

# Ioannis Ch Paschalidis

## List of Publications by Year in descending order

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154  
papers

3,156  
citations

218592

26  
h-index

189801

50  
g-index

160  
all docs

160  
docs citations

160  
times ranked

3616  
citing authors

#	ARTICLE	IF	CITATIONS
1	Federated learning of predictive models from federated Electronic Health Records. International Journal of Medical Informatics, 2018, 112, 59-67.	1.6	492
2	Achieving reliability and high accuracy in automated protein docking: Cluspro, PIPER, SDU, and stability analysis in CAPRI rounds 13-19. Proteins: Structure, Function and Bioinformatics, 2010, 78, 3124-3130.	1.5	211
3	Optimization of Multiclass Queueing Networks: Polyhedral and Nonlinear Characterizations of Achievable Performance. Annals of Applied Probability, 1994, 4, 43.	0.6	131
4	Spatio-Temporal Network Anomaly Detection by Assessing Deviations of Empirical Measures. IEEE/ACM Transactions on Networking, 2009, 17, 685-697.	2.6	106
5	Prediction of hospitalization due to heart diseases by supervised learning methods. International Journal of Medical Informatics, 2015, 84, 189-197.	1.6	106
6	Data-driven estimation in equilibrium using inverse optimization. Mathematical Programming, 2015, 153, 595-633.	1.6	104
7	Inverse Optimization: A New Perspective on the Black-Litterman Model. Operations Research, 2012, 60, 1389-1403.	1.2	80
8	Botnet Detection Based on Anomaly and Community Detection. IEEE Transactions on Control of Network Systems, 2017, 4, 392-404.	2.4	72
9	Probabilistic Service Level Guarantees in Make-to-Stock Manufacturing Systems. Operations Research, 2001, 49, 119-133.	1.2	68
10	Encounter complexes and dimensionality reduction in protein-protein association. ELife, 2014, 3, e01370.	2.8	61
11	Demand-Side Management for Regulation Service Provisioning Through Internal Pricing. IEEE Transactions on Power Systems, 2012, 27, 1531-1539.	4.6	58
12	Sensing and Classifying Roadway Obstacles in Smart Cities: The Street Bump System. IEEE Access, 2016, 4, 1301-1312.	2.6	58
13	Predicting Chronic Disease Hospitalizations from Electronic Health Records: An Interpretable Classification Approach. Proceedings of the IEEE, 2018, 106, 690-707.	16.4	54
14	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
15	Mapping the landscape of metabolic goals of a cell. Genome Biology, 2016, 17, 109.	3.8	49
16	Distributed MPC for Coordinated Energy Efficiency Utilization in Microgrid Systems. IEEE Transactions on Smart Grid, 2019, 10, 1781-1790.	6.2	47
17	Early prediction of level-of-care requirements in patients with COVID-19. ELife, 2020, 9, .	2.8	46
18	Guest Editorial Special Issue on Wireless Sensor and Actuator Networks. IEEE Transactions on Automatic Control, 2011, 56, 2244-2246.	3.6	44

