Ioannis Ch Paschalidis

List of Publications by Year
in descending order

154 papers	3,156 citations

218592

26 h-index	50 g-index

189801

160 all docs	160 docs citations	160 times ranked	3616 citing authors

#	Article	IF	Citations
1	Automated detection of mild cognitive impairment and dementia from voice recordings: A natural language processing approach. Alzheimer's and Dementia, 2023, 19, 946-955.	0.4	16
2	Routing and Rebalancing Intermodal Autonomous Mobility-on-Demand Systems in Mixed Traffic. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 12263-12275.	4.7	17
3	Machine Learning for Pharmacogenomics and Personalized Medicine: A Ranking Model for Drug Sensitivity Prediction. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2022, 19, 2324-2333.	1.9	6
4	HPC Data Center Participation in Demand Response: An Adaptive Policy With QoS Assurance. IEEE Transactions on Sustainable Computing, 2022, 7, 157-171.	2.2	7
5	A Sharp Estimate on the Transient Time of Distributed Stochastic Gradient Descent. IEEE Transactions on Automatic Control, 2022, 67, 5900-5915.	3.6	11
6	Predictive models of pregnancy based on data from a preconception cohort study. Human Reproduction, 2022, 37, 565-576.	0.4	10
7	Informative predictors of pregnancy after first IVF cycle using eIVF practice highway electronic health records. Scientific Reports, 2022, 12, 839.	1.6	5
8	Joint Data-Driven Estimation of Origin–Destination Demand and Travel Latency Functions in Multiclass Transportation Networks. IEEE Transactions on Control of Network Systems, 2022, 9, 1576-1588.	2.4	4
9	Development and validation of predictive models for COVID-19 outcomes in a safety-net hospital population. Journal of the American Medical Informatics Association: JAMIA, 2022, 29, 1253-1262.	2.2	9
10	Robust Grouped Variable Selection Using Distributionally Robust Optimization. Journal of Optimization Theory and Applications, 2022, 194, 1042-1071.	0.8	2
11	Learning parametric policies and transition probability models of markov decision processes from data. European Journal of Control, 2021, 57, 68-75.	1.6	1
12	Improved cluster ranking in protein–protein docking using a regression approach. Computational and Structural Biotechnology Journal, 2021, 19, 2269-2278.	1.9	6
13	Detection of dementia on voice recordings using deep learning: a Framingham Heart Study. Alzheimer's Research and Therapy, 2021, 13, 146.	3.0	29
14	An Artificial Intelligence-Assisted Method for Dementia Detection Using Images from the Clock Drawing Test. Journal of Alzheimer's Disease, 2021, 83, 581-589.	1.2	19
15	The impact of payer status on hospital admissions: evidence from an academic medical center. BMC Health Services Research, 2021, 21, 930.	0.9	4
16	An optimal transmission line switching and bus splitting heuristic incorporating AC and N-1 contingency constraints. International Journal of Electrical Power and Energy Systems, 2021, 133, 107278.	3.3	8
17	Planning Strategies for Lane Reversals in Transportation Networks. , 2021, , .		0
18	Learning from animals: How to Navigate Complex Terrains. PLoS Computational Biology, 2020, 16, e1007452.	1.5	4

