Hydraulic Support under Dual Impact Loads. *Int. Journal of Simulation Modelling*, Vol. 17, No. 1, p. 69-80
56	Pagliares, R. M. & Hirata, C. M.	Mapping SPEM Process Specifications to Activity Cycle Diagrams	Software & Systems Process Engineering Meta-model (SPEM), Activity Cycle Diagrams (ACD), Automatic Model Generation, Discrete Event Sim.	17, 1, 55-68	10.2507/IJSIMM17(1)411	Pagliares R. M., Hirata C. M. (2018). Mapping SPEM Process Specifications to Activity Cycle Diagrams. *Int. Journal of Simulation Modelling*, Vol. 17, No. 1, p. 55-68
57	Balamurugan, T.; Karunamoorthy, L.; Arunkumar, N. & Santhosh, D.	Optimization of Inventory Routing Problem to Minimize Carbon Dioxide Emission	Inventory Routing, Homogeneous Vehicles, Carbon Dioxide Emission, Artificial Immune System	17, 1, 42-54	10.2507/IJSIMM17(1)410	Balamurugan T., Karunamoorthy L., Arunkumar N., Santhosh D. (2018). Optimization of Inventory Routing Problem to Minimize Carbon Dioxide Emission. *Int. Journal of Simulation Modelling*, Vol. 17, No. 1, p. 42-54
58	Saez-Mas, A.; Garcia-Sabater, J. P. & Morant-Llorca, J.	Using 4-Layer Architecture to Simulate Product and Information Flows in Manufacturing Systems	Discrete Event Simulation (DES), Material Handling System (MHS), Manufacturing System, Automobile Assembly Plant, Simulation Approach	17, 1, 30-41	10.2507/IJSIMM17(1)408	Saez-Mas A., Garcia-Sabater J. P., Morant-Llorca J. (2018). Using 4-Layer Architecture to Simulate Product and Information Flows in Manufacturing Systems. *Int. Journal of Simulation Modelling*, Vol. 17, No. 1, p. 30-41

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59	Matejic, M.; Tadic, B.; Lazarevic, M.; Misic, M. & Vukelic, D.	Modelling and Simulation of a Novel Modular Fixture for a Flexible Manufacturing System	Modular Fixture, Fixture Layout, Fixture Modelling, Fixture Simulation	17, 1, 18-29	10.2507/IJSIMM17(1)407	Matejic M., Tadic B., Lazarevic M., Misic M., Vukelic D. (2018). Modelling and Simulation of a Novel Modular Fixture for a Flexible Manufacturing System. *Int. Journal of Simulation Modelling*, Vol. 17, No. 1, p. 18-29
60	Simon, E.; Oyekan, J.; Hutabarat, W.; Tiwari, A. & Turner, C. J.	Adapting Petri Nets to DES: Stochastic Modelling of Manufacturing Systems	Petri Net, Discrete-Event Simulation, Stochastic Modelling, Manufacturing Plant Layout	17, 1, 5-17	10.2507/IJSIMM17(1)403	Simon E., Oyekan J., Hutabarat W., Tiwari A., Turner C. J. (2018). Adapting Petri Nets to DES: Stochastic Modelling of Manufacturing Systems. *Int. Journal of Simulation Modelling*, Vol. 17, No. 1, p. 5-17