Vikram Krishnamurthy

List of Publications by Citations

Source: https://exaly.com/author-pdf/4392626/vikram-krishnamurthy-publications-by-citations.pdf
Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

149 papers	1,917 citations	23 h-index	39 g-index
181 ext. papers	2,380 ext. citations	4 avg, IF	5.64 L-index

#	Paper	IF	Citations
149	Decentralized dynamic spectrum access for cognitive radios: cooperative design of a non-cooperative game. *IEEE Transactions on Communications*, **2009**, 57, 459-469	6.9	125
148	Partially Observed Markov Decision Processes: From Filtering to Controlled Sensing **2016**,		111
147	Optimal Joint Session Admission Control in Integrated WLAN and CDMA Cellular Networks with Vertical Handoff. *IEEE Transactions on Mobile Computing*, **2007**, 6, 126-139	4.6	103
146	Cognitive Base Stations in LTE/3GPP Femtocells: A Correlated Equilibrium Game-Theoretic Approach. *IEEE Transactions on Communications*, **2011**, 59, 3485-3493	6.9	95
145	Transmission Scheduling for Optimizing Sensor Network Lifetime: A Stochastic Shortest Path Approach. *IEEE Transactions on Signal Processing*, **2007**, 55, 2294-2309	4.8	89
144	Structured Threshold Policies for Dynamic Sensor Scheduling—A Partially Observed Markov Decision Process Approach. *IEEE Transactions on Signal Processing*, **2007**, 55, 4938-4957	4.8	74
143	Adaptive Scheme for Caching YouTube Content in a Cellular Network: Machine Learning Approach. *IEEE Access*, **2017**, 5, 5870-5881	3.5	63
142	Collaborative Sub-Channel Allocation in Cognitive LTE Femto-Cells: A Cooperative Game-Theoretic Approach. *IEEE Transactions on Communications*, **2013**, 61, 325-334	6.9	52
141	${Q}$-Learning Algorithms for Constrained Markov Decision Processes With Randomized Monotone Policies: Application to MIMO Transmission Control. *IEEE Transactions on Signal Processing*, **2007**, 55, 2170-2181	4.8	52
140	MIMO Transmission Control in Fading Channels—A Constrained Markov Decision Process Formulation With Monotone Randomized Policies. *IEEE Transactions on Signal Processing*, **2007**, 55, 5069-5083	4.8	52
139	Optimal Threshold Policies for Multivariate POMDPs in Radar Resource Management. *IEEE Transactions on Signal Processing*, **2009**, 57, 3954-3969	4.8	46
138	A Tutorial on Interactive Sensing in Social Networks. *IEEE Transactions on Computational Social Systems*, **2014**, 1, 3-21	4.5	42
137	Distributed Energy-Aware Diffusion Least Mean Squares: Game-Theoretic Learning. *IEEE Journal on Selected Topics in Signal Processing*, **2013**, 7, 821-836	7.5	42
136	Coalition Formation for Bearings-Only Localization in Sensor Networks—A Cooperative Game Approach. *IEEE Transactions on Signal Processing*, **2010**, 58, 4322-4338	4.8	40
135	Quickest Detection POMDPs With Social Learning: Interaction of Local and Global Decision Makers. *IEEE Transactions on Information Theory*, **2012**, 58, 5563-5587	2.8	37
134	Optimality of threshold policies for transmission scheduling in correlated fading channels. *IEEE Transactions on Communications*, **2009**, 57, 2474-2483	6.9	36
133	Game Theoretic Cross-Layer Transmission Policies in Multipacket Reception Wireless Networks. *IEEE Transactions on Signal Processing*, **2007**, 55, 1911-1926	4.8	34

