List of Publications by Year in descending order

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| | | 377584 | 175968 |
|----------|----------------|--------------|----------------|
| 123 | 3,644 | 21 | 55 |
| papers | citations | h-index | g-index |
| | | | |
| | | | |
| 100 | 100 | 100 | 1540 |
| 125 | 125 | 125 | 1349 |
| all docs | docs citations | times ranked | citing authors |
| | | | |

ΡΟΙΑΝΟ Ρ ΜΑΓΗΑΜÃΟ

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Dynamic marketing policies with rating-sensitive consumers: A mean-field games approach. European Journal of Operational Research, 2022, 299, 1079-1093. | 3.5 | 4 |
| 2 | A Recommender System for Predictive Control of Heating Systems in Economic Demand Response Programs. IEEE Open Journal of Industry Applications, 2022, 3, 79-89. | 4.8 | 2 |
| 3 | Coupling a Power Dispatch Model with a Wardrop or Mean-Field-Game Equilibrium Model. Dynamic Games and Applications, 2021, 11, 217-241. | 1.1 | 3 |
| 4 | Prevision and planning for residential agents in a transactive energy environment. Smart Energy, 2021, 2, 100019. | 2.6 | 15 |
| 5 | A Novel Mean Field Game-Based Strategy for Charging Electric Vehicles in Solar Powered Parking Lots. Energies, 2021, 14, 8517. | 1.6 | 3 |
| 6 | A Spatial Partitioning Based Crowd Evacuation Model. , 2021, , . | | 0 |
| 7 | An Inverse Nash Mean Field Game-based Strategy for the Decentralized Control of Thermostatic Loads. , 2021, , . | | 2 |
| 8 | Smart Distributed Energy Storage Controller (smartDESC). Energy, 2020, 210, 118500. | 4.5 | 5 |
| 9 | Identification of hot water end-use process of electric water heaters from energy measurements. Electric Power Systems Research, 2020, 189, 106625. | 2.1 | 6 |
| 10 | A flexibility product for electric water heater aggregators on electricity markets. Applied Energy, 2020, 280, 115168. | 5.1 | 10 |
| 11 | Adaptive Machine Learning for Automated Modeling of Residential Prosumer Agents. Energies, 2020, 13, 2250. | 1.6 | 9 |
| 12 | Collective Stochastic Discrete Choice Problems: A Min-LQG Dynamic Game Formulation. IEEE Transactions on Automatic Control, 2020, 65, 3302-3316. | 3.6 | 8 |
| 13 | A Quantilized Mean Field Game Approach To Energy Pricing With Application To Fleets Of Plug-In Electric Vehicles. , 2019, , . | | 6 |
| 14 | An integral control formulation of mean field game based large scale coordination of loads in smart grids. Automatica, 2019, 100, 312-322. | 3.0 | 42 |
| 15 | Dynamic Collective Choice: Social Optima. IEEE Transactions on Automatic Control, 2018, 63, 3487-3494. | 3.6 | 16 |
| 16 | A Dynamic Collective Choice Model with an Advertiser. Dynamic Games and Applications, 2018, 8, 490-506. | 1.1 | 4 |
| 17 | A Dynamic Game Model of Collective Choice in Multiagent Systems. IEEE Transactions on Automatic Control, 2018, 63, 768-782. | 3.6 | 18 |
| 18 | A mean field route choice game model. , 2018, , . | | 2 |