#	ARTICLE	IF	CITATIONS
19	The Price of Anarchy in Transportation Networks: Data-Driven Evaluation and Reduction Strategies. Proceedings of the IEEE, 2018, 106, 538-553.	16.4	43
20	Large deviations analysis of the generalized processor sharing policy. Queueing Systems, 1999, 32, 319-349.	0.6	42
21	On the large deviations behavior of acyclic networks of $G/G/1$ queues. Annals of Applied Probability, 1998, 8, .	0.6	42
22	Physiological and socioeconomic characteristics predict COVID-19 mortality and resource utilization in Brazil. PLoS ONE, 2020, 15, e0240346.	1.1	42
23	Protein Docking by the Underestimation of Free Energy Funnels in the Space of Encounter Complexes. PLoS Computational Biology, 2008, 4, e1000191.	1.5	41
24	Learning From Past Bids to Participate Strategically in Day-Ahead Electricity Markets. IEEE Transactions on Smart Grid, 2019, 10, 5794-5806.	6.2	38
25	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
26	Detection of dementia on voice recordings using deep learning: a Framingham Heart Study. Alzheimer's Research and Therapy, 2021, 13, 146.	3.0	29
27	Class-specific quality of service guarantees in multimedia communication networks. Automatica, 1999, 35, 1951-1968.	3.0	28
28	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
29	Cooperative multi-quadrotor pursuit of an evader in an environment with no-fly zones. , 2016, , .		27
30	Statistical Traffic Anomaly Detection in Time-Varying Communication Networks. IEEE Transactions on Control of Network Systems, 2015, 2, 100-111.	2.4	25
31	Optimizing Warehouse Forklift Dispatching Using a Sensor Network and Stochastic Learning. IEEE Transactions on Industrial Informatics, 2011, 7, 476-486.	7.2	24
32	Energy Minimization on Manifolds for Docking Flexible Molecules. Journal of Chemical Theory and Computation, 2015, 11, 1063-1076.	2.3	24
33	Statistical Anomaly Detection via Composite Hypothesis Testing for Markov Models. IEEE Transactions on Signal Processing, 2018, 66, 589-602.	3.2	24
34	A market-based mechanism for providing demand-side regulation service reserves. , 2011, , .		23
35	Rigid Body Energy Minimization on Manifolds for Molecular Docking. Journal of Chemical Theory and Computation, 2012, 8, 4374-4380.	2.3	22
36	Temporal logic motion control using actor-critic methods. International Journal of Robotics Research, 2015, 34, 1329-1344.	5.8	21

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37	Predicting diabetes-related hospitalizations based on electronic health records. <i>Statistical Methods in Medical Research</i> , 2019, 28, 3667-3682.	0.7	21
38	Asymptotic Network Independence in Distributed Stochastic Optimization for Machine Learning: Examining Distributed and Centralized Stochastic Gradient Descent. <i>IEEE Signal Processing Magazine</i> , 2020, 37, 114-122.	4.6	21
39	Asymptotically Optimal Transmission Policies for Large-Scale Low-Power Wireless Sensor Networks. <i>IEEE/ACM Transactions on Networking</i> , 2007, 15, 105-118.	2.6	20
40	SDU: A Semidefinite Programming-Based Underestimation Method for Stochastic Global Optimization in Protein Docking. <i>IEEE Transactions on Automatic Control</i> , 2007, 52, 664-676.	3.6	20
41	Tractable supply chain production planning, modeling nonlinear lead time and quality of service constraints. <i>Journal of Manufacturing Systems</i> , 2007, 26, 116-134.	7.6	19
42	Scheduling Mobile Nodes for Cooperative Data Transport in Sensor Networks. <i>IEEE/ACM Transactions on Networking</i> , 2013, 21, 974-989.	2.6	19
43	The price of anarchy in transportation networks by estimating user cost functions from actual traffic data. , 2016, , .		19
44	Provision of Regulation Service by Smart Buildings. <i>IEEE Transactions on Smart Grid</i> , 2016, 7, 1683-1693.	6.2	19
45	An Artificial Intelligence-Assisted Method for Dementia Detection Using Images from the Clock Drawing Test. <i>Journal of Alzheimer's Disease</i> , 2021, 83, 581-589.	1.2	19
46	Large Deviations-Based Asymptotics for Inventory Control in Supply Chains. <i>Operations Research</i> , 2003, 51, 437-460.	1.2	17
47	A least squares temporal difference actor-critic algorithm with applications to warehouse management. <i>Naval Research Logistics</i> , 2012, 59, 197-211.	1.4	17
48	Robust Fluid Processing Networks. <i>IEEE Transactions on Automatic Control</i> , 2015, 60, 715-728.	3.6	17
49	Routing and Rebalancing Intermodal Autonomous Mobility-on-Demand Systems in Mixed Traffic. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 12263-12275.	4.7	17
50	Provision of regulation service reserves by flexible distributed loads. , 2012, , .		16
51	A Message-Passing Algorithm for Wireless Network Scheduling. <i>IEEE/ACM Transactions on Networking</i> , 2015, 23, 1528-1541.	2.6	16
52	Distributionally Robust Learning. <i>Foundations and Trends® in Optimization</i> , 2020, 4, 1-243.	7.2	16
53	Automated detection of mild cognitive impairment and dementia from voice recordings: A natural language processing approach. <i>Alzheimer's and Dementia</i> , 2023, 19, 946-955.	0.4	16
54	Robust and distributed stochastic localization in sensor networks. <i>ACM Transactions on Sensor Networks</i> , 2009, 5, 1-22.	2.3	15