132	Detection of Anomalous Trajectory Patterns in Target Tracking via Stochastic Context-Free Grammars and Reciprocal Process Models. *IEEE Journal on Selected Topics in Signal Processing*, **2013**, 7, 76-90	7.5	33
131	Bayesian Sequential Detection With Phase-Distributed Change Time and Nonlinear Penalty—A POMDP Lattice Programming Approach. *IEEE Transactions on Information Theory*, **2011**, 57, 7096-7124	2.8	33
130	Interactive Sensing and Decision Making in Social Networks. *Foundations and Trends in Signal Processing*, **2014**, 7, 1-196	2.7	32
129	Optimal Channel-Aware ALOHA Protocol for Random Access in WLANs With Multipacket Reception and Decentralized Channel State Information. *IEEE Transactions on Signal Processing*, **2008**, 56, 2575-2588	4.8	32
128	Transmission control in cognitive radio as a Markovian dynamic game: Structural result on randomized threshold policies. *IEEE Transactions on Communications*, **2010**, 58, 301-310	6.9	30
127	Monotonicity of Constrained Optimal Transmission Policies in Correlated Fading Channels With ARQ. *IEEE Transactions on Signal Processing*, **2010**, 58, 438-451	4.8	29
126	Ion-Channel Biosensors—Part I: Construction, Operation, and Clinical Studies. *IEEE Nanotechnology Magazine*, **2010**, 9, 303-312	2.6	23
125	Nonparametric Demand Forecasting and Detection of Energy Aware Consumers. *IEEE Transactions on Smart Grid*, **2015**, 6, 695-704	10.7	21
124	Engagement and Popularity Dynamics of YouTube Videos and Sensitivity to Meta-Data. *IEEE Transactions on Knowledge and Data Engineering*, **2017**, 29, 1426-1437	4.2	20
123	An engineered membrane to measure electroporation: effect of tethers and bioelectronic interface. *Biophysical Journal*, **2014**, 107, 1339-51	2.9	20
122	Decentralized Spectrum Access Amongst Cognitive Radios—An Interacting Multivariate Global Game-Theoretic Approach. *IEEE Transactions on Signal Processing*, **2009**, 57, 3999-4013	4.8	20
121	Decentralized Activation in Dense Sensor Networks via Global Games. *IEEE Transactions on Signal Processing*, **2008**, 56, 4936-4950	4.8	19
120	Destination-aware target tracking via syntactic signal processing **2011**,		18
119	Spatiotemporal trajectory models for metalevel target tracking. *IEEE Aerospace and Electronic Systems Magazine*, **2015**, 30, 16-31	2.4	16
118	. *IEEE Transactions on Information Theory*, **2014**, 60, 6609-6625	2.8	16
117	. *IEEE Transactions on Automatic Control*, **2013**, 58, 2435-2450	5.9	16
116	Adaptive Caching in the YouTube Content Distribution Network: A Revealed Preference Game-Theoretic Learning Approach. *IEEE Transactions on Cognitive Communications and Networking* , **2015**, 1, 71-85	6.6	16
115	Ion Channel Biosensors—Part II: Dynamic Modeling, Analysis, and Statistical Signal Processing. *IEEE Nanotechnology Magazine*, **2010**, 9, 313-321	2.6	15

114	A Distributed Coalition Game Approach to Femto-Cloud Formation. *IEEE Transactions on Cloud Computing*, **2019**, 7, 129-140	3.3	14
113	A Methodology for Optimal Distributed Storage Planning in Smart Distribution Grids. *IEEE Transactions on Sustainable Energy*, **2018**, 9, 729-740	8.2	13
112	. *IEEE Transactions on Aerospace and Electronic Systems*, **2011**, 47, 2824-2843	3.7	13
111	Friendship paradox biases perceptions in directed networks. *Nature Communications*, **2020**, 11, 707	17.4	12
110	Moment based regression algorithms for drift and volatility estimation in continuous-time Markov switching models. *Econometrics Journal*, **2008**, 11, 244-270	2.4	12
109	Optimal and Approximate Mobility-Assisted Opportunistic Scheduling in Cellular Networks. *IEEE Transactions on Mobile Computing*, **2007**, 6, 633-648	4.6	12
108	Afriat's Test for Detecting Malicious Agents. *IEEE Signal Processing Letters*, **2012**, 19, 801-804	3.2	11
107	Mis-Information Removal in Social Networks: Constrained Estimation on Dynamic Directed Acyclic Graphs. *IEEE Journal on Selected Topics in Signal Processing*, **2013**, 7, 333-346	7.5	10
106	. *IEEE Transactions on Computational Social Systems*, **2014**, 1, 164-179	4.5	10
105	Multi-user scalable video transmission control in cognitive radio networks as a Markovian dynamic game **2009**,		10
104	Rate and distortion modeling of medium grain scalable video coding **2008**,		10
103	Joint media-channel aware unequal error protection for wireless scalable video streaming. *Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing*, **2008**,	1.6	10
102	Modeling of Loss-Distortion in Hierarchical Prediction Codecs **2006**,		10
101	Filterbased stochastic volatility in continuous-time hidden Markov models. *Econometrics and Statistics*, **2018**, 6, 1-21	0.8	9
100	Optimal adaptive modulation and coding with switching costs. *IEEE Transactions on Communications* , **2009**, 57, 697-706	6.9	9
99	Brownian dynamics simulation for modeling ion permeation across bionanotubes. *IEEE Transactions on Nanobioscience*, **2005**, 4, 102-11	3.4	9
98	**2019**, 3, 523-528		8
97	A Dynamical Games Approach to Transmission-Rate Adaptation in Multimedia WLAN. *IEEE Transactions on Signal Processing*, **2010**, 58, 3635-3646	4.8	8

