Takashi Akamatsu

List of Publications by Year
in descending order

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90	1,179	471509 17	395702 33
papers	citations	h-index	g-index

91	91	91	558
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cyclic flows, Markov process and stochastic traffic assignment. Transportation Research Part B: Methodological, 1996, 30, 369-386.	5.9	164
2	Decomposition of the reactive dynamic assignments with queues for a many-to-many origin-destination pattern. Transportation Research Part B: Methodological, 1997, 31, 1-10.	5.9	89
3	Decomposition of Path Choice Entropy in General Transport Networks. Transportation Science, 1997, 31, 349-362.	4.4	81
4	Tradable network permits: A new scheme for the most efficient use of network capacity. Transportation Research Part C: Emerging Technologies, 2017, 79, 178-195.	7.6	69
5	Dynamic user optimal assignment with physical queues for a many-to-many OD pattern. Transportation Research Part B: Methodological, 2001, 35, 461-479.	5.9	61
6	Spatial discounting, Fourier, and racetrack economy: A recipe for the analysis of spatial agglomeration models. Journal of Economic Dynamics and Control, 2012, 36, 1729-1759.	1.6	60
7	A dynamic traffic equilibrium assignment paradox. Transportation Research Part B: Methodological, 2000, 34, 515-531.	5.9	58
8	Spatial period-doubling agglomeration of a coreâ€“periphery model with a system of cities. Journal of Economic Dynamics and Control, 2012, 36, 754-778.	1.6	58
9	A hybrid implementation mechanism of tradable network permits system which obviates path enumeration: An auction mechanism with day-to-day capacity control. Transportation Research, Part E: Logistics and Transportation Review, 2013, 60, 94-112.	7.4	43
10	An Efficient Algorithm for Dynamic Traffic Equilibrium Assignment with Queues. Transportation Science, 2001, 35, 389-404.	4.4	38
11	Self-organization of hexagonal agglomeration patterns in new economic geography models. Journal of Economic Behavior and Organization, 2014, 99, 32-52.	2.0	33
12	The corridor problem with discrete multiple bottlenecks. Transportation Research Part B: Methodological, 2015, 81, 808-829.	5.9	33
13	TRADABLE TIME-OF-DAY BOTTLENECK PERMITS FOR MORNING COMMUTERS. Doboku Gakkai Ronbunshuu D, 2006, 62, 605-620.	0.0	30
14	Detecting Dynamic Traffic Assignment Capacity Paradoxes in Saturated Networks. Transportation Science, 2003, 37, 123-138.	4.4	29
15	Maximum Network Capacity Problem under the Transportation Equilibrium Assignment. Infrastructure Planning Review, 1995, 12, 719-729.	0.1	27
16	Dynamic Revenue Management of a Toll Road Project under Transportation Demand Uncertainty. Networks and Spatial Economics, 2006, 6, 345-357.	1.6	22
17	Agglomeration patterns in a long narrow economy of a new economic geography model: Analogy to a racetrack economy. International Journal of Economic Theory, 2017, 13, 113-145.	0.6	19
18	HARRIS AND WILSON (1978) MODEL REVISITED: THE SPATIAL PERIODâ€DOUBLING CASCADE IN AN URBAN RETAIL MODEL. Journal of Regional Science, 2017, 57, 442-466.	3.3	17