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55	The Impact of Side-Chain Packing on Protein Docking Refinement. Journal of Chemical Information and Modeling, 2015, 55, 872-881.	2.5	15
56	Congestion-aware Routing and Rebalancing of Autonomous Mobility-on-Demand Systems in Mixed Traffic. , 2020, , .		14
57	Robust Maximum Lifetime Routing and Energy Allocation in Wireless Sensor Networks. International Journal of Distributed Sensor Networks, 2012, 8, 523787.	1.3	13
58	Optimized Scheduled Multiple Access Control for Wireless Sensor Networks. IEEE Transactions on Automatic Control, 2009, 54, 2573-2585.	3.6	12
59	Learning Policies for Markov Decision Processes From Data. IEEE Transactions on Automatic Control, 2019, 64, 2298-2309.	3.6	11
60	Predictive Models of Mortality for Hospitalized Patients With COVID-19: Retrospective Cohort Study. JMIR Medical Informatics, 2020, 8, e21788.	1.3	11
61	A Sharp Estimate on the Transient Time of Distributed Stochastic Gradient Descent. IEEE Transactions on Automatic Control, 2022, 67, 5900-5915.	3.6	11
62	Improved delay-minimized data harvesting with mobile elements in wireless sensor networks. , 2011, , .		10
63	Energy Optimized Topologies for Distributed Averaging in Wireless Sensor Networks. IEEE Transactions on Automatic Control, 2011, 56, 2290-2304.	3.6	10
64	A neural circuit model for a contextual association task inspired by recommender systems. Hippocampus, 2020, 30, 384-395.	0.9	10
65	Predictive models of pregnancy based on data from a preconception cohort study. Human Reproduction, 2022, 37, 565-576.	0.4	10
66	Routing through noise and sleeping nodes in sensor networks: latency vs. energy trade-offs. , 2006, , .		9
67	An actor-critic method using Least Squares Temporal Difference learning. , 2009, , .		9
68	Network anomaly detection: A survey and comparative analysis of stochastic and deterministic methods. , 2013, , .		9
69	Botnet detection using social graph analysis. , 2014, , .		9
70	Distribution-dependent robust linear optimization with applications to inventory control. Annals of Operations Research, 2015, 231, 229-263.	2.6	9
71	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
72	Anomaly detection in sensor networks based on large deviations of Markov chain models. , 2008, , .		8