18 A mean field route choice game model. , 2018, , .

| # | Article | IF | CITATIONS |
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| 19 | Mean Field Games. , 2018, , 345-372. | | 13 |
| 20 | Éminence Grise Coalitions: On the Shaping of Public Opinion. IEEE Transactions on Control of Network Systems, 2017, 4, 133-145. | 2.4 | 11 |
| 21 | Interference Induced Games in Networked Control Systems and a Class of Dual Control Solutions * *The work of the first two authors was supported by Canada's NSERC grant 6820-2011 IFAC-PapersOnLine, 2017, 50, 14332-14337. | 0.5 | 0 |
| 22 | Limit Game Models for Climate Change Negotiations. Annals of the International Society of Dynamic Games, 2017, , 27-47. | 0.3 | 2 |
| 23 | A dynamic ride-sourcing game with many drivers. , 2017, , . | | 3 |
| 24 | Mean Field Games. , 2017, , 1-28. | | 51 |
| 25 | Mean field social control with decentralized strategies and optimality characterization. , 2016, , . | | 5 |
| 26 | Mean field game based control of dispersed energy storage devices with constrained inputs. , 2016, , . | | 4 |
| 27 | A dynamic collective choice model with an advertiser. , 2016, , . | | 4 |
| 28 | A class of interference induced games: Asymptotic Nash equilibria and parameterized cooperative solutions. Automatica, 2016, 69, 181-194. | 3.0 | 2 |
| 29 | Consensus Algorithms and the Decomposition-Separation Theorem. IEEE Transactions on Automatic Control, 2016, 61, 2357-2369. | 3.6 | 14 |
| 30 | A dynamic game model of collective choice in multi-agent systems. , 2015, , . | | 10 |
| 31 | A micro-macro traffic model based on Mean-Field Games. , 2015, , . | | 8 |
| 32 | Linear Consensus Algorithms Based on Balanced Asymmetric Chains. IEEE Transactions on Automatic Control, 2015, 60, 2808-2812. | 3.6 | 7 |
| 33 | Optimal Control of a Multistate Failure-Prone Manufacturing System under a Conditional Value-at-Risk Cost Criterion. Journal of Optimization Theory and Applications, 2015, 167, 716-732. | 0.8 | 5 |
| 34 | Consensus and disagreement in collective homing problems: A mean field games formulation. , 2014, , . | | 3 |
| 35 | A class of collective target tracking problems in energy systems: Cooperative versus non-cooperative mean field control solutions. , 2014, , . | | 5 |
| 36 | Collective target tracking mean field control for electric space heaters. , 2014, , . | | 3 |

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| 37 | Eminence grise coalitions in opinion dynamics. , 2014, , . | | Ο |
| 38 | A geometric approach towards linear consensus algorithms. , 2014, , . | | 1 |
| 39 | A Mean Field Game Synthesis of Initial Mean Consensus Problems: A Continuum Approach for Non-Gaussian Behavior\$ \$. IEEE Transactions on Automatic Control, 2014, 59, 449-455. | 3.6 | 10 |
| 40 | A stochastic hybrid state model for optimizing hedging policies in manufacturing systems with randomly occurring defects. Discrete Event Dynamic Systems: Theory and Applications, 2014, 24, 69-98. | 0.6 | 4 |
| 41 | Collective Target Tracking Mean Field Control for Markovian Jump-Driven Models of Electric Water Heating Loads. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 1867-1872. | 0.4 | 15 |
| 42 | Distributed estimation of multi-agent systems with coupling in the measurements: Bulk algorithm and approximate Kalman-type filtering. , 2014, , . | | 1 |
| 43 | Nash, Social and Centralized Solutions to Consensus Problems via Mean Field Control Theory. IEEE Transactions on Automatic Control, 2013, 58, 639-653. | 3.6 | 73 |
| 44 | Joint assignment of buffer sizes and inspection points in unreliable transfer lines with scrapping of defective parts. Production and Manufacturing Research, 2013, 1, 79-101. | 0.9 | 14 |
| 45 | Consensus algorithms and the decomposition-separation theorem. , 2013, , . | | 6 |
| 46 | Mean field based control of power system dispersed energy storage devices for peak load relief. , 2013, , . | | 27 |
| 47 | Optimal control of a Markovian failure-prone manufacturing system under a risk-averse cost criterion. , 2013, , . | | 0 |
| 48 | Decentralized estimation in a class of measurements induced mean field control problems. , 2013, , . | | 2 |
| 49 | Ergodicity and class-ergodicity of balanced asymmetric stochastic chains. , 2013, , . | | 4 |
| 50 | Distributed estimation and control for large population stochastic multi-agent systems with coupling in the measurements. , 2013, , . | | 5 |
| 51 | Theorems about ergodicity and class-ergodicity of chains with applications in known consensus models. , 2012, , . | | 11 |
| 52 | Social Optima in Mean Field LQG Control: Centralized and Decentralized Strategies. IEEE Transactions on Automatic Control, 2012, 57, 1736-1751. | 3.6 | 176 |
| 53 | Mean Field LQG Control in Leader-Follower Stochastic Multi-Agent Systems: Likelihood Ratio Based Adaptation. IEEE Transactions on Automatic Control, 2012, 57, 2801-2816. | 3.6 | 49 |
| 54 | Mean Field Analysis of Controlled Cucker-Smale Type Flocking: Linear Analysis and Perturbation Equations. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 4471-4476. | 0.4 | 22 |