96	Decentralized Node Selection for Localization in Wireless Unattended Ground Sensor Networks **2008**,		8
95	Utility Change Point Detection in Online Social Media: A Revealed Preference Framework. *IEEE Transactions on Signal Processing*, **2017**, 65, 1869-1880	4.8	7
94	Engineering aspects of biological ion channels--from biosensors to computational models for permeation. *Protoplasma*, **2012**, 249 Suppl 1, S3-9	3.4	7
93	Distributed correlated Q-learning for dynamic transmission control of sensor networks **2010**,		7
92	Average-Consensus in a Deterministic Framework Part I: Strong Connectivity. *IEEE Transactions on Signal Processing*, **2012**, 60, 6590-6603	4.8	7
91	Gramicidin Ion Channel-Based Biosensors: Construction, Stochastic Dynamical Models, and Statistical Detection Algorithms. *IEEE Sensors Journal*, **2007**, 7, 1281-1288	4	7
90	The Effect of Tethers on Artificial Cell Membranes: A Coarse-Grained Molecular Dynamics Study. *PLoS ONE*, **2016**, 11, e0162790	3.7	7
89	Inverse Filtering for Linear Gaussian State-Space Models **2018**,		7
88	What Do Your Friends Think? Efficient Polling Methods for Networks Using Friendship Paradox. *IEEE Transactions on Knowledge and Data Engineering*, **2019**, 1-1	4.2	6
87	Channel Adaptive Multi-User Scalable Video Streaming with Unequal Erasure Protection **2007**,		6
86	Adaptive Brownian dynamics simulation for estimating potential mean force in ion channel permeation. *IEEE Transactions on Nanobioscience*, **2006**, 5, 126-38	3.4	6
85	Adaptive learning algorithms for nernst potential and I-V curves in nerve cell membrane ion channels modeled as hidden Markov models. *IEEE Transactions on Nanobioscience*, **2003**, 2, 266-78	3.4	6
84	Sequential Detection of Market Shocks With Risk-Averse CVaR Social Sensors. *IEEE Journal on Selected Topics in Signal Processing*, **2016**, 10, 1061-1072	7.5	6
83	. *IEEE Transactions on Signal Processing*, **2019**, 67, 6511-6525	4.8	6
82	Diffusion in Social Networks: Effects of Monophilic Contagion, Friendship Paradox, and Reactive Networks. *IEEE Transactions on Network Science and Engineering*, **2020**, 7, 1121-1132	4.9	6
81	Syntactic Models for Trajectory Constrained Track-Before-Detect. *IEEE Transactions on Signal Processing*, **2014**, 62, 6130-6142	4.8	5
80	Real-time joint rate and protection allocation for multi-user scalable video streaming **2008**,		5
79	Game Theoretic Rate Adaptation for Spectrum-Overlay Cognitive Radio Networks **2008**,		5

