Anna Nagurney

List of Publications by Year
in descending order

250 papers	11,115 citations	30070 54 h-index	42399 92 g-index
259 all docs	259 docs citations	259 times ranked	3972 citing authors

#	Article	IF	Citations
1	On a Paradox of Traffic Planning. Transportation Science, 2005, 39, 446-450.	4.4	435
2	A supply chain network equilibrium model. Transportation Research, Part E: Logistics and Transportation Review, 2002, 38, 281-303.	7.4	389
3	Network Economics. Advances in Computational Economics, 1999, , .	0.1	346
4	Dynamical systems and variational inequalities. Annals of Operations Research, 1993, 44, 7-42.	4.1	335
5	Projected Dynamical Systems and Variational Inequalities with Applications. Profiles in Operations Research, 1996, , .	0.4	335
6	Network Economics: A Variational Inequality Approach. Advances in Computational Economics, 1993, , .	0.1	334
7	Competitive food supply chain networks with application to fresh produce. European Journal of Operational Research, 2013, 224, 273-282.	5.7	255
8	Reverse supply chain management and electronic waste recycling: a multitiered network equilibrium framework for e-cycling. Transportation Research, Part E: Logistics and Transportation Review, 2005, 41, 1-28.	7.4	243
9	Supply chain networks, electronic commerce, and supply side and demand side risk. European Journal of Operational Research, 2005, 164, 120-142.	5.7	213
10	Sustainable fashion supply chain management under oligopolistic competition and brand differentiation. International Journal of Production Economics, 2012, 135, 532-540.	8.9	205
11	A supply chain network equilibrium model with random demands. European Journal of Operational Research, 2004, 156, 194-212.	5.7	187
12	Projected Dynamical Systems in the Formulation, Stability Analysis, and Computation of Fixed-Demand Traffic Network Equilibria. Transportation Science, 1997, 31, 147-158.	4.4	170
13	Oligopolistic and competitive behavior of spatially separated markets. Regional Science and Urban Economics, 1987, 17, 245-254.	2.6	166
14	Supply chain network operations management of a blood banking system with cost and risk minimization. Computational Management Science, 2012, 9, 205-231.	1.3	164
15	Sensitivity analysis for the asymmetric network equilibrium problem. Mathematical Programming, 1984, 28, 174-184.	2.4	135
16	On some traffic equilibrium theory paradoxes. Transportation Research Part B: Methodological, 1984, 18, 101-110.	5.9	135
17	On the stability of projected dynamical systems. Journal of Optimization Theory and Applications, 1995, 85, 97-124.	1.5	134
18	A multiclass, multicriteria traffic network equilibrium model with elastic demand. Transportation Research Part B: Methodological, 2002, 36, 445-469.	5.9	130

#	Article	IF	Citations
19	A supply chain generalized network oligopoly model for pharmaceuticals under brand differentiation and perishability. Transportation Research, Part E: Logistics and Transportation Review, 2012, 48, 762-780.	7.4	123
20	On the local and global stability of a travel route choice adjustment process. Transportation Research Part B: Methodological, 1996, 30, 245-262.	5.9	122
21	Congested urban transportation networks and emission paradoxes. Transportation Research, Part D: Transport and Environment, 2000, 5, 145-151.	6.8	110
22	Supply chain outsourcing under exchange rate risk and competition. Omega, 2011, 39, 539-549.	5.9	107
23	Sensitivity Analysis for the General Spatial Economic Equilibrium Problem. Operations Research, 1984, 32, 1069-1086.	1.9	105
24	Supply chain game theory network modeling under labor constraints: Applications to the Covid-19 pandemic. European Journal of Operational Research, 2021, 293, 880-891.	5.7	104
25	A multiclass, multicriteria traffic network equilibrium model. Mathematical and Computer Modelling, 2000, 32, 393-411.	2.0	102
26	On the relationship between supply chain and transportation network equilibria: A supernetwork equivalence with computations. Transportation Research, Part E: Logistics and Transportation Review, 2006, 42, 293-316.	7.4	102
27	Supply chain supernetworks and environmental criteria. Transportation Research, Part D: Transport and Environment, 2003, 8, 185-213.	6.8	100
28	A competitive multiperiod supply chain network model with freight carriers and green technology investment option. European Journal of Operational Research, 2018, 266, 934-949.	5.7	100
29	Optimal supply chain network design and redesign at minimal total cost and with demand satisfaction. International Journal of Production Economics, 2010, 128, 200-208.	8.9	99
30	A network efficiency measure with application to critical infrastructure networks. Journal of Global Optimization, 2008, 40, 261-275.	1.8	96
31	COMPUTATIONAL COMPARISONS OF SPATIAL PRICE EQUILIBRIUM METHODS*. Journal of Regional Science, 1987, 27, 55-76.	3.3	88
32	Supply chain network design under profit maximization and oligopolistic competition. Transportation Research, Part E: Logistics and Transportation Review, 2010, 46, 281-294.	7.4	84
33	Global supply chain network dynamics with multicriteria decision-making under risk and uncertainty. Transportation Research, Part E: Logistics and Transportation Review, 2005, 41, 585-612.	7.4	82
34	Optimization of supply chain networks with inclusion of labor: Applications to COVID-19 pandemic disruptions. International Journal of Production Economics, 2021, 235, 108080.	8.9	81
35	Sustainable supply chain network design: a multicriteria perspective. International Journal of Sustainable Engineering, 2010, 3, 189-197.	3.5	80
36	A retrospective on Beckmann, McGuire and Winsten's Studies in the Economics of Transportation. Papers in Regional Science, 2005, 84, 85-103.	1.9	75