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19	Personalized predictive models for symptomatic COVID-19 patients using basic preconditions: Hospitalizations, mortality, and the need for an ICU or ventilator. International Journal of Medical Informatics, 2020, 142, 104258.	1.6	50
20	Prescriptive analytics for reducing 30-day hospital readmissions after general surgery. PLoS ONE, 2020, 15, e0238118.	1.1	4
21	Editorial: The IEEE Transactions on Control of Network Systems and the Evolution of the Field. IEEE Transactions on Control of Network Systems, 2020, 7, 2-5.	2.4	1
22	A neural circuit model for a contextual association task inspired by recommender systems. Hippocampus, 2020, 30, 384-395.	0.9	10
23	Physiological and socioeconomic characteristics predict COVID-19 mortality and resource utilization in Brazil. PLoS ONE, 2020, 15, e0240346.	1.1	42
24	Distributionally Robust Learning. Foundations and Trends® in Optimization, 2020, 4, 1-243.	7.2	16
25	Predictive Models of Mortality for Hospitalized Patients With COVID-19: Retrospective Cohort Study. JMIR Medical Informatics, 2020, 8, e21788.	1.3	11
26	Early prediction of level-of-care requirements in patients with COVID-19. ELife, 2020, 9, .	2.8	46
27	Asymptotic Network Independence in Distributed Stochastic Optimization for Machine Learning: Examining Distributed and Centralized Stochastic Gradient Descent. IEEE Signal Processing Magazine, 2020, 37, 114-122.	4.6	21
28	Joint Pricing and Rebalancing of Autonomous Mobility-on-Demand Systems. , 2020, , .		8
29	Robust Asynchronous Stochastic Gradient-Push: Asymptotically Optimal and Network-Independent Performance for Strongly Convex Functions. Journal of Machine Learning Research, 2020, 21, .	62.4	1
30	Congestion-aware Routing and Rebalancing of Autonomous Mobility-on-Demand Systems in Mixed Traffic. , 2020, , .		14
31	Explainability of Intelligent Transportation Systems using Knowledge Compilation: a Traffic Light Controller Case. , 2020, , .		2
32	Coordinated Demand Response By Data Centers Using Inverse Optimization. , 2020, , .		1
33	Prescriptive analytics for reducing 30-day hospital readmissions after general surgery. , 2020, 15, e0238118.		0
34	Prescriptive analytics for reducing 30-day hospital readmissions after general surgery. , 2020, 15, e0238118.		0
35	Prescriptive analytics for reducing 30-day hospital readmissions after general surgery. , 2020, 15, e0238118.		0
36	Title is missing!. , 2020, 15, e0240346.		0

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37	Title is missing!. , 2020, 15, e0240346.		0
38	Title is missing!. , 2020, 15, e0240346.		0
39	Title is missing!. , 2020, 15, e0240346.		0
40	Data Center Participation in Demand Response Programs with Quality-of-Service Guarantees. , 2019, , .		8
41	Prescriptive Cluster-Dependent Support Vector Machines with an Application to Reducing Hospital Readmissions *. , 2019, , .		2
42	Detection of unwarranted CT radiation exposure from patient and imaging protocol meta-data using regularized regression. European Journal of Radiology Open, 2019, 6, 206-211.	0.7	6
43	Learning From Past Bids to Participate Strategically in Day-Ahead Electricity Markets. IEEE Transactions on Smart Grid, 2019, 10, 5794-5806.	6.2	38
44	A Distributionally Robust Optimization Approach for Multivariate Linear Regression under the Wasserstein Metric. , 2019, , .		0
45	Convergence of Parameter Estimates for Regularized Mixed Linear Regression Models*. , 2019, , .		1
46	Joint Estimation of OD Demands and Cost Functions in Transportation Networks from Data. , 2019, , .		6
47	Learning Parameterized Prescription Policies and Disease Progression Dynamics using Markov Decision Processes. , 2019, , .		0
48	Learning Policies for Markov Decision Processes From Data. IEEE Transactions on Automatic Control, 2019, 64, 2298-2309.	3.6	11
49	Predicting diabetes-related hospitalizations based on electronic health records. Statistical Methods in Medical Research, 2019, 28, 3667-3682.	0.7	21
50	Distributed MPC for Coordinated Energy Efficiency Utilization in Microgrid Systems. IEEE Transactions on Smart Grid, 2019, 10, 1781-1790.	6.2	47
51	A Hebbian learning algorithm for training a neural circuit to perform context-dependent associations of stimuli. , 2019, , .		1
52	Context-Driven Concept Annotation in Radiology Reports: Anatomical Phrase Labeling. AMIA Summits on Translational Science Proceedings, 2019, 2019, 232-241.	0.4	1
53	Federated learning of predictive models from federated Electronic Health Records. International Journal of Medical Informatics, 2018, 112, 59-67.	1.6	492
54	Statistical Anomaly Detection via Composite Hypothesis Testing for Markov Models. IEEE Transactions on Signal Processing, 2018, 66, 589-602.	3.2	24