78	Tracking Infection Diffusion in Social Networks: Filtering Algorithms and Threshold Bounds. *IEEE Transactions on Signal and Information Processing Over Networks*, **2017**, 3, 298-315	2.8	4
77	Transmission control in cognitive radio systems with latency constraints as a switching control dynamic game **2008**,		4
76	Decentralized adaptation in sensor networks: Analysis and application of regret-based algorithms **2007**,		4
75	Inverse Filtering for Hidden Markov Models With Applications to Counter-Adversarial Autonomous Systems. *IEEE Transactions on Signal Processing*, **2020**, 68, 4987-5002	4.8	4
74	PAC Algorithms for Detecting Nash Equilibrium Play in Social Networks: From Twitter to Energy Markets. *IEEE Access*, **2016**, 4, 8147-8161	3.5	4
73	Syntactic Enhancement to VSIMM for Roadmap Based Anomalous Trajectory Detection: A Natural Language Processing Approach. *IEEE Transactions on Signal Processing*, **2018**, 66, 5212-5227	4.8	4
72	Detection of Homophilic Communities and Coordination of Interacting Meta-Agents: A Game-Theoretic Viewpoint. *IEEE Transactions on Signal and Information Processing Over Networks*, **2016**, 2, 84-101	2.8	3
71	Bayesian Multiple Target Filtering Using Random Finite Sets **2014**, 75-126		3
70	Multiple Surface-Based Biosensors for Enhanced Molecular Detection in Fluid Flow Systems. *IEEE Sensors Journal*, **2013**, 13, 1265-1273	4	3
69	Dynamic Modeling of Antimicrobial Pore Formation in Engineered Tethered Membranes. *IEEE Transactions on Molecular, Biological, and Multi-Scale Communications*, **2015**, 1, 265-276	2.3	3
68	Quickest detection of market shocks in agent based models of the order book **2012**,		3
67	On Optimality of Monotone Channel-Aware Transmission Policies: A Constrained Markov Decision Process Approach **2007**,		3
66	A method for constructing the observer trajectory in bearings-only tracking of targets with a Markovian model		3
65	Controlled hidden markov models for dynamically adapting patch clamp experiment to estimate Nernst potential of single-ion channels. *IEEE Transactions on Nanobioscience*, **2006**, 5, 115-25	3.4	3
64	Identifying Cognitive Radars - Inverse Reinforcement Learning Using Revealed Preferences. *IEEE Transactions on Signal Processing*, **2020**, 68, 4529-4542	4.8	3
63	The Friendship Paradox: Implications In Statistical Inference Of Social Networks **2019**,		3
62	. *IEEE Transactions on Signal and Information Processing Over Networks*, **2019**, 5, 1-14	2.8	3
61	Track-Before-Detect Techniques **2014**, 311-362		2

60	A Price Based Decentralized Rate Selection in IEEE 802.11 Based WLANS. *Wireless Personal Communications*, **2011**, 56, 517-534	1.9	2
59	On prolonging life-time in wireless sensor networks with application in localization: A coalitional game-theoretic approach **2010**,		2
58	Decentralized spectrum access via multivariate global games **2010**,		2
57	Truth reveling opportunistic scheduling in cognitive radio systems **2009**,		2
56	Application of Mechanism Design in Opportunistic Scheduling under Cognitive Radio Systems **2009**,		2
55	Adaptive Brownian dynamics for shape estimation of sodium ion channels. *Journal of Nanoscience and Nanotechnology*, **2007**, 7, 2273-82	1.3	2
54	A graph theoretic approach to data incest management in network centric warfare **2005**,		2
53	Convex Stochastic Dominance in Bayesian Localization, Filtering, and Controlled Sensing POMDPs. *IEEE Transactions on Information Theory*, **2020**, 66, 3187-3201	2.8	2
52	Echo Chambers and Segregation in Social Networks: Markov Bridge Models and Estimation. *IEEE Transactions on Computational Social Systems*, **2021**, 1-11	4.5	2
51	. *IEEE Transactions on Signal and Information Processing Over Networks*, **2019**, 5, 538-553	2.8	1
50	Sensor Management for Large-Scale Multisensor-Multitarget Tracking **2014**, 447-520		1
49	Angle-Only Filtering in Three Dimensions **2014**, 1-42		1
48	Particle Filtering Combined with Interval Methods for Tracking Applications **2014**, 43-74		1
47	Multitarget Tracking Using Multiple Hypothesis Tracking **2014**, 163-203		1
46	Asymptotically Efficient Identification of Known-Sensor Hidden Markov Models. *IEEE Signal Processing Letters*, **2017**, 24, 1813-1817	3.2	1
45	Performance Bounds for Target Tracking: Computationally Efficient Formulations and Associated Applications **2014**, 255-310		1
44	Reduced Complexity HMM Filtering With Stochastic Dominance Bounds: A Convex Optimization Approach. *IEEE Transactions on Signal Processing*, **2014**, 62, 6309-6322	4.8	1
43	A distributed control scheme for triangular formations with Markovian disturbances **2013**,		1

