Ratna Babu Chinnam

List of Publications by Year
in descending order

		201674	175258
92	3,005	27	52
papers	citations	h-index	g-index
92	92	92	2928
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Two-Stage Stochastic Choice Modeling Approach for Electric Vehicle Charging Station Network Design in Urban Communities. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 3038-3053.	8.0	28
2	SPA-GAN: Spatial Attention GAN for Image-to-Image Translation. IEEE Transactions on Multimedia, 2021, 23, 391-401.	7.2	100
3	Proactive coordination of inpatient bed management to reduce emergency department patient boarding. International Journal of Production Economics, 2021, 231, 107842.	8.9	7
4	Managing access to primary care clinics using scheduling templates. Health Care Management Science, 2021, 24, 482-498.	2.6	3
5	Impact of deep-tier visibility on effective resilience assessment of supply networks. International Journal of Production Economics, 2021, 241, 108254.	8.9	12
6	Prediction of emergency department patient disposition decision for proactive resource allocation for admission. Health Care Management Science, 2020, 23, 339-359.	2.6	19
7	Appointment Scheduling at Outpatient Clinics Using Two-Stage Stochastic Programming Approach. IEEE Access, 2020, 8, 175297-175305.	4.2	7
8	Pre-manufacturing Portfolio Management Decisions in the Defense Industry. , 2020, , .		0
9	Balancing Pragmatism and Values in Business Decision Making. , 2020, , .		3
10	Decision-Making Dynamics in the Defense Industry During Work From Home Circumstances. IEEE Engineering Management Review, 2020, 48, 44-54.	1.3	3
11	An HMM and polynomial regression based approach for remaining useful life and health state estimation of cutting tools. Computers and Industrial Engineering, 2019, 128, 1008-1014.	6.3	76
12	A Stochastic Programming Approach for Electric Vehicle Charging Network Design. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 1870-1882.	8.0	54
13	Data-driven analytics for benchmarking and optimizing the performance of automotive dealerships. International Journal of Production Economics, 2019, 213, 69-80.	8.9	11
14	Product design and manufacturing process based ontology for manufacturing knowledge reuse. Journal of Intelligent Manufacturing, 2019, 30, 905-916.	7.3	68
15	Promoting sustainability of automotive products through strategic assortment planning. European Journal of Operational Research, 2018, 269, 272-285.	5.7	20
16	Observational data-driven modeling and optimization of manufacturing processes. Expert Systems With Applications, 2018, 93, 456-464.	7.6	43
17	Optimization of strategic planning processes for configurable products. Journal of the Operational Research Society, 2018, 69, 1834-1853.	3.4	7
18	Product development resilience through setâ€based design. Systems Engineering, 2018, 21, 490-500.	2.7	17

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19	Facing the Inevitable. American Journal of Clinical Pathology, 2018, 149, 484-498.	0.7	5
20	An unpaired pickup and delivery problem with time dependent assignment costs: Application in air cargo transportation. European Journal of Operational Research, 2017, 263, 188-202.	5.7	13
21	Optimal Routing for Plug-In Hybrid Electric Vehicles. Transportation Science, 2017, 51, 1304-1325.	4.4	22
22	Dynamic routing for milk-run tours with time windows in stochastic time-dependent networks. Transportation Research, Part E: Logistics and Transportation Review, 2017, 97, 251-267.	7.4	26
23	A mutual information based online evolving clustering approach and its applications. Evolving Systems, 2017, 8, 179-191.	3.9	3
24	Bayesian approach to hazard rate models for early detection of warranty and reliability problems using upstream supply chain information. International Journal of Production Economics, 2017, 193, 316-331.	8.9	14
25	Hazard rate models for core return modeling in auto parts remanufacturing. International Journal of Production Economics, 2017, 183, 354-361.	8.9	27
26	Online scheduling and pricing for electric vehicle charging. IISE Transactions, 2017, 49, 178-193.	2.4	14
27	Soft Boundary Approach for Unsupervised Gesture Segmentation in Robotic-Assisted Surgery. IEEE Robotics and Automation Letters, 2017, 2, 171-178.	5.1	32
28	Developing innovation capability in a mass production organization. Journal of Enterprise Transformation, 2017, 7, 116-138.	1.0	2
29	Hierarchical time-dependent shortest path algorithms for vehicle routing under ITS. IIE Transactions, 2016, 48, 158-169.	2.1	13
30	Optimal soft-order revisions under demand and supply uncertainty and upstream information. International Journal of Production Economics, 2016, 182, 14-25.	8.9	14
31	Simulation platform for anticipative plant-level maintenance decision support system. International Journal of Production Research, 2016, 54, 1785-1803.	7.5	14
32	Directions for instilling economic and environmental sustainability across product supply chains. Journal of Cleaner Production, 2016, 112, 2066-2078.	9.3	45
33	An energy modeling and evaluation approach for machine tools using generalized stochastic Petri Nets. Journal of Cleaner Production, 2016, 113, 523-531.	9.3	22
34	Integrated production and logistics planning: Contract manufacturing and choice of air/surface transportation. European Journal of Operational Research, 2015, 247, 113-123.	5.7	27
35	A cost sensitive inpatient bed reservation approach to reduce emergency department boarding times. Health Care Management Science, 2015, 18, 67-85.	2.6	27
36	Focused factories: a Bayesian framework for estimating non-product related investment. International Journal of Production Research, 2015, 53, 3917-3933.	7.5	4