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55	Predicting Chronic Disease Hospitalizations from Electronic Health Records: An Interpretable Classification Approach. Proceedings of the IEEE, 2018, 106, 690-707.	16.4	54
56	Protein docking refinement by convex underestimation in the low-dimensional subspace of encounter complexes. Scientific Reports, 2018, 8, 5896.	1.6	5
57	Outlier Detection Using Robust Optimization with Uncertainty Sets Constructed from Risk Measures. Performance Evaluation Review, 2018, 45, 174-179.	0.4	1
58	The Price of Anarchy in Transportation Networks: Data-Driven Evaluation and Reduction Strategies. Proceedings of the IEEE, 2018, 106, 538-553.	16.4	43
59	A Distributionally Robust Optimization Approach for Outlier Detection *. , 2018, , .		2
60	Neural circuits for learning context-dependent associations of stimuli. Neural Networks, 2018, 107, 48-60.	3.3	8
61	A Robust Learning Approach for Regression Models Based on Distributionally Robust Optimization. Journal of Machine Learning Research, 2018, 19, 517-564.	62.4	5
62	Botnet Detection Based on Anomaly and Community Detection. IEEE Transactions on Control of Network Systems, 2017, 4, 392-404.	2.4	72
63	An Actor-Critic Algorithm With Second-Order Actor and Critic. IEEE Transactions on Automatic Control, 2017, 62, 2689-2703.	3.6	8
64	Feature extraction in Q-learning using neural networks. , 2017, , .		5
65	Anomaly detection in transportation networks using machine learning techniques. , 2017, , .		5
66	Data-driven Estimation of Origin-Destination Demand and User Cost Functions for the Optimization of Transportation Networks * *Research partially supported by the NSF under grants CNS-1239021, ECCS-1509084, CCF-1527292, IIS-1237022, and IIP-1430145, by the AFOSR under grant FA9550-15-1-0471, by the ARO under grants W911NF-11-1-0227 and W911NF-12-1-0390, and by The MathWorks.. IFAC-PapersOnLine, 2017, 50, 9680-9685.	0.5	3
67	Strategic equilibrium bidding for electricity suppliers in a day-ahead market using inverse optimization. , 2017, , .		5
68	Focused grid–based resampling for protein docking and mapping. Journal of Computational Chemistry, 2016, 37, 961-970.	1.5	6
69	Cooperative multi-quadrotor pursuit of an evader in an environment with no-fly zones. , 2016, , .		27
70	The price of anarchy in transportation networks by estimating user cost functions from actual traffic data. , 2016, , .		19
71	A joint sparse clustering and classification approach with applications to hospitalization prediction. , 2016, , .		7
72	Learning parameterized policies for Markov decision processes through demonstrations. , 2016, , .		3

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73	Mapping the landscape of metabolic goals of a cell. Genome Biology, 2016, 17, 109.	3.8	49
74	Sensing and Classifying Roadway Obstacles in Smart Cities: The Street Bump System. IEEE Access, 2016, 4, 1301-1312.	2.6	58
75	Provision of Regulation Service by Smart Buildings. IEEE Transactions on Smart Grid, 2016, 7, 1683-1693.	6.2	19
76	Accounting for observed small angle X‑ray scattering profile in the protein–protein docking server cluspro. Journal of Computational Chemistry, 2015, 36, 1568-1572.	1.5	27
77	Heparin requirements for full anticoagulation are higher for patients on dabigatran than for those on warfarin – a model-based study. Clinical Pharmacology: Advances and Applications, 2015, 7, 19.	0.8	2
78	Robust Fluid Processing Networks. IEEE Transactions on Automatic Control, 2015, 60, 715-728.	3.6	17
79	An improved composite hypothesis test for Markov models with applications in network anomaly detection. , 2015, , .		4
80	Learning cellular objectives from fluxes by inverse optimization. , 2015, , .		4
81	Data-driven estimation in equilibrium using inverse optimization. Mathematical Programming, 2015, 153, 595-633.	1.6	104
82	Energy Minimization on Manifolds for Docking Flexible Molecules. Journal of Chemical Theory and Computation, 2015, 11, 1063-1076.	2.3	24
83	The Impact of Side-Chain Packing on Protein Docking Refinement. Journal of Chemical Information and Modeling, 2015, 55, 872-881.	2.5	15
84	Statistical Traffic Anomaly Detection in Time-Varying Communication Networks. IEEE Transactions on Control of Network Systems, 2015, 2, 100-111.	2.4	25
85	A Message-Passing Algorithm for Wireless Network Scheduling. IEEE/ACM Transactions on Networking, 2015, 23, 1528-1541.	2.6	16
86	Temporal logic motion control using actor–critic methods. International Journal of Robotics Research, 2015, 34, 1329-1344.	5.8	21
87	Distribution-dependent robust linear optimization with applications to inventory control. Annals of Operations Research, 2015, 231, 229-263.	2.6	9
88	Prediction of hospitalization due to heart diseases by supervised learning methods. International Journal of Medical Informatics, 2015, 84, 189-197.	1.6	106
89	Optimization on the space of rigid and flexible motions: An alternative manifold optimization approach. , 2014, 2014, 5825-5830.		1
90	Robust anomaly detection in dynamic networks. , 2014, , .		1