#	ARTICLE	IF	CITATIONS
37	A network efficiency measure for congested networks. Europhysics Letters, 2007, 79, 38005.	2.0	75
38	A Generalized Nash Equilibrium network model for post-disaster humanitarian relief. Transportation Research, Part E: Logistics and Transportation Review, 2016, 95, 1-18.	7.4	74
39	A unified network performance measure with importance identification and the ranking of network components. Optimization Letters, 2007, 2, 127-142.	1.6	70
40	A supply chain network game theory model of cybersecurity investments with nonlinear budget constraints. Annals of Operations Research, 2017, 248, 405-427.	4.1	70
41	Financial Networks. Advances in Spatial Science, 1997, , .	0.6	70
42	Fragile networks: identifying vulnerabilities and synergies in an uncertain age. International Transactions in Operational Research, 2012, 19, 123-160.	2.7	69
43	Supply chain network design for critical needs with outsourcing. Papers in Regional Science, 2011, 90, 123-142.	1.9	67
44	Supply Chain Networks and Electronic Commerce: A Theoretical Perspective. NETNOMICS: Economic Research and Electronic Networking, 2002, 4, 187-220.	0.9	66
45	Dynamic electric power supply chains and transportation networks: An evolutionary variational inequality formulation. Transportation Research, Part E: Logistics and Transportation Review, 2007, 43, 624-646.	7.4	64
46	Supply chain networks with global outsourcing and quick-response production under demand and cost uncertainty. Annals of Operations Research, 2013, 208, 251-289.	4.1	64
47	A system-optimization perspective for supply chain network integration: The horizontal merger case. Transportation Research, Part E: Logistics and Transportation Review, 2009, 45, 1-15.	7.4	63
48	Environmental Impact Assessment of Transportation Networks with Degradable Links in an Era of Climate Change. International Journal of Sustainable Transportation, 2010, 4, 154-171.	4.1	63
49	COMPETITIVE EQUILIBRIUM PROBLEMS, VARIATIONAL INEQUALITIES AND REGIONAL SCIENCE*â€. Journal of Regional Science, 1987, 27, 503-517.	3.3	62
50	Dynamics of global supply chain supernetworks. Mathematical and Computer Modelling, 2003, 37, 963-983.	2.0	61
51	Formulation and computation of general financial equilibrium. Optimization, 1992, 26, 339-354.	1.7	59
52	On the equivalence between stationary link flow patterns and traffic network equilibria. Transportation Research Part B: Methodological, 2001, 35, 731-748.	5.9	59
53	Modeling generator power plant portfolios and pollution taxes in electric power supply chain networks: A transportation network equilibrium transformation. Transportation Research, Part D: Transport and Environment, 2006, 11, 171-190.	6.8	59
54	Multifirm models of cybersecurity investment competition vs. cooperation and network vulnerability. European Journal of Operational Research, 2017, 260, 588-600.	5.7	58