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37	Supply chain focus dependent sensitivity of the point of product differentiation. International Journal of Production Research, 2014, 52, 4984-5001.	7.5	11
38	Assortment planning of automotive products with considerations for economic and environmental impacts of technology selection. Journal of Cleaner Production, 2014, 70, 132-144.	9.3	17
39	Efficient exact optimization of multi-objective redundancy allocation problems in series-parallel systems. Reliability Engineering and System Safety, 2013, 111, 154-163.	8.9	48
40	Remanufacturing Decision-Making Framework (RDMF): research validation using the analytical hierarchical process. Journal of Cleaner Production, 2013, 40, 212-220.	9.3	132
41	Effects of traffic network dynamics on hierarchical community-based representations of large road networks. , 2012, , .		2
42	Dynamic routing of time-sensitive air cargo using real-time information. Transportation Research, Part E: Logistics and Transportation Review, 2012, 48, 355-372.	7.4	28
43	Hazard rate models for early detection of reliability problems using information from warranty databases and upstream supply chain. International Journal of Production Economics, 2012, 139, 180-195.	8.9	28
44	The bullwhip effect in capacitated supply chains with consideration for product life-cycle aspects. International Journal of Production Economics, 2012, 136, 318-331.	8.9	54
45	Dynamic routing under recurrent and non-recurrent congestion using real-time ITS information. Computers and Operations Research, 2012, 39, 358-373.	4.0	60
46	State space reduction in modeling traffic network dynamics for dynamic routing under ITS. , 2011, , .		2
47	Role of hidden-Markov models for autonomous diagnostics of cutting tools. , 2011, , .		0
48	mr2PSO: A maximum relevance minimum redundancy feature selection method based on swarm intelligence for support vector machine classification. Information Sciences, 2011, 181, 4625-4641.	6.9	250
49	Supply chain focus dependent supplier selection problem. International Journal of Production Economics, 2011, 129, 204-216.	8.9	52
50	A Software Agent-Component Based Framework for Multi-Agent Supply Chain Modelling and Simulation. International Journal of Modelling and Simulation, 2010, 30, 155-171.	3.3	11
51	Aftermarket remanufacturing strategic planning decision-making framework: theory & practice. Journal of Cleaner Production, 2010, 18, 1575-1586.	9.3	95
52	Health-State Estimation and Prognostics in Machining Processes. IEEE Transactions on Automation Science and Engineering, 2010, 7, 581-597.	5.2	122
53	An Industrial Strength Novelty Detection Framework for Autonomous Equipment Monitoring and Diagnostics. IEEE Transactions on Industrial Informatics, 2010, 6, 767-779.	11.3	60
54	Remanufacturing for the automotive aftermarket-strategic factors: literature review and future research needs. Journal of Cleaner Production, 2009, 17, 1163-1174.	9.3	230