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91	A Subspace Semi-Definite programming-based Underestimation (SSDU) method for stochastic global optimization in protein docking. , 2014, 2014, 4623-4628.		1
92	A Hessian actor-critic algorithm. , 2014, , .		1
93	Botnet detection using social graph analysis. , 2014, , .		9
94	Efficient Maintenance and Update of Nonbonded Lists in Macromolecular Simulations. Journal of Chemical Theory and Computation, 2014, 10, 4449-4454.	2.3	2
95	The Inaugural Issue of the IEEE Transactions on Control of Network Systems. IEEE Transactions on Control of Network Systems, 2014, 1, 1-3.	2.4	2
96	Encounter complexes and dimensionality reduction in protein–protein association. ELife, 2014, 3, e01370.	2.8	61
97	Scheduling Mobile Nodes for Cooperative Data Transport in Sensor Networks. IEEE/ACM Transactions on Networking, 2013, 21, 974-989.	2.6	19
98	Distributed Scheduling of Wireless Networks: A Message Passing Approach. , 2013, , .		1
99	Network anomaly detection: A survey and comparative analysis of stochastic and deterministic methods. , 2013, , .		9
100	Model-Free Stochastic Localization of CBRN Releases. IEEE Transactions on Signal Processing, 2013, 61, 4246-4258.	3.2	2
101	Flexible refinement of protein-ligand docking on manifolds. , 2013, , 1392-1397.		2
102	Smart building real time pricing for offering load-side Regulation Service reserves. , 2013, , .		5
103	A new distributed algorithm for side-chain positioning in the process of protein docking. , 2013, , 739-744.		3
104	A predictive model for the anticoagulant bivalirudin administered to cardiac surgical patients. , 2013, , 121-126.		2
105	Inverse Optimization: A New Perspective on the Black-Litterman Model. Operations Research, 2012, 60, 1389-1403.	1.2	80
106	Robust Maximum Lifetime Routing and Energy Allocation in Wireless Sensor Networks. International Journal of Distributed Sensor Networks, 2012, 8, 523787.	1.3	13
107	A new approach to rigid body minimization with application to molecular docking. , 2012, , 2983-2988.		4
108	Temporal logic motion control using actor-critic methods. , 2012, , .		7

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109	Stochastic localization of CBRN releases. , 2012, , .		2
110	Rigid Body Energy Minimization on Manifolds for Molecular Docking. Journal of Chemical Theory and Computation, 2012, 8, 4374-4380.	2.3	22
111	Animal-inspired optimal foraging via a distributed actor-critic algorithm. , 2012, , .		2
112	Provision of regulation service reserves by flexible distributed loads. , 2012, , .		16
113	A message passing approach to Side Chain Positioning with applications in protein docking refinement. , 2012, , 2310-2315.		3
114	Demand-Side Management for Regulation Service Provisioning Through Internal Pricing. IEEE Transactions on Power Systems, 2012, 27, 1531-1539.	4.6	58
115	A least squares temporal difference actorâ€"critic algorithm with applications to warehouse management. Naval Research Logistics, 2012, 59, 197-211.	1.4	17
116	Improved delay-minimized data harvesting with mobile elements in wireless sensor networks. , 2011, , .		10
117	Energy Optimized Topologies for Distributed Averaging in Wireless Sensor Networks. IEEE Transactions on Automatic Control, 2011, 56, 2290-2304.	3.6	10
118	Mobile agent coordination via a distributed actor-critic algorithm. , 2011, , .		2
119	A market-based mechanism for providing demand-side regulation service reserves. , 2011, , .		23
120	Optimizing Warehouse Forklift Dispatching Using a Sensor Network and Stochastic Learning. IEEE Transactions on Industrial Informatics, 2011, 7, 476-486.	7.2	24
121	Least squares temporal difference actor-critic methods with applications to robot motion control. , 2011, , .		4
122	Guest Editorial Special Issue on Wireless Sensor and Actuator Networks. IEEE Transactions on Automatic Control, 2011, 56, 2244-2246.	3.6	44
123	Achieving reliability and high accuracy in automated protein docking: Cluspro, PIPER, SDU, and stability analysis in CAPRI rounds 13â€"19. Proteins: Structure, Function and Bioinformatics, 2010, 78, 3124-3130.	1.5	211
124	The capacity of sparse networks under controlled mobility. , 2010, , .		1
125	On distributed multiple access control for wireless sensor networks. , 2010, , .		1
126	An actor-critic method using Least Squares Temporal Difference learning. , 2009, , .		9