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19	Network throughput under dynamic user equilibrium: Queue spillback, paradox and traffic control. Transportation Research Part B: Methodological, 2019, 126, 391-413.	5.9	17
20	Model-based analysis on social acceptability and feasibility of a focused protection strategy against the COVID-19 pandemic. Scientific Reports, 2021, 11, 2003.	3.3	16
21	SELF-ORGANIZATION OF LÃ–SCH'S HEXAGONS IN ECONOMIC AGGLOMERATION FOR CORE-PERIPHERY MODELS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1230026.	1.7	15
22	A generalized complementarity approach to solving real option problems. Journal of Economic Dynamics and Control, 2008, 32, 1754-1779.	1.6	14
23	Semi-dynamic Traffic Assignment Models with Queue Evolution and Elastic OD Demand. Infrastructure Planning Review, 1998, 15, 535-545.	0.1	13
24	A SYSTEM OF TRADABLE BOTTLENECK PERMITS FOR GENERAL NETWORKS. Doboku Gakkai Ronbunshuu D, 2007, 63, 287-301.	0.0	13
25	Commuter's Benefit Evaluation of Train Scheduling by Network User Equilibrium Model. Infrastructure Planning Review, 1988, 6, 177-184.	0.1	12
26	Trading mechanisms for bottleneck permits with multiple purchase opportunities. Transportation Research Part C: Emerging Technologies, 2018, 95, 414-430.	7.6	12
27	An Empirical Analysis of Macroscopic Fundamental Diagrams for Sendai Road Networks. Interdisciplinary Information Sciences, 2015, 21, 49-61.	0.4	12
28	A new look at departure time choice equilibrium models with heterogeneous users. Transportation Research Part B: Methodological, 2021, 148, 152-182.	5.9	11
29	A Hybrid Implementation Mechanism of Tradable Network Permits System Which Obviates Path Enumeration: An Auction Mechanism with Day-to-day Capacity Control. Procedia, Social and Behavioral Sciences, 2013, 80, 304-326.	0.5	10
30	Markovian traffic equilibrium assignment based on network generalized extreme value model. Transportation Research Part B: Methodological, 2022, 155, 135-159.	5.9	10
31	First-best dynamic assignment of commuters with endogenous heterogeneities in a corridor network. Transportation Research Part B: Methodological, 2018, 117, 811-831.	5.9	8
32	Equilibrium refinement for a model of non-monocentric internal structures of cities: A potential game approach. Journal of Economic Theory, 2020, 187, 105025.	1.1	8
33	OPTIMAL ROAD PRICING UNDER STOCHASTIC USER EQUILIBRIUM. Doboku Gakkai Ronbunshu, 1988, 1988, 121-129.	0.2	7
34	DYNAMIC USER EQUILIBRIUM ASSIGNMENT ON OVERSATURATED ROAD NETWORKS. Doboku Gakkai Ronbunshu, 1994, 1994, 21-30.	0.2	7
35	Pareto Improvement Properties of Tradable Permit Systems for a Tandem Bottleneck Network. Infrastructure Planning Review, 2008, 25, 897-907.	0.1	5
36	AN E-MARKET MECHANISM FOR IMPLEMENTING TRADABLE BOTTLENECK PERMITS. Doboku Gakkai Ronbunshuu D, 2010, 66, 160-177.	0.0	5

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37	The Corridor Problem with Discrete Multiple Bottlenecks. Transportation Research Procedia, 2015, 7, 474-498.	1.5	5
38	SPATIO-TEMPORAL ANALYSIS OF GASOLINE SHORTAGE IN THE TOHOKU REGION AFTER THE GREAT EAST JAPAN EARTHQUAKE. Journal of Japan Society of Civil Engineers, 2013, 1, 447-469.	0.2	5
39	A STOCHASTIC NETWORK EQUILIBRIUM MODEL WITH ELASTIC DEMAND AND ITS SOLUTION METHOD. Doboku Gakkai Ronbunshu, 1989, 1989, 109-118.	0.2	3
40	A CONTROL STRATEGY TO PREVENT DELAY PROPAGATION IN HIGH-FREQUENCY RAILWAY SYSTEMS. Journal of Japan Society of Civil Engineers Ser D3 (Infrastructure Planning and Management), 2012, 68, I_1025-I_1034.	0.1	3
41	Discrete-space agglomeration model with social interactions: Multiplicity, stability, and continuous limit of equilibria. Journal of Mathematical Economics, 2017, 69, 22-37.	0.8	3
42	First-Best Dynamic Assignment of Commuters with Endogenous Heterogeneities in a Corridor Network. Transportation Research Procedia, 2017, 23, 303-321.	1.5	3
43	Dynamic traffic assignment in a corridor network: Optimum versus equilibrium. Transportation Research Part B: Methodological, 2022, 161, 218-246.	5.9	3
44	Theory for Forecasting/Control of Dynamic Transportation Network Flows. Infrastructure Planning Review, 1996, 13, 23-48.	0.1	2
45	REACTIVE DYNAMIC USER OPTIMAL ASSIGNMENT WITH PHYSICAL QUEUES FOR A MANY-TO-MANY OD PATTERN. Doboku Gakkai Ronbunshu, 1997, 1997, 91-102.	0.2	2
46	A Simultaneous Equilibrium Model of Work Start Time & Departure Time Choices with Bottleneck Congestion. Infrastructure Planning Review, 2006, 23, 903-910.	0.1	2
47	A Semi-dynamic Traffic Equilibrium Assignment Model with Link Arrival and Departure Rates. Infrastructure Planning Review, 2007, 24, 577-585.	0.1	2
48	AUCTION MECHANISMS FOR IMPLEMENTING TRADABLE NETWORK PERMIT MARKETS. Journal of Japan Society of Civil Engineers Ser D3 (Infrastructure Planning and Management), 2011, 67, 376-389.	0.1	2
49	A network of options: Evaluating complex interdependent decisions under uncertainty. Journal of Economic Dynamics and Control, 2011, 35, 714-729.	1.6	2
50	A CRITICAL NOTE ON RECENT EMPIRICAL STUDIES BASED ON SPATIAL AGGLOMERATION MODELS. Journal of Japan Society of Civil Engineers Ser D3 (Infrastructure Planning and Management), 2017, 73, 1-15.	0.1	2
51	DYNAMIC TRAFFIC ASSIGNMENT AND ORIGIN-DESTINATION PATTERNS. Doboku Gakkai Ronbunshu, 1999, 1999, 39-51.	0.2	1
52	DYNAMIC NETWORK ANALYSES. Doboku Gakkai Ronbunshu, 2000, 2000, 3-16.	0.2	1
53	VARIATIONAL INEQUALITY APPROACH TO INFRASTRUCTURE INVESTMENT/MANAGEMENT PROBLEMS UNDER UNCERTAINTY. Doboku Gakkai Ronbunshu, 2004, 2004, 155-171.	0.2	1
54	DYNAMIC PRICING OF INFRASTRUCTURE PROJECTS WITH STOCHASTIC CASH FLOW STREAMS. Doboku Gakkai Ronbunshu, 2004, 2004, 39-54.	0.2	1

