# Laura Giarre'

## List of Publications by Year
## in descending order

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|---|---|---|---|
| 92 **papers** | 1,706 **citations** | 516215 16 **h-index** | 344852 36 **g-index** |
| 94 **all docs** | 94 **docs citations** | 94 **times ranked** | 1238 **citing authors** |

| # | ARTICLE | IF | CITATIONS |
|---|---------|----|-----------|
| 1 | Identification of linear parameter varying models. International Journal of Robust and Nonlinear Control, 2002, 12, 841-853. | 2.1 | 353 |
| 2 | Non-linear protocols for optimal distributed consensus in networks of dynamic agents. Systems and Control Letters, 2006, 55, 918-928. | 1.3 | 209 |
| 3 | Enabling independent navigation for visually impaired people through a wearable vision-based feedback system. , 2017, , . | | 91 |
| 4 | H/sub â^ž/ identification and model quality evaluation. IEEE Transactions on Automatic Control, 1997, 42, 188-199. | 3.6 | 81 |
| 5 | LPV model identification for gain scheduling control: An application to rotating stall and surge control problem. Control Engineering Practice, 2006, 14, 351-361. | 3.2 | 79 |
| 6 | Consensus for Networks with Unknown but Bounded Disturbances. SIAM Journal on Control and Optimization, 2009, 48, 1756-1770. | 1.1 | 73 |
| 7 | NARX models of an industrial power plant gas turbine. IEEE Transactions on Control Systems Technology, 2005, 13, 599-604. | 3.2 | 69 |
| 8 | Model quality evaluation in set membership identification. Automatica, 1997, 33, 1133-1139. | 3.0 | 54 |
| 9 | An Indoor and Outdoor Navigation System for Visually Impaired People. IEEE Access, 2019, 7, 170406-170418. | 2.6 | 42 |
| 10 | Deep Trail-Following Robotic Guide Dog in Pedestrian Environments for People who are Blind and Visually Impaired - Learning from Virtual and Real Worlds. , 2018, , . | | 41 |
| 11 | Mechanism Design for Optimal Consensus Problems. , 2006, , . | | 32 |
| 12 | Model identification of a network as compressing sensing. Systems and Control Letters, 2013, 62, 664-672. | 1.3 | 32 |
| 13 | Consensus in Noncooperative Dynamic Games: A Multiretailer Inventory Application. IEEE Transactions on Automatic Control, 2008, 53, 998-1003. | 3.6 | 31 |
| 14 | Identification of approximated hammerstein models in a worst-case setting. IEEE Transactions on Automatic Control, 2002, 47, 2046-2050. | 3.6 | 25 |
| 15 | A Navigation and Augmented Reality System for Visually Impaired People. Sensors, 2021, 21, 3061. | 2.1 | 25 |
| 16 | Approximation of the Feasible Parameter Set in worst-case identification of Hammerstein models. Automatica, 2005, 41, 1017-1024. | 3.0 | 24 |
| 17 | Multiple UAV cooperative path planning via neuro-dynamic programming. , 2004, , . | | 23 |
| 18 | Minimax LQ stochastic tracking and servo problems. IEEE Transactions on Automatic Control, 1990, 35, 95-97. | 3.6 | 20 |

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|---|---------|----|-----------|
| 19 | Identification of linear parameter varying models. , 0, , . | | 20 |
| 20 | The linear saturated decentralized strategy for constrained flow control is asymptotically optimal. Automatica, 2013, 49, 2206-2212. | 3.0 | 19 |
| 21 | ARIANNA: A smartphone-based navigation system with human in the loop. , 2014, , . | | 18 |
| 22 | Enhancing tracking performance in a smartphone-based navigation system for visually impaired people. , 2016, , . | | 18 |
| 23 | SM identification of approximating models for$H_\infty$ robust control. International Journal of Robust and Nonlinear Control, 1999, 9, 319-332. | 2.1 | 17 |
| 24 | Distributed consensus in noncooperative inventory games. European Journal of Operational Research, 2009, 192, 866-878. | 3.5 | 16 |
| 25 | Quantized Dissensus in Networks of Agents Subject to Death and Duplication. IEEE Transactions on Automatic Control, 2012, 57, 783-788. | 3.6 | 16 |
| 26 | MAC Design for WiFi Infrastructure Networks: A Game-Theoretic Approach. IEEE Transactions on Wireless Communications, 2011, 10, 2510-2522. | 6.1 | 15 |
| 27 | Distributed Consensus in Networks of Dynamic Agents. , 0, , . | | 14 |
| 28 | Lazy consensus for networks with unknown but bounded disturbances. , 2007, , . | | 13 |
| 29 | Relations between structure and estimators in networks of dynamical systems. , 2011, , . | | 12 |
| 30 | Large Scale Control of Deferrable Domestic Loads in Smart Grids. IEEE Transactions on Smart Grid, 2018, 9, 733-742. | 6.2 | 12 |
| 31 | Model quality evaluation in H/sub 2/ identification. IEEE Transactions on Automatic Control, 1997, 42, 691-698. | 3.6 | 11 |
| 32 | Modeling energy demand aggregators for residential consumers. , 2013, , . | | 11 |
| 33 | Identification for a General Class of LPV Models. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 277-282. | 0.4 | 10 |
| 34 | Indirect and implicit adaptive predictive control of the benchmark plant. Automatica, 1994, 30, 577-584. | 3.0 | 9 |
| 35 | A polynomial approach to the MIMO LQ servo and disturbance rejection problems. Automatica, 1992, 28, 209-213. | 3.0 | 8 |
| 36 | Reduced complexity models in the identification of dynamical networks: Links with sparsification problems. , 2009, , . | | 8 |

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| 37 | Medium access in WiFi networks: strategies of selfish nodes [Applications Corner]. IEEE Signal Processing Magazine, 2009, 26, 124-