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127	Production planning and quality of service allocation across the supply chain in a dynamic lead time model. , 2009, , .		1
128	On energy optimized averaging in wireless sensor networks. , 2009, , .		2
129	Robust and distributed stochastic localization in sensor networks. ACM Transactions on Sensor Networks, 2009, 5, 1-22.	2.3	15
130	Intelligent forklift dispatching in warehouses using a sensor network. , 2009, , .		0
131	Optimized Scheduled Multiple Access Control for Wireless Sensor Networks. IEEE Transactions on Automatic Control, 2009, 54, 2573-2585.	3.6	12
132	Spatio-Temporal Network Anomaly Detection by Assessing Deviations of Empirical Measures. IEEE/ACM Transactions on Networking, 2009, 17, 685-697.	2.6	106
133	Anomaly detection in sensor networks based on large deviations of Markov chain models. , 2008, , .		8
134	On robust maximum lifetime routing in wireless sensor networks. , 2008, , .		2
135	Protein Docking by the Underestimation of Free Energy Funnels in the Space of Encounter Complexes. PLoS Computational Biology, 2008, 4, e1000191.	1.5	41
136	Asymptotically Optimal Transmission Policies for Large-Scale Low-Power Wireless Sensor Networks. IEEE/ACM Transactions on Networking, 2007, 15, 105-118.	2.6	20
137	SDU: A Semidefinite Programming-Based Underestimation Method for Stochastic Global Optimization in Protein Docking. IEEE Transactions on Automatic Control, 2007, 52, 664-676.	3.6	20
138	Optimizing noisy funnel-like functions on the euclidean group with applications to protein docking. , 2007, , .		2
139	Optimal transmission scheduling policies for wireless sensor networks with frequency diversity. , 2007, , .		2
140	Solving sensor network coverage problems by distributed asynchronous actor-critic methods. , 2007, , .		3
141	Tractable supply chain production planning, modeling nonlinear lead time and quality of service constraints. Journal of Manufacturing Systems, 2007, 26, 116-134.	7.6	19
142	Routing through noise and sleeping nodes in sensor networks: latency vs. energy trade-offs. , 2006, , .		9
143	Protein-protein docking with reduced potentials by exploiting multi-dimensional energy funnels. , 2006, 2006, 5330-3.		4
144	A Large Deviations Approach to Statistical Traffic Anomaly Detection. , 2006, , .		2

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145	Combining MPC and LD Analysis in Supply Chain Inventory Control Problem. , 2006, , .		2
146	Inventory Control for Supply Chains with Service Level Constraints: A Synergy between Large Deviations and Perturbation Analysis. Annals of Operations Research, 2004, 126, 231-258.	2.6	30
147	Large Deviations-Based Asymptotics for Inventory Control in Supply Chains. Operations Research, 2003, 51, 437-460.	1.2	17
148	Probabilistic Service Level Guarantees in Make-to-Stock Manufacturing Systems. Operations Research, 2001, 49, 119-133.	1.2	68
149	Model-based estimation of buffer overflow probabilities from measurements. Performance Evaluation Review, 2001, 29, 154-163.	0.4	2
150	Model-based estimation of buffer overflow probabilities from measurements. , 2001, , .		3
151	Class-specific quality of service guarantees in multimedia communication networks. Automatica, 1999, 35, 1951-1968.	3.0	28
152	Large deviations analysis of the generalized processor sharing policy. Queueing Systems, 1999, 32, 319-349.	0.6	42
153	On the large deviations behavior of acyclic networks of $G/G/1$ queues. Annals of Applied Probability, 1998, 8, .	0.6	42
154	Optimization of Multiclass Queueing Networks: Polyhedral and Nonlinear Characterizations of Achievable Performance. Annals of Applied Probability, 1994, 4, 43.	0.6	131