42	Semi-Markov models for brownian dynamics permeation in biological ion channels. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, **2011**, 8, 273-81	3	1
41	Interference Diversity Gain and its Application in Multi-Channel Systems: Capacity Maximization and QoS Guarantee Strategies. *IEEE Transactions on Communications*, **2011**, 59, 248-257	6.9	1
40	Quickest time detection and constrained optimal social learning with variance penalty **2010**,		1
39	Factor graph-based structural equilibria in dynamical games **2011**,		1
38	Average-Consensus in a Deterministic Framework Part II: Central Connectivity. *IEEE Transactions on Signal Processing*, **2012**, 60, 6604-6616	4.8	1
37	Stochastic multi-particle Brownian Dynamics simulation of biological ion channels: A Finite Element approach **2009**,		1
36	Combined link adaptation and traffic control scheme for MGS H.264/AVC video transmission **2009**,		1
35	SPCp1-08: Adaptive Learning of Transmission Control Policies for MIMO Fading Channels under Delay Constraint. *IEEE Global Telecommunications Conference (GLOBECOM)*, **2006**,		1
34	Optimality of Monotone Policies for Transmission Control with Switching Costs **2007**,		1
33	Stochastic Approximation Based Tracking of Correlated Equilibria for Game-Theoretic Reconfigurable Sensor Network Deployment **2006**,		1
32	Dynamic ion channel activation scheduling in patch clamp on a chip. *IEEE Transactions on Nanobioscience*, **2004**, 3, 217-24	3.4	1
31	Game Theoretic Activation and Transmission Scheduling in Unattended Ground Sensor Networks: A Correlated Equilibrium Approach349-387		1
30	What did your adversary believe Optimal Filtering and Smoothing in Counter-Adversarial Autonomous Systems **2020**,		1
29	Segregation in Social Networks: MARKOV Bridge Models and Estimation **2021**,		1
28	Risk-Averse Caching Policies for YouTube Content in Femtocell Networks using Density Forecasting. *IEEE Transactions on Cloud Computing*, **2021**, 9, 331-346	3.3	1
27	Gradient based policy optimization of constrained Markov decision processes. *Advances in Statistics, Probability and Actuarial Science*, **2012**, 503-547		0
26	Maximum Likelihood Estimation of Power-law Degree Distributions via Friendship Paradox-based Sampling. *ACM Transactions on Knowledge Discovery From Data*, **2021**, 15, 1-28	4	0
25	Multitarget Tracking Using Multiple Hypothesis Tracking **2016**, 163-202		0

24	Track-Before-Detect Techniques **2016**, 311-362		0
23	Quickest Change Detection of Time Inconsistent Anticipatory Agents. Human-Sensor and Cyber-Physical Systems. *IEEE Transactions on Signal Processing*, **2021**, 69, 1054-1069	4.8	0
22	. *IEEE Transactions on Aerospace and Electronic Systems*, **2021**, 57, 2067-2081	3.7	0
21	Efficient Inference in General Hybrid Bayesian Networks for Classification **2014**, 521-546		
20	Evaluating Multisensor Classification Performance with Bayesian Networks **2014**, 547-578		
19	Detection and Estimation of Radiological Sources **2014**, 579-616		
18	The Continuous Time Roots of the Interacting Multiple Model Filter **2014**, 127-162		
17	Tracking and Data Fusion for Ground Surveillance **2014**, 203-254		
16	Intent Inference and Detection of Anomalous Trajectories: A Metalevel Tracking Approach **2014**, 387-414		
15	Radar Resource Management for Target Tracking: A Stochastic Control Approach **2014**, 315-346		
14	Evidential Networks for Decision Support in Surveillance Systems **2014**, 661-704		
13	Distributed Detection and Decision Fusion with Applications to Wireless Sensor Networks **2014**, 617-660		
12	Advances in Data Fusion Architectures **2014**, 363-386		
11	Cross-layer radio resource allocation in packet CDMA wireless mobile networks. *Wireless Networks*, **2008**, 14, 183-198	2.5	
10	Controlled Sequential Information Fusion with Social Sensors. *IEEE Transactions on Automatic Control*, **2020**, 1-1	5.9	
9	Angle-Only Filtering in Three Dimensions **2016**, 1-42		
8	Particle Filtering Combined with Interval Methods for Tracking Applications **2016**, 43-74		
7	Bayesian Multiple Target Filtering Using Random Finite Sets **2016**, 75-126		

6	The Continuous Time Roots of the Interacting Multiple Model Filter **2016**, 127-162	
5	Tracking and Data Fusion for Ground Surveillance **2016**, 203-254	
4	Performance Bounds for Target Tracking: Computationally Efficient Formulations and Associated Applications **2016**, 255-310	
3	Advances in Data Fusion Architectures **2016**, 363-386	
2	Multi-kernel Passive Stochastic Gradient Algorithms and Transfer Learning. *IEEE Transactions on Automatic Control*, **2021**, 1-1	5.9
1	Controlling Segregation in Social Network Dynamics as an Edge Formation Game. *IEEE Transactions on Network Science and Engineering*, **2022**, 1-1	4.9