#	Article	IF	Citations
55	ChoiceNet. Computer Communication Review, 2014, 44, 58-65.	1.8	57
56	Supply and Demand Equilibration Algorithms for a Class of Market Equilibrium Problems. Transportation Science, 1989, 23, 118-124.	4.4	54
57	A dynamical systems approach for network oligopolies and variational inequalities. Annals of Regional Science, 1994, 28, 263-283.	2.1	54
58	Sustainable Supply Chain and Transportation Networks. International Journal of Sustainable Transportation, 2007, 1, 29-51.	4.1	54
59	Multitiered Supply Chain Networks: Multicriteria Decisionâ€"Making Under Uncertainty. Annals of Operations Research, 2005, 135, 155-178.	4.1	53
60	Dynamics of Supply Chains: A Multilevel (Logisticalâ€"Informationalâ€"Financial) Network Perspective. Environment and Planning B: Planning and Design, 2002, 29, 795-818.	1.7	52
61	Optimal endogenous carbon taxes for electric power supply chains with power plants. Mathematical and Computer Modelling, 2006, 44, 899-916.	2.0	52
62	Financial engineering of the integration of global supply chain networks and social networks with risk management. Naval Research Logistics, 2006, 53, 674-696.	2.2	52
63	Projected Dynamical Systems and Evolutionary Variational Inequalities via Hilbert Spaces with Applications1. Journal of Optimization Theory and Applications, 2005, 127, 549-563.	1.5	51
64	Variational Inequalities and Networks in the Formulation and Computation of Market Equilibria and Disequilibria: The Case of Direct Demand Functions. Transportation Science, 1993, 27, 4-15.	4.4	50
65	Variational inequalities in the analysis and computation of multi-sector, multi-instrument financial equilibria. Journal of Economic Dynamics and Control, 1994, 18, 161-184.	1.6	50
66	A projected dynamical systems model of general financial equilibrium with stability analysis. Mathematical and Computer Modelling, 1996, 24, 35-44.	2.0	50
67	An integrated financial and logistical game theory model for humanitarian organizations with purchasing costs, multiple freight service providers, and budget, capacity, and demand constraints. International Journal of Production Economics, 2019, 212, 212-226.	8.9	48
68	A network formulation of market equilibrium problems and variational inequalities. Operations Research Letters, 1984, 3, 247-250.	0.7	47
69	The Internet, evolutionary variational inequalities, and the time-dependent Braess paradox. Computational Management Science, 2007, 4, 355-375.	1.3	47
70	Quality in competitive fresh produce supply chains with application to farmers' markets. Socio-Economic Planning Sciences, 2017, 60, 62-76.	5.0	47
71	Robustness of transportation networks subject to degradable links. Europhysics Letters, 2007, 80, 68001.	2.0	45
72	A supply chain network game theory model with product differentiation, outsourcing of production and distribution, and quality and price competition. Annals of Operations Research, 2015, 226, 479-503.	4.1	45

#	ARTICLE	IF	CITATIONS
73	Migration equilibrium and variational inequalities. Economics Letters, 1989, 31, 109-112.	1.9	43
74	Double-layered dynamics: A unified theory of projected dynamical systems and evolutionary variational inequalities. European Journal of Operational Research, 2006, 175, 494-507.	5.7	43
75	Massively parallel computation of spatial price equilibrium problems as dynamical systems. Journal of Economic Dynamics and Control, 1995, 19, 3-37.	1.6	42
76	Formulation, Stability, and Computation of Traffic Network Equilibria as Projected Dynamical Systems. Journal of Optimization Theory and Applications, 1997, 93, 417-444.	1.5	42
77	Medical nuclear supply chain design: A tractable network model and computational approach. International Journal of Production Economics, 2012, 140, 865-874.	8.9	41
78	Supply chain network competition in price and quality with multiple manufacturers and freight service providers. Transportation Research, Part E: Logistics and Transportation Review, 2015, 77, 248-267.	7.4	41
79	Mergers and acquisitions in blood banking systems: A supply chain network approach. International Journal of Production Economics, 2017, 193, 406-421.	8.9	41
80	Networks Against Time. SpringerBriefs in Optimization, 2013, , .	0.3	39
81	Marketable Pollution Permits in Oligopolistic Markets with Transaction Costs. Operations Research, 2000, 48, 424-435.	1.9	38
82	How to increase the impact of disaster relief: A study of transportation rates, framework agreements and product distribution. European Journal of Operational Research, 2019, 274, 126-141.	5.7	38
83	A general dynamic spatial price network equilibrium model with gains and losses. Networks, 1989, 19, 751-769.	2.7	37
84	An integrated electric power supply chain and fuel market network framework: Theoretical modeling with empirical analysis for New England. Naval Research Logistics, 2009, 56, 600-624.	2.2	37
85	Multiperiod competitive supply chain networks with inventorying and a transportation network equilibrium reformulation. Optimization and Engineering, 2012, 13, 471-503.	2.4	37
86	On the stability of an adjustment process for spatial price equilibrium modeled as a projected dynamical system. Journal of Economic Dynamics and Control, 1996, 20, 43-62.	1.6	35
87	A relative total cost index for the evaluation of transportation network robustness in the presence of degradable links and alternative travel behavior. International Transactions in Operational Research, 2009, 16, 49-67.	2.7	35
88	Human migration networks. European Journal of Operational Research, 1992, 59, 262-274.	5.7	34
89	Financial networks with intermediation. Quantitative Finance, 2001, 1, 441-451.	1.7	34
90	A multimodal traffic network equilibrium model with emission pollution permits: compliance vs noncompliance. Transportation Research, Part D: Transport and Environment, 1998, 3, 349-374.	6.8	33