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55	Metamodels for variable importance decomposition with applications to probabilistic engineering design. Computers and Industrial Engineering, 2009, 57, 996-1007.	6.3	25
56	Autonomous diagnostics and prognostics in machining processes through competitive learning-driven HMM-based clustering. International Journal of Production Research, 2009, 47, 6739-6758.	7.5	27
57	A framework for developing a CSCW environment to improve concept-based decision making. International Journal of Collaborative Enterprise, 2009, 1, 39.	0.2	0
58	Online qualitative nugget classification by using a linear vector quantization neural network for resistance spot welding. International Journal of Advanced Manufacturing Technology, 2008, 36, 237-248.	3.0	45
59	General support vector representation machine for one-class classification of non-stationary classes. Pattern Recognition, 2008, 41, 3021-3034.	8.1	48
60	Robust kernel distance multivariate control chart using support vector principles. International Journal of Production Research, 2008, 46, 5075-5095.	7.5	45
61	Hidden-Markov model based sequential clustering for autonomous diagnostics. , 2008, , .		5
62	Prediction of drill-bit breakage from degradation signals using Mahalanobis-Taguchi system analysis. International Journal of Industrial and Systems Engineering, 2008, 3, 134.	0.2	23
63	Design and Analysis of Agents for Supply Chain Management: Experiences From the Trading Agent Competition. International Journal of Modelling and Simulation, 2008, 28, 448-461.	3.3	0
64	Automotive Manufacturing: Intelligent Resistance Welding. Studies in Computational Intelligence, 2008, , 219-235.	0.9	3
65	Empirical prediction limit estimation methods for feed-forward neural networks. International Journal of General Systems, 2007, 36, 221-236.	2.5	2
66	A Quality-Based Business Model for Determining Non-product Investment: A Case Study From a Ford Automotive Engine Plant. EMJ - Engineering Management Journal, 2007, 19, 41-56.	2.3	2
67	Design reuse framework: a perspective for lean development. International Journal of Product Development, 2007, 4, 485.	0.2	11
68	MASCF: A generic process-centered methodological framework for analysis and design of multi-agent supply chain systems. Computers and Industrial Engineering, 2007, 53, 584-609.	6.3	43
69	Supply chain focus dependent safety stock placement. Flexible Services and Manufacturing Journal, 2007, 19, 463-485.	0.4	11
70	Computation Intelligence in Online Reliability Monitoring. Studies in Computational Intelligence, 2007, , 223-260.	0.9	3
71	Intelligent Constant Current Control for Resistance Spot Welding. , 2006, , .		9
72	A performance comparison tool for supply chain management. International Journal of Logistics Systems and Management, 2006, 2, 342.	0.2	18

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73	An Autonomous Diagnostics and Prognostics Framework for Condition-Based Maintenance. , 2006, , .		8
74	Hierarchical HMMs for Autonomous Diagnostics and Prognostics. , 2006, , .		8
75	HMMs for diagnostics and prognostics in machining processes. International Journal of Production Research, 2005, 43, 1275-1293.	7.5	243
76	A neuro-fuzzy approach for estimating mean residual life in condition-based maintenance systems. International Journal of Materials and Product Technology, 2004, 20, 166.	0.2	66
77	A fuzzy logic based approach to reliability improvement estimation during product development. Reliability Engineering and System Safety, 2003, 80, 63-74.	8.9	103
78	Online Reliability Estimation of Physical Systems Using Neural Networks and Wavelets. International Journal of Smart Engineering System Design, 2002, 4, 253-264.	0.2	24
79	Support vector machines for recognizing shifts in correlated and other manufacturing processes. International Journal of Production Research, 2002, 40, 4449-4466.	7.5	69
80	On-line reliability estimation for individual components using statistical degradation signal models. Quality and Reliability Engineering International, 2002, 18, 53-73.	2.3	48
81	Intelligent quality controllers for on-line parameter design. IEEE Transactions on Semiconductor Manufacturing, 2000, 13, 481-491.	1.7	7
82	Intelligent Quality Controllers for On-Line Parameter Design. Handbook Series for Mechanical Engineering, 2000, , .	0.0	0
83	On-line reliability estimation of individual components, using degradation signals. IEEE Transactions on Reliability, 1999, 48, 403-412.	4.6	55
84	Prediction limit estimation for neural network models. IEEE Transactions on Neural Networks, 1998, 9, 1515-1522.	4.2	8
85	Performance Reliability Prediction Of Tools In Metal Cutting Using The Validity Index Neural Network. International Journal of Modelling and Simulation, 1996, 16, 210-217.	3.3	3
86	Empirical prediction limit estimation methods for feed-forward neural networks. , 0, , .		0
87	Using support vector machines for recognizing shifts in correlated manufacturing processes. , 0, , .		1
88	Autonomous diagnostics and prognostics through competitive learning driven HMM-based clustering. , 0, , .		25
89	Non-stationary data domain description using weighted support vector novelty detector. , 0, , .		0
90	Dynamic bayesian networks for machine diagnostics: hierarchical hidden markov models vs. competitive learning. , 0, , .		11

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91	Hierarchical HMMs for Autonomous Diagnostics and Prognostics. , 0, , .		0
92	An Autonomous Diagnostics and Prognostics Framework for Condition-Based Maintenance. , 0, , .		2