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73	An Actor-Critic Algorithm With Second-Order Actor and Critic. IEEE Transactions on Automatic Control, 2017, 62, 2689-2703.	3.6	8
74	Neural circuits for learning context-dependent associations of stimuli. Neural Networks, 2018, 107, 48-60.	3.3	8
75	Data Center Participation in Demand Response Programs with Quality-of-Service Guarantees. , 2019, , .		8
76	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
77	Joint Pricing and Rebalancing of Autonomous Mobility-on-Demand Systems. , 2020, , .		8
78	Temporal logic motion control using actor-critic methods. , 2012, , .		7
79	A joint sparse clustering and classification approach with applications to hospitalization prediction. , 2016, , .		7
80	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
81	Focused grid-based resampling for protein docking and mapping. Journal of Computational Chemistry, 2016, 37, 961-970.	1.5	6
82	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
83	Joint Estimation of OD Demands and Cost Functions in Transportation Networks from Data. , 2019, , .		6
84	Improved cluster ranking in protein-protein docking using a regression approach. Computational and Structural Biotechnology Journal, 2021, 19, 2269-2278.	1.9	6
85	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
86	Smart building real time pricing for offering load-side Regulation Service reserves. , 2013, , .		5
87	Feature extraction in Q-learning using neural networks. , 2017, , .		5
88	Anomaly detection in transportation networks using machine learning techniques. , 2017, , .		5
89	Strategic equilibrium bidding for electricity suppliers in a day-ahead market using inverse optimization. , 2017, , .		5
90	Protein docking refinement by convex underestimation in the low-dimensional subspace of encounter complexes. Scientific Reports, 2018, 8, 5896.	1.6	5

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91	A Robust Learning Approach for Regression Models Based on Distributionally Robust Optimization. Journal of Machine Learning Research, 2018, 19, 517-564.	62.4	5
92	Informative predictors of pregnancy after first IVF cycle using eIVF practice highway electronic health records. Scientific Reports, 2022, 12, 839.	1.6	5
93	Protein-protein docking with reduced potentials by exploiting multi-dimensional energy funnels. , 2006, 2006, 5330-3.		4
94	Least squares temporal difference actor-critic methods with applications to robot motion control. , 2011, , .		4
95	A new approach to rigid body minimization with application to molecular docking. , 2012, , 2983-2988.		4
96	An improved composite hypothesis test for Markov models with applications in network anomaly detection. , 2015, , .		4
97	Learning cellular objectives from fluxes by inverse optimization. , 2015, , .		4
98	Learning from animals: How to Navigate Complex Terrains. PLoS Computational Biology, 2020, 16, e1007452.	1.5	4
99	Prescriptive analytics for reducing 30-day hospital readmissions after general surgery. PLoS ONE, 2020, 15, e0238118.	1.1	4
100	The impact of payer status on hospital admissions: evidence from an academic medical center. BMC Health Services Research, 2021, 21, 930.	0.9	4
101	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
102	Model-based estimation of buffer overflow probabilities from measurements. , 2001, , .		3
103	Solving sensor network coverage problems by distributed asynchronous actor-critic methods. , 2007, , .		3
104	A message passing approach to Side Chain Positioning with applications in protein docking refinement. , 2012, , 2310-2315.		3
105	A new distributed algorithm for side-chain positioning in the process of protein docking. , 2013, , 739-744.		3
106	Learning parameterized policies for Markov decision processes through demonstrations. , 2016, , .		3
107	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
108	Model-based estimation of buffer overflow probabilities from measurements. Performance Evaluation Review, 2001, 29, 154-163.	0.4	2