#	ARTICLE	IF	CITATIONS
91	Financial networks with intermediation: Risk management with variable weights. European Journal of Operational Research, 2006, 172, 40-63.	5.7	33
92	When and for whom would e-waste be a treasure trove? Insights from a network equilibrium model of e-waste flows. International Journal of Production Economics, 2014, 154, 263-273.	8.9	33
93	A multicountry, multicommodity stochastic game theory network model of competition for medical supplies inspired by the Covid-19 pandemic. International Journal of Production Economics, 2021, 236, 108074.	8.9	33
94	A network equilibrium formulation of market disequilibrium and variational inequalities. Networks, 1991, 21, 109-132.	2.7	32
95	Transportation Network Policy Modeling with Goal Targets and Generalized Penalty Functions. Transportation Science, 1996, 30, 3-13.	4.4	32
96	Multicriteria network equilibrium modeling with variable weights for decision-making in the Information Age with applications to telecommuting and teleshopping. Journal of Economic Dynamics and Control, 2002, 26, 1629-1650.	1.6	32
97	Financial networks with electronic transactions: modelling, analysis and computations. Quantitative Finance, 2003, 3, 71-87.	1.7	32
98	The negation of the Braess paradox as demand increases: The wisdom of crowds in transportation networks. Europhysics Letters, 2010, 91, 48002.	2.0	32
99	Supply chain network capacity competition with outsourcing: a variational equilibrium framework. Journal of Global Optimization, 2017, 69, 231-254.	1.8	32
100	Algorithms for oligopolistic market equilibrium problems. Regional Science and Urban Economics, 1988, 18, 425-445.	2.6	31
101	Progressive equilibration algorithms: The case of linear transaction costs. Computer Science in Economics and Management, 1989, 2, 197-219.	0.5	31
102	Projected dynamical systems modeling and computation of spatial network equilibria. Networks, 1995, 26, 69-85.	2.7	31
103	Stability analysis of an adjustment process for oligopolistic market equilibrium modeld as a projected dynamical system. Optimization, 1996, 36, 263-285.	1.7	31
104	Formulation and analysis of horizontal mergers among oligopolistic firms with insights into the merger paradox: a supply chain network perspective. Computational Management Science, 2010, 7, 377-406.	1.3	31
105	Modeling of Supply Chain Risk Under Disruptions with Performance Measurement and Robustness Analysis. , 2009, , 91-111.		30
106	Choice as a principle in network architecture. , 2012, , .		30
107	Supply chain network competition in time-sensitive markets. Transportation Research, Part E: Logistics and Transportation Review, 2014, 70, 112-127.	7.4	30
108	A network model of migration equilibrium with movement costs. Mathematical and Computer Modelling, 1990, 13, 79-88.	2.0	29

#	ARTICLE	IF	CITATIONS
109	A Cournot–Nash–Bertrand game theory model of a service-oriented Internet with price and quality competition among network transport providers. Computational Management Science, 2014, 11, 475-502.	1.3	29
110	Spatial price equilibrium with information asymmetry in quality and minimum quality standards. International Journal of Production Economics, 2014, 158, 300-313.	8.9	29
111	Disequilibrium and variational inequalities. Journal of Computational and Applied Mathematics, 1990, 33, 181-198.	2.0	28
112	Spatial Market Policy Modeling with Goal Targets. Operations Research, 1996, 44, 393-406.	1.9	28
113	Dynamic supernetworks for the integration of social networks and supply chains with electronic commerce: modeling and analysis of buyer?seller relationships with computations. NETNOMICS: Economic Research and Electronic Networking, 2004, 6, 153-185.	0.9	28
114	A network equilibrium framework for Internet advertising: Models, qualitative analysis, and algorithms. European Journal of Operational Research, 2008, 187, 456-472.	5.7	28
115	A Dynamic Network Oligopoly Model with Transportation Costs, Product Differentiation, and Quality Competition. Computational Economics, 2014, 44, 201-229.	2.6	28
116	A general multitiered supply chain network model of quality competition with suppliers. International Journal of Production Economics, 2015, 170, 336-356.	8.9	28
117	Cybersecurity investments with nonlinear budget constraints and conservation laws: variational equilibrium, marginal expected utilities, and Lagrange multipliers. International Transactions in Operational Research, 2018, 25, 1443-1464.	2.7	28
118	Financial flow of funds networks. Networks, 1992, 22, 145-161.	2.7	27
119	A network economic game theory model of a service-oriented internet with choices and quality competition. NETNOMICS: Economic Research and Electronic Networking, 2013, 14, 1-25.	0.9	27
120	Computational comparisons of algorithms for general asymmetric traffic equilibrium problems with fixed and elastic demands. Transportation Research Part B: Methodological, 1986, 20, 78-84.	5.9	26
121	A general dynamic spatial price equilibrium model: formulation, solution, and computational results. Journal of Computational and Applied Mathematics, 1988, 22, 339-357.	2.0	26
122	Teleshopping versus shopping: a multicriteria network equilibrium framework. Mathematical and Computer Modelling, 2001, 34, 783-798.	2.0	26
123	Management of knowledge intensive systems as supernetworks: Modeling, analysis, computations, and applications. Mathematical and Computer Modelling, 2005, 42, 397-417.	2.0	26
124	A Transportation Network Efficiency Measure that Captures Flows, Behavior, and Costs With Applications to Network Component Importance Identification and Vulnerability. SSRN Electronic Journal, 0, , .	0.4	26
125	Financial Networks with Intermediation and Transportation Network Equilibria: A Supernetwork Equivalence and Reinterpretation of the Equilibrium Conditions with Computations. Computational Management Science, 2007, 4, 243-281.	1.3	26
126	Pharmaceutical supply chain networks with outsourcing under price and quality competition. International Transactions in Operational Research, 2013, 20, 859-888.	2.7	25