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55	Financial Engineering Approachs to Dynamic Pricing and Management of Infrastructure Projects Risk. Infrastructure Planning Review, 2006, 23, 1-21.	0.1	1
56	Risk Averse Dynamic System Optimal Traffic Assignment. Infrastructure Planning Review, 2006, 23, 963-972.	0.1	1
57	Core-Periphery Equilibrium Dynamics under Uncertainty. Infrastructure Planning Review, 2007, 24, 197-206.	0.1	1
58	Dynamics of Decentralized Multi-Agent Systems for Implementing Tradable Network Permits. Infrastructure Planning Review, 2008, 25, 589-596.	0.1	1
59	BIFURCATION ANALYSIS OF A RETAIL LOCATION MODEL WITH AGGLOMERATION ECONOMY. Journal of Japan Society of Civil Engineers Ser D3 (Infrastructure Planning and Management), 2015, 71, 141-155.	0.1	1
60	DECOMPOSITION STRATEGIES FOR SOLVING CROWDSOURCED-DELIVERY MATCHING PROBLEMS. Journal of Japan Society of Civil Engineers Ser D3 (Infrastructure Planning and Management), 2021, 77, 83-96.	0.1	1
61	Variational Inequality Approach to Multi-Regional Computable General Equilibrium Modeling. Infrastructure Planning Review, 1998, 15, 175-185.	0.1	1
62	NON-UNIQUENESS AND STABILITY OF EQUILIBRIUM URBAN CONFIGURATION FOR BECKMANN&rdsquo;S SPATIAL INTERACTION MODEL. Doboku Gakkai Ronbunshuu D, 2010, 66, 232-245.	0.0	1
63	STOCHASTIC STABILITY ANALYSIS OF A MODEL OF POLYCENTRIC URBAN CONFIGURATIONS: LINEAR CITY VS. CIRCULAR CITY. Journal of Japan Society of Civil Engineers Ser D3 (Infrastructure Planning and) Tj ETQq1 1 0.784314 rgBT /Overlock 10		
64	A QUADRATIC PROGRAMMING APPROACH FOR SOLVING A DYNAMIC USER EQUILIBRIUM WITH SIMULTANEOUS DEPARTURE TIME AND ROUTE CHOICE. Journal of Japan Society of Civil Engineers Ser D3 (Infrastructure Planning and Management), 2020, 76, 264-281.	0.1	1
65	A New Approach to Transportation Equilibrium Assignment Problem by Neural Network Model. Infrastructure Planning Review, 1989, 7, 227-234.	0.1	0
66	Some Efficient Algorithms for Stochastic Equilibrium Assignment. Infrastructure Planning Review, 1990, 8, 89-96.	0.1	0
67	ON THE RANK OF A NETWORK INCIDENCE MATRIX. Doboku Gakkai Ronbunshu, 1992, 1992, 223-226.	0.2	0
68	Efficient Algorithms for Solving Nested LOGIT type Combined Residential-Location and Transportation Network Equilibrium Models. Infrastructure Planning Review, 1996, 13, 279-287.	0.1	0
69	Feasible Office-Location Patterns which Ensure the Existence of the Combined Transportation Network and Residential Location Equilibrium. Infrastructure Planning Review, 1997, 14, 253-257.	0.1	0
70	Optimal Dispersion of Morning Commuters in Road Networks with Queueing. Infrastructure Planning Review, 1999, 16, 979-989.	0.1	0
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72	Managing Regional Economic Risks due to the Entry and Exit of Global Firms. Infrastructure Planning Review, 2006, 23, 51-58.	0.1	0