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| 55 | On the Limiting Behavior of Linear or Convex Combination Based Updates of Multi-Agent Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 8819-8823. | 0.4 | 2 |
| 56 | Approximate performance analysis of CONWIP disciplines inÂunreliable nonÂhomogeneous transfer lines. Annals of Operations Research, 2011, 182, 213-233. | 2.6 | 7 |
| 57 | On consensus with a general discrete time convex combination based algorithm for multi-agent systems. , 2011, , . | | 7 |
| 58 | Optimality of a hedging-point control policy for a failure-prone manufacturing system under a probabilistic cost criterion. , 2011, , . | | 2 |
| 59 | An evolution mean field equation system of initial mean consensus behaviour: A stability analysis. , 2011, , . | | Ο |
| 60 | A solution to the initial mean consensus problem via a continuum based Mean Field control approach. , 2011, , . | | 5 |
| 61 | MEAN FIELD (NCE) FORMULATION OF ESTIMATION BASED LEADER–FOLLOWER COLLECTIVE DYNAMICS. International Journal of Robotics and Automation, 2011, 26, . | 0.1 | 12 |
| 62 | A Solution to the Consensus Problem via Stochastic Mean Field Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 323-328. | 0.4 | 13 |
| 63 | Behaviour modelling of wideband RF transmitters using Hammerstein–Wiener models. IET Circuits, Devices and Systems, 2010, 4, 282. | 0.9 | 36 |
| 64 | Social dynamics in mean field LQG control: Egoistic and altruistic agents. , 2010, , . | | 7 |
| 65 | Optimality of adaption based Mean Field control laws in leader-follower stochastic collective dynamics. , 2010, , . | | 3 |
| 66 | Synthesis of Cucker-Smale type flocking via Mean Field stochastic control theory: Nash equilibria. , 2010, , . | | 7 |
| 67 | A stochastic hybrid state model for optimizing hedging policies in manufacturing systems with randomly occurring defects. , 2010, , . | | 0 |
| 68 | Control of Admission and Routing in Loss Networks: Hybrid Dynamic Programming Equations. IEEE Transactions on Automatic Control, 2010, 55, 350-366. | 3.6 | 6 |
| 69 | The NCE (Mean Field) Principle With Locality Dependent Cost Interactions. IEEE Transactions on Automatic Control, 2010, 55, 2799-2805. | 3.6 | 66 |
| 70 | Leader-Follower Cucker-Smale Type Flocking Synthesized via Mean Field Stochastic Control Theory. Advances in Intelligent and Soft Computing, 2010, , 283-298. | 0.2 | 2 |
| 71 | Social optima in mean field LQG control: Centralized and decentralized strategies. , 2009, , . | | 6 |
| 72 | A production rate control policy for stochastic repair and remanufacturing systems. International Journal of Production Economics, 2009, 121, 39-48. | 5.1 | 23 |