#	ARTICLE	IF	CITATIONS
127	Supply chain network competition among blood service organizations: a Generalized Nash Equilibrium framework. Annals of Operations Research, 2019, 275, 551-586.	4.1	25
128	Finance and variational inequalities*. Quantitative Finance, 2001, 1, 309-317.	1.7	24
129	Consumer learning of product quality with time delay: Insights from spatial price equilibrium models with differentiated products. Omega, 2018, 81, 150-168.	5.9	24
130	Tariffs and quotas in world trade: A unified variational inequality framework. European Journal of Operational Research, 2019, 275, 347-360.	5.7	24
131	Parallel and Serial Variational Inequality Decomposition Algorithms for Multicommodity Market Equilibrium Problems. The International Journal of Supercomputer Applications, 1989, 3, 34-58.	0.5	22
132	The Evolution and Emergence of Integrated Social and Financial Networks with Electronic Transactions: A Dynamic Supernetwork Theory for the Modeling, Analysis, and Computation of Financial Flows and Relationship Levels. Computational Economics, 2006, 27, 353-393.	2.6	21
133	Global supply chain networks and tariff rate quotas: equilibrium analysis with application to agricultural products. Journal of Global Optimization, 2019, 75, 439-460.	1.8	21
134	A network model and algorithm for the analysis and estimation of financial flow of funds. Computer Science in Economics and Management, 1992, 5, 23-39.	0.5	20
135	Preface to â€œOn a Paradox of Traffic Planningâ€. Transportation Science, 2005, 39, 443-445.	4.4	20
136	Equilibria and dynamics of supply chain network competition with information asymmetry in quality and minimum quality standards. Computational Management Science, 2014, 11, 285-315.	1.3	20
137	Urban Location and Transportation in the Information Age: A Multiclass, Multicriteria Network Equilibrium Perspective. Environment and Planning B: Planning and Design, 2002, 29, 53-74.	1.7	19
138	An efficiency measure for dynamic networks modeled as evolutionary variational inequalities with application to the Internet and vulnerability analysis. NETNOMICS: Economic Research and Electronic Networking, 2008, 9, 1-20.	0.9	19
139	Design of Sustainable Supply Chains for Sustainable Cities. Environment and Planning B: Planning and Design, 2015, 42, 40-57.	1.7	18
140	Competing on Supply Chain Quality. Springer Series in Supply Chain Management, 2016, , .	0.7	18
141	Competition for blood donations. Omega, 2019, 85, 103-114.	5.9	18
142	International human migration networks under regulations. European Journal of Operational Research, 2021, 291, 894-905.	5.7	18
143	Perishable Food Supply Chain Networks with Labor in the Covid-19 Pandemic. Springer Optimization and Its Applications, 2021, , 173-193.	0.9	18
144	Alternative pollution permit systems for transportation networks based on origin/destination pairs and paths. Transportation Research, Part D: Transport and Environment, 2000, 5, 37-58.	6.8	17

#	Article	IF	Citations
145	Choice as a principle in network architecture. Computer Communication Review, 2012, 42, 105-106.	1.8	17
146	An Integrated Disaster Relief Supply Chain Network Model with Time Targets and Demand Uncertainty. , 2015, , 287-318.		17
147	Dynamics of quality as a strategic variable in complex food supply chain network competition: The case of fresh produce. Chaos, 2018, 28, 043124.	2.5	17
148	Strict quotas or tariffs? Implications for product quality and consumer welfare in differentiated product supply chains. Transportation Research, Part E: Logistics and Transportation Review, 2019, 129, 136-161.	7.4	17
149	An Algorithm for the Solution of a Quadratic Programming Problem, with Application to Constrained Matrix and Spatial Price Equilibrium Problems. Environment and Planning A, 1989, 21, 99-114.	3.6	16
150	A Stochastic, Multiclass Airline Network Equilibrium Model. Operations Research, 1993, 41, 721-730.	1.9	16
151	A variational inequality approach for marketable pollution permits. Computational Economics, 1996, 9, 363-384.	2.6	16
152	Bicriteria Decision Making and Financial Equilibrium: A Variational Inequality Perspective. Computational Economics, 2001, 17, 29-42.	2.6	16
153	Supply chain network sustainability under competition and frequencies of activities from production to distribution. Computational Management Science, 2013, 10, 397-422.	1.3	16
154	A massively parallel implementation of a discrete-time algorithm for the computation of dynamic elastic demand traffic problems modeled as projected dynamical systems. Journal of Economic Dynamics and Control, 1998, 22, 1467-1485.	1.6	15
155	Multiâ€product supply chain horizontal network integration: models, theory, and computational results. International Transactions in Operational Research, 2010, 17, 333-349.	2.7	15
156	A Network Economic Game Theory Model of a Service-Oriented Internet with Price and Quality Competition in Both Content and Network Provision. Service Science, 2014, 6, 229-250.	1.3	15
157	A game theory model of cybersecurity investments with information asymmetry. NETNOMICS: Economic Research and Electronic Networking, 2015, 16, 127-148.	0.9	15
158	A Multiproduct Network Economic Model of Cybercrime in Financial Services. Service Science, 2015, 7, 70-81.	1.3	15
159	Using Markov chains to model human migration in a network equilibrium framework. Mathematical and Computer Modelling, 1994, 19, 31-39.	2.0	14
160	Human migration networks and policy interventions: bringing population distributions in line with system optimization. International Transactions in Operational Research, 2021, 28, 5-26.	2.7	14
161	Competition for Medical Supplies Under Stochastic Demand in the Covid-19 Pandemic: A Generalized Nash Equilibrium Framework. Springer Optimization and Its Applications, 2021, , 331-356.	0.9	14
162	An equilibration scheme for the traffic assignment problem with elastic demands. Transportation Research Part B: Methodological, 1988, 22, 73-79.	5.9	13