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109	A Large Deviations Approach to Statistical Traffic Anomaly Detection. , 2006, , .		2
110	Combining MPC and LD Analysis in Supply Chain Inventory Control Problem. , 2006, , .		2
111	Optimizing noisy funnel-like functions on the euclidean group with applications to protein docking. , 2007, , .		2
112	Optimal transmission scheduling policies for wireless sensor networks with frequency diversity. , 2007, , .		2
113	On robust maximum lifetime routing in wireless sensor networks. , 2008, , .		2
114	On energy optimized averaging in wireless sensor networks. , 2009, , .		2
115	Mobile agent coordination via a distributed actor-critic algorithm. , 2011, , .		2
116	Stochastic localization of CBRN releases. , 2012, , .		2
117	Animal-inspired optimal foraging via a distributed actor-critic algorithm. , 2012, , .		2
118	Model-Free Stochastic Localization of CBRN Releases. IEEE Transactions on Signal Processing, 2013, 61, 4246-4258.	3.2	2
119	Flexible refinement of protein-ligand docking on manifolds. , 2013, , 1392-1397.		2
120	A predictive model for the anticoagulant bivalirudin administered to cardiac surgical patients. , 2013, , 121-126.		2
121	Efficient Maintenance and Update of Nonbonded Lists in Macromolecular Simulations. Journal of Chemical Theory and Computation, 2014, 10, 4449-4454.	2.3	2
122	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
123	Heparin requirements for full anticoagulation are higher for patients on dabigatran than for those on warfarin &ndash; a model-based study. Clinical Pharmacology: Advances and Applications, 2015, 7, 19.	0.8	2
124	A Distributionally Robust Optimization Approach for Outlier Detection *. , 2018, , .		2
125	Prescriptive Cluster-Dependent Support Vector Machines with an Application to Reducing Hospital Readmissions *. , 2019, , .		2
126	Explainability of Intelligent Transportation Systems using Knowledge Compilation: a Traffic Light Controller Case. , 2020, , .		2



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127	Robust Grouped Variable Selection Using Distributionally Robust Optimization. Journal of Optimization Theory and Applications, 2022, 194, 1042-1071.	0.8	2
128	Production planning and quality of service allocation across the supply chain in a dynamic lead time model. , 2009, , .		1
129	The capacity of sparse networks under controlled mobility. , 2010, , .		1
130	On distributed multiple access control for wireless sensor networks. , 2010, , .		1
131	Distributed Scheduling of Wireless Networks: A Message Passing Approach. , 2013, , .		1
132	Optimization on the space of rigid and flexible motions: An alternative manifold optimization approach. , 2014, 2014, 5825-5830.		1
133	Robust anomaly detection in dynamic networks. , 2014, , .		1
134	A Subspace Semi-Definite programming-based Underestimation (SSDU) method for stochastic global optimization in protein docking. , 2014, 2014, 4623-4628.		1
135	A Hessian actor-critic algorithm. , 2014, , .		1
136	Outlier Detection Using Robust Optimization with Uncertainty Sets Constructed from Risk Measures. Performance Evaluation Review, 2018, 45, 174-179.	0.4	1
137	Convergence of Parameter Estimates for Regularized Mixed Linear Regression Models*. , 2019, , .		1
138	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
139	Learning parametric policies and transition probability models of markov decision processes from data. European Journal of Control, 2021, 57, 68-75.	1.6	1
140	A Hebbian learning algorithm for training a neural circuit to perform context-dependent associations of stimuli. , 2019, , .		1
141	Context-Driven Concept Annotation in Radiology Reports: Anatomical Phrase Labeling. AMIA Summits on Translational Science Proceedings, 2019, 2019, 232-241.	0.4	1
142	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
143	Coordinated Demand Response By Data Centers Using Inverse Optimization. , 2020, , .		1
144	Intelligent forklift dispatching in warehouses using a sensor network. , 2009, , .		0

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145	A Distributionally Robust Optimization Approach for Multivariate Linear Regression under the Wasserstein Metric. , 2019, , .		0
146	Learning Parameterized Prescription Policies and Disease Progression Dynamics using Markov Decision Processes. , 2019, , .		0
147	Planning Strategies for Lane Reversals in Transportation Networks. , 2021, , .		0
148	Prescriptive analytics for reducing 30-day hospital readmissions after general surgery. , 2020, 15, e0238118.		0
149	Prescriptive analytics for reducing 30-day hospital readmissions after general surgery. , 2020, 15, e0238118.		0
150	Prescriptive analytics for reducing 30-day hospital readmissions after general surgery. , 2020, 15, e0238118.		0
151	Title is missing!. , 2020, 15, e0240346.		0
152	Title is missing!. , 2020, 15, e0240346.		0
153	Title is missing!. , 2020, 15, e0240346.		0
154	Title is missing!. , 2020, 15, e0240346.		0