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73	Proposal of a bifurcation analysis procedure of Core-Periphery model by computational bifurcation theory. Infrastructure Planning Review, 2007, 24, 191-196.	0.1	0
74	Real Option Problems with Stochastic Interest Rates. Infrastructure Planning Review, 2007, 24, 111-119.	0.1	0
75	CATASTROPHE AVERSE STRATEGIES FOR ROUTING AND SITING IN THE DISPOSAL OF HAZARDOUS MATERIALS. Doboku Gakkai Ronbunshuu D, 2007, 63, 509-523.	0.0	0
76	Socially Optimal Dynamic Allocation in Core-Periphery Model with Economic Uncertainty. Infrastructure Planning Review, 2008, 25, 245-254.	0.1	0
77	IRREDUCIBILITY OF DYNAMIC TRAFFIC CONDITIONS IN A MODEL OF RESIDENTIAL LOCATION AND DEPARTURE TIME CHOICE EQUILIBRIUM WITH BOTTLENECK CONGESTION. Doboku Gakkai Ronbunshuu D, 2009, 65, 39-52.	0.0	0
78	A welfare analysis of the Core-Periphery model with multiple cities. Infrastructure Planning Review, 2009, 26, 393-401.	0.1	0
79	Some Efficient Algorithms for Semi-dynamic Traffic Equilibrium Assignment with Queue Evolution. Infrastructure Planning Review, 2009, 26, 989-997.	0.1	0
80	BIFURCATION MECHANISM OF THE CORE-PERIPHERY SYSTEM OF CITIES MODEL. Doboku Gakkai Ronbunshuu D, 2010, 66, 442-460.	0.0	0
81	EMERGENCE OF POLYCENTRIC URBAN CONFIGURATIONS FROM COMBINATION OF COMMUNICATION EXTERNALITY AND SPATIAL COMPETITION. Journal of Japan Society of Civil Engineers Ser D3 (Infrastructure Planning and Management), 2011, 67, 1-20.	0.1	0
82	AGGLOMERATION MECHANISM OF A SYSTEM OF CITIES ON A LINE SEGMENT. Journal of Japan Society of Civil Engineers Ser D3 (Infrastructure Planning and Management), 2013, 69, 53-63.	0.1	0
83	EMERGENCE OF URBAN HIERARCHIES IN ONE-DIMENSIONAL SPACE: BIFURCATION ANALYSIS OF A MULTI-INDUSTRIAL CORE-PERIPHERY MODEL WITH RELOCATION COSTS. Journal of Japan Society of Civil Engineers Ser D3 (Infrastructure Planning and Management), 2013, 69, 250-266.	0.1	0
84	AGGLOMERATION PATTERNS OF A CORE-PERIPHERY MODEL WITH MULTI-SCALE SPATIAL STRUCTURE. Journal of Japan Society of Civil Engineers Ser D3 (Infrastructure Planning and Management), 2014, 70, 113-130.	0.1	0
85	DYNAMIC SYSTEM OPTIMAL TRAFFIC CONTROL BASED ON REALTIME OBSERVATION OF STOCHASTIC TRAVEL TIME. Doboku Gakkai Ronbunshuu D, 2007, 63, 311-327.	0.0	0
86	EQUILIBRIUM DYNAMICS OF INTERREGIONAL MIGRATION TIMING DECISION IN AGGLOMERATION ECONOMIES. Doboku Gakkai Ronbunshuu D, 2007, 63, 567-578.	0.0	0
87	A CORE-PERIPHERY MODEL WITH A KNOWLEDGE TRANSFER MECHANISM. Doboku Gakkai Ronbunshuu D, 2008, 64, 239-251.	0.0	0
88	Bifurcation Analysis of a Core-Periphery Model on a Two-dimensional Triangular Lattice. Infrastructure Planning Review, 2010, 27, 109-120.	0.1	0
89	MODELING SPATIAL AGGLOMERATION WITH INPUT-OUTPUT LINKAGES AND MULTI-SCALE SPATIAL STRUCTURE. Journal of Japan Society of Civil Engineers Ser D3 (Infrastructure Planning and) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T		
90	STABILITY OF TRAFFIC CONGESTION PATTERNS AND MACROSCOPIC FUNDAMENTAL DIAGRAMS IN TOKYO METROPOLITAN EXPRESSWAY NETWORK. Journal of Japan Society of Civil Engineers Ser D3 (Infrastructure Planning and Management), 2019, 75, 97-108.	0.1	0