#	ARTICLE	IF	CITATIONS
163	Physical proof of the occurrence of the Braess Paradox in electrical circuits. Europhysics Letters, 2016, 115, 28004.	2.0	13
164	Supply chain performance assessment and supplier and component importance identification in a general competitive multitiered supply chain network model. Journal of Global Optimization, 2017, 67, 223-250.	1.8	13
165	A Stochastic Disaster Relief Game Theory Network Model. SN Operations Research Forum, 2020, 1, 1.	1.0	13
166	The integer linear complementarity problem. International Journal of Computer Mathematics, 1990, 31, 205-214.	1.8	12
167	General financial equilibrium modeling with policy interventions and transaction costs. Computational Economics, 1996, 9, 3-17.	2.6	12
168	Dynamics of a transportation pollution permit system with stability analysis and computations. Transportation Research, Part D: Transport and Environment, 2001, 6, 243-268.	6.8	12
169	International financial networks with intermediation: modeling, analysis, and computations. Computational Management Science, 2003, 1, 31.	1.3	12
170	Environmental and Cost Synergy in Supply Chain Network Integration in Mergers and Acquisitions. Lecture Notes in Economics and Mathematical Systems, 2010, , 57-78.	0.3	12
171	Massively parallel computation of large-scale spatial price equilibrium models with discriminatory ad valorem tariffs. Annals of Operations Research, 1996, 68, 281-300.	4.1	11
172	Paradoxes in networks with zero emission links: implications for telecommunications versus transportation. Transportation Research, Part D: Transport and Environment, 2001, 6, 283-296.	6.8	11
173	Quantifying supply chain network synergy for humanitarian organizations. IBM Journal of Research and Development, 2020, 64, 12:1-12:16.	3.1	11
174	A Network Formalism for Pure Exchange Economic Equilibria. Network Optimization Problems: Algorithms, Applications and Complexity, 1993, , 363-386.	0.1	11
175	An algorithm for the single commodity spatial price equilibrium problem. Regional Science and Urban Economics, 1986, 16, 573-588.	2.6	10
176	An algorithm for the classical spatial price equilibrium problem. Operations Research Letters, 1987, 6, 93-98.	0.7	10
177	A General Equilibrium Model of Interregional Monetary Flows. Environment and Planning A, 1989, 21, 397-404.	3.6	10
178	Algorithms for quadratic constrained matrix problems. Mathematical and Computer Modelling, 1992, 16, 53-65.	2.0	10
179	Generalized goal programming and variational inequalities. Operations Research Letters, 1992, 12, 217-226.	0.7	10
180	A space-time network for telecommuting versus commuting decision-making. Papers in Regional Science, 2003, 82, 451-473.	1.9	10