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| 73 | Large population games in radial loss networks: Computationally tractable equilibria for distributed network admission control. , 2009, , . | | 0 |
| 74 | Derivation of Consensus Algorithm Dynamics from Mean Field Stochastic Control NCE Equations. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 13-18. | 0.4 | 2 |
| 75 | A stochastic control model for optimal timing of climate policies. Automatica, 2008, 44, 1545-1558. | 3.0 | 42 |
| 76 | Introduction to the special issue on stochastic modelling, control, and robust optimization at the crossroads of engineering, environmental economics, and finance. Automatica, 2008, 44, 1457-1459. | 3.0 | 1 |
| 77 | Kolmogorov equations based approximate analysis and sizing of constant work in process unreliable manufacturing system loops. , 2008, , . | | Ο |
| 78 | An improved dynamic programming algorithm for nonhomogeneous transfer line Kanban optimization. , 2008, , . | | 0 |
| 79 | A locality generalization of the NCE (Mean Field) principle: Agent specific cost interactions. , 2008, , . | | 6 |
| 80 | Distributed control for radial loss network systems via the ash Certainty Equivalence (mean field) principle. , 2008, , . | | 2 |
| 81 | Hammerstein-Wiener Model for Wideband RF Transmitters Using Base-Band Data. , 2007, , . | | 4 |
| 82 | A Hybrid Bellman Equation for systems with regional dynamics. , 2007, , . | | 19 |
| 83 | The Nash certainty equivalence principle and McKean-Vlasov systems: An invariance principle and entry adaptation. , 2007, , . | | 8 |
| 84 | Distributed control of loss network systems: Independent subnetwork behaviour in infinite networks. , 2007, , . | | 3 |
| 85 | Large-Population Cost-Coupled LQG Problems With Nonuniform Agents: Individual-Mass Behavior and Decentralized \$varepsilon\$-Nash Equilibria. IEEE Transactions on Automatic Control, 2007, 52, 1560-1571. | 3.6 | 773 |
| 86 | Polynomial-Based Pre-distortion for Wideband RF Transmitters Using Single Frequency Signal. , 2007, , | | 2 |
| 87 | An Invariance Principle in Large Population Stochastic Dynamic Games. Journal of Systems Science and Complexity, 2007, 20, 162-172. | 1.6 | 66 |
| 88 | A Hybrid Bellman Equation for Bimodal Systems. , 2007, , 656-659. | | 22 |
| 89 | Pricing for QoS Provisioning Across Multiple Internet Service Provider Domains. , 2007, , 236-246. | | 1 |
| 90 | Stochastic Hybrid Netcad Systems for Modeling Call Admission and Routing Control in Networks. , 2006, , 166-171. | | 1 |

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| 91 | STOCHASTIC HYBRID NETCAD SYSTEMS FOR MODELING CALL ADMISSION AND ROUTING CONTROL IN NETWORKS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 166-171. | 0.4 | 1 |
| 92 | Stochastic Control of Network Systems II: NETCAD Optimal Control & the HJB Equation. , 2006, , . | | 7 |
| 93 | Stochastic Control of Network Systems I: NETCAD State Space Structure & Dynamics. , 2006, , . | | 7 |
| 94 | Nash Certainty Equivalence in Large Population Stochastic Dynamic Games: Connections with the Physics of Interacting Particle Systems. , 2006, , . | | 56 |
| 95 | Linear Quadratic Regulators for Wireless Data Transmission Scheduling. , 2006, , . | | 0 |
| 96 | Large population stochastic dynamic games: closed-loop McKean-Vlasov systems and the Nash certainty equivalence principle. Communications in Information and Systems, 2006, 6, 221-252. | 0.3 | 821 |
| 97 | Degenerate Stochastic Control Problems with ExponentialCosts and Weakly Coupled Dynamics: Viscosity Solutions and a Maximum Principle. SIAM Journal on Control and Optimization, 2005, 44, 367-387. | 1.1 | 4 |
| 98 | Computationally tractable stochastic power control laws in wireless communications. IEEE Transactions on Automatic Control, 2005, 50, 263-268. | 3.6 | 6 |
| 99 | Nash Equilibria for Large-Population Linear Stochastic Systems of Weakly Coupled Agents. , 2005, , 215-252. | | 61 |
| 100 | Uplink Power Adjustment in Wireless Communication Systems: A Stochastic Control Analysis. IEEE Transactions on Automatic Control, 2004, 49, 1693-1708. | 3.6 | 67 |
| 101 | Unreliable Transfer Lines: Decomposition/Aggregation and Optimization. Annals of Operations Research, 2004, 125, 167-190. | 2.6 | 14 |
| 102 | Decomposition/Aggregation-Based Dynamic Programming Optimization of PartiallyHomogeneous UnreliableTransfer Lines. IEEE Transactions on Automatic Control, 2004, 49, 68-81. | 3.6 | 14 |
| 103 | STOCHASTIC POWER CONTROL FOR WIRELESS SYSTEMS: CENTRALIZED DYNAMIC SOLUTIONS AND ASPECTS OF DECENTRALIZED CONTROL. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 413-418. | 0.4 | 2 |
| 104 | Optimal white water and broke recirculation policies in paper mills via jump linear quadratic control. IEEE Transactions on Control Systems Technology, 2002, 10, 578-588. | 3.2 | 7 |
| 105 | Supervisory Control of Distributed Systems: Conflict Resolution. Discrete Event Dynamic Systems: Theory and Applications, 2000, 10, 131-186. | 0.6 | 40 |
| 106 | Stochastic optimal control under Poisson-distributed observations. IEEE Transactions on Automatic Control, 2000, 45, 3-13. | 3.6 | 31 |
| 107 | A Tractable Class of Maximal Hedging Policies in Multi-Part Manufacturing Systems. Discrete Event Dynamic Systems: Theory and Applications, 1998, 8, 299-331. | 0.6 | 5 |
| 108 | Control of ω-automata under state fairness assumptions. Systems and Control Letters, 1998, 33, 265-274. | 1.3 | 4 |