#	Article	IF	Citations
181	Evolution variational inequalities and projected dynamical systems with application to human migration. Mathematical and Computer Modelling, 2006, 43, 646-657.	2.0	10
182	A network modeling approach for the optimization of Internet-based advertising strategies and pricing with a quantitative explanation of two paradoxes. NETNOMICS: Economic Research and Electronic Networking, 2006, 7, 97-114.	0.9	10
183	Refugee migration networks and regulations: a multiclass, multipath variational inequality framework. Journal of Global Optimization, 2020, 78, 627-649.	1.8	10
184	Probabilistic assessment of transport network vulnerability with equilibrium flows. International Journal of Sustainable Transportation, 2021, 15, 512-523.	4.1	10
185	A Supply Chain Game Theory Framework for Cybersecurity Investments Under Network Vulnerability. , 2015, , 381-398.		10
186	The formulation and solution of large-scale multicommodity equilibrium problems over space and time. European Journal of Operational Research, 1989, 42, 166-177.	5.7	9
187	The Cyber-Physical Marketplace: A Framework for Large-Scale Horizontal Integration in Distributed Cyber-Physical Systems. , 2013, , .		9
188	Networks in economics and finance in <i>Networks</i> and beyond: AÂhalf century retrospective. Networks, 2021, 77, 50-65.	2.7	9
189	Modeling of Covidâ€19 trade measures on essential products: a multiproduct, multicountry spatial price equilibrium framework. International Transactions in Operational Research, 2022, 29, 226-258.	2.7	9
190	Dynamics of international financial networks with risk management. Quantitative Finance, 2004, 4, 276-291.	1.7	8
191	Hospital competition in prices and quality: A variational inequality framework. Operations Research for Health Care, 2017, 15, 91-101.	1.2	8
192	Multitiered blood supply chain network competition: Linking blood service organizations, hospitals, and payers. Operations Research for Health Care, 2019, 23, 100230.	1.2	8
193	A Dynamic Network Economic Model of a Service-Oriented Internet with Price and Quality Competition. Springer Optimization and Its Applications, 2014, , 239-264.	0.9	8
194	Import and Export Equilibration Algorithms for the Net Import Spatial Price Equilibrium Problem. The Journal of Cost Analysis, 1989, 7, 73-88.	0.2	8
195	Noncompliant oligopolistic firms and marketable pollution permits: Statics and dynamics. Annals of Operations Research, 2000, 95, 285-312.	4.1	7
196	A game theory model for freight service provision security investments for high-value cargo. Economics of Transportation, 2018, 16, 21-28.	2.3	7
197	A Variational Equilibrium Network Framework for Humanitarian Organizations in Disaster Relief: Effective Product Delivery Under Competition for Financial Funds. Springer Optimization and Its Applications, 2018, , 109-133.	0.9	7
198	Identification of Critical Nodes and Links in Financial Networks with Intermediation and Electronic Transactions. , 2008, , 273-297.		7

#	Article	IF	Citations
199	The Application of Variational Inequality Theory to the Study of Spatial Equilibrium and Disequilibrium. Contributions To Economic Analysis, 1992, 209, 327-355.	0.1	7
200	Network decomposition of general financial equilibria with transaction costs. Networks, 1996, 28, 107-116.	2.7	6
201	A Dynamic Network Oligopoly Model with Transportation Costs, Product Differentiation, and Quality Competition. SSRN Electronic Journal, 0, , .	0.4	6
202	Supply Chains and Transportation Networks. , 2014, , 787-810.		6
203	A Layered Protocol Architecture for Scalable Innovation and Identification of Network Economic Synergies in the Internet of Things. , 2016, , .		6
204	Supply chain networks, wages, and labor productivity: insights from Lagrange. analysis and computations. Journal of Global Optimization, 2022, , 1-24.	1.8	6
205	Spatial price equilibrium networks with flow-dependent arc multipliers. Optimization Letters, 2022, 16, 2483-2500.	1.6	6
206	Equilibrium Modeling, Analysis and Computation: The Contributions of Stella Dafermos. Operations Research, 1991, 39, 9-12.	1.9	5
207	Financial Networks and Optimally-Sized Portfolios. Computational Economics, 2001, 17, 5-27.	2.6	5
208	Spatial price equilibrium and food webs: The economics of predator-prey networks. , 2011, , .		5
209	A game theoretical approach to the vertical coexistence of small and big fish. Ecological Modelling, 2012, 240, 41-48.	2.5	5
210	Securing the Sustainability of Global Medical Nuclear Supply Chains Through Economic Cost Recovery, Risk Management, and Optimization. International Journal of Sustainable Transportation, 2015, 9, 405-418.	4.1	5
211	Capacitated Human Migration Networks and Subsidization. Springer Optimization and Its Applications, 2021, , 195-217.	0.9	5
212	Optimization of investments in labor productivity in supply chain networks. International Transactions in Operational Research, 0, , .	2.7	5
213	A Parallel Network Equilibration Algorithm for a Class of Constrained Matrix Problems. Transportation Science, 1992, 26, 59-68.	4.4	4
214	Massively parallel implementation of the Splitting Equilibration Algorithm. Computational Economics, 1993, 6, 151-161.	2.6	4
215	Dynamic multi-sector, multi-instrument financial networks with futures: Modeling and computation. Networks, 1999, 33, 93-108.	2.7	4
216	Spatial economic networks with multicriteria producers and consumers: Statics and dynamics. Annals of Regional Science, 2002, 36, 79-105.	2.1	4

#	Article	IF	Citations
217	Report: Some recent developments in network economics. Networks, 2003, 41, 68-72.	2.7	4
218	Food Supply Chains. SpringerBriefs in Optimization, 2013, , 65-88.	0.3	4
219	Cybersecurity Investments with Nonlinear Budget Constraints: Analysis of the Marginal Expected Utilities. Springer Optimization and Its Applications, 2017, , 117-134.	0.9	4
220	A Multiperiod Supply Chain Network Optimization Model with Investments in Labor Productivity Enhancements in an Era of COVID-19 and Climate Change. SN Operations Research Forum, 2021, 2, 1.	1.0	4
221	An integrated framework for the design of optimal web banners. NETNOMICS: Economic Research and Electronic Networking, 2010, 11, 69-83.	0.9	3
222	Equilibria and Dynamics of Supply Chain Network Competition with Information Asymmetry in Quality and Minimum Quality Standards. SSRN Electronic Journal, 2013, , .	0.4	3
223	A Multitiered Supply Chain Network Equilibrium Model for Disaster Relief with Capacitated Freight Service Provision. Springer Optimization and Its Applications, 2018, , 85-108.	0.9	3
224	Networks in Finance. , 2008, , 383-419.		3
225	A Multiclass, Multiproduct Covid-19 Convalescent Plasma Donor Equilibrium Model. SN Operations Research Forum, 2021, 2, 1.	1.0	3
226	Attracting international migrant labor: Investment optimization to alleviate supply chain labor shortages. Operations Research Perspectives, 2022, 9, 100233.	2.1	3
227	Resilience of Supply Chain Networks to Labor Disruptions. Findings, 0, , .	0.0	3
228	Network modeling of international financialequilibria with hedging. Annals of Operations Research, 1998, 82, 139-160.	4.1	2
229	Overcoming economic challenges of internet operators in low income regions through a delay tolerant architecture with mechanic backhauls. NETNOMICS: Economic Research and Electronic Networking, 2014, 15, 183-213.	0.9	2
230	A Supply Chain Network Game Theoretic Framework for Time-Based Competition with Transportation Costs and Product Differentiation. , 2014, , 373-391.		2
231	Supply Chain Network Oligopolies with Product Differentiation. Springer Series in Supply Chain Management, 2016, , 119-147.	0.7	2
232	A Multiclass, Multiproduct COVID-19 Convalescent Plasma Donor Equilibrium Model. SSRN Electronic Journal, 0, , .	0.4	2
233	Financial networks. Computational Management Science, 2013, 10, 77-80.	1.3	1
234	Spatial Price Equilibrium with Information Asymmetry in Quality. SSRN Electronic Journal, 0, , .	0.4	1

#	Article	IF	Citations
235	Supply Chain Performance Assessment and Supplier and Component Importance Identification in a General Competitive Multitiered Supply Chain Network Model. SSRN Electronic Journal, 2015, , .	0.4	1
236	The Supply Chain Network Model with Freight Service Provider Competition. Springer Series in Supply Chain Management, 2016, , 315-342.	0.7	1
237	Wage-Dependent Labor and Supply Chain Networks in the COVID-19 Pandemic and Beyond. SSRN Electronic Journal, 0, , .	0.4	1
238	TSS Dissertation Abstractsâ€"Abstracts for the 1992 Transportation Science Section Dissertation Prize Competition. Transportation Science, 1993, 27, 200-207.	4.4	0
239	Transport Developments and Innovations in an Evolving World.. Papers in Regional Science, 2005, 84, 521-526.	1.9	0
240	A Supply Chain Network Game Theory Model with Product Differentiation, Outsourcing of Production and Distribution, and Quality and Price Competition. SSRN Electronic Journal, 0, , .	0.4	0
241	A General Multitiered Supply Chain Network Model of Quality Competition with Suppliers. SSRN Electronic Journal, 0, , .	0.4	0
242	Game Theory and the COVID-19 Pandemic. , 2021, , 83-130.		0
243	Towards Pricing Mechanisms for Delay Tolerant Services. International Journal of Computers, Communications and Control, 2015, 11, 77.	1.8	0
244	Supply Chain Network Competition with Multiple Freight Options. Springer Series in Supply Chain Management, 2016, , 149-173.	0.7	0
245	Outsourcing Under Price and Quality Competition: Multiple Firms. Springer Series in Supply Chain Management, 2016, , 201-226.	0.7	0
246	The General Multitiered Supply Chain Model of Quality Competition with Suppliers. Springer Series in Supply Chain Management, 2016, , 267-313.	0.7	0
247	Information Asymmetry in Perfectly Competitive Spatial Price Equilibrium Problems. Springer Series in Supply Chain Management, 2016, , 85-116.	0.7	0
248	Information Asymmetry and Minimum Quality Standards in Supply Chain Oligopolies. Springer Series in Supply Chain Management, 2016, , 49-84.	0.7	0
249	Multitiered Blood Supply Chain Network Competition: Linking Blood Service Organizations, Hospitals, and Payers. SSRN Electronic Journal, 0, , .	0.4	0
250	Reply to â€œThe Expanding Equilibrium Algorithm -Further Evidenceâ€• The Journal of Cost Analysis, 1989, 7, 93-102.	0.2	0