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| 109 | A manufacturing system with general stationary failure process: stability and IPA of hedging control policies. IEEE Transactions on Automatic Control, 1997, 42, 155-170. | 3.6 | 29 |
| 110 | Pade approximants for the transient optimization of hedging control policies in manufacturing. IEEE Transactions on Automatic Control, 1997, 42, 440-457. | 3.6 | 7 |
| 111 | A column generation method for optimal load management via control of electric water heaters. IEEE Transactions on Power Systems, 1995, 10, 1389-1400. | 4.6 | 56 |
| 112 | A physically-based computer model of aggregate electric water heating loads. IEEE Transactions on Power Systems, 1994, 9, 1209-1217. | 4.6 | 51 |
| 113 | Ergodicity of hedging control policies in single-part multiple-state manufacturing systems. IEEE Transactions on Automatic Control, 1993, 38, 340-343. | 3.6 | 19 |
| 114 | A class of models for load management application and evaluation revisited. IEEE Transactions on Power Systems, 1992, 7, 1435-1443. | 4.6 | 65 |
| 115 | A spectral algorithm for extracting power system modes from time recordings. IEEE Transactions on Power Systems, 1992, 7, 665-683. | 4.6 | 25 |
| 116 | Convergence characteristics of a maximum likelihood load model identification scheme. Automatica, 1992, 28, 885-896. | 3.0 | 10 |
| 117 | Large-scale dynamical interconnections of stochastic singular systems. Circuits, Systems, and Signal Processing, 1991, 10, 115-133. | 1.2 | 2 |
| 118 | A renewal theoretic analysis of a class of manufacturing systems. IEEE Transactions on Automatic Control, 1991, 36, 580-587. | 3.6 | 27 |
| 119 | A jump-driven Markovian electric load model. Advances in Applied Probability, 1990, 22, 564-586. | 0.4 | 1 |
| 120 | Microcomputer based power network control center simulator for education. IEEE Transactions on Power Systems, 1990, 5, 474-481. | 4.6 | 9 |
| 121 | A jump-driven Markovian electric load model. Advances in Applied Probability, 1990, 22, 564-586. | 0.4 | 34 |
| 122 | On the Statistical Properties of a Cyclic Diffusion Process Arising in the Modeling of Thermostat-Controlled Electric Power System Loads. SIAM Journal on Applied Mathematics, 1988, 48, 465-480. | 0.8 | 29 |
| 123 | Electric load model synthesis by diffusion approximation of a high-order hybrid-state stochastic system. IEEE Transactions on Automatic Control, 1985, 30, 854-860. | 3.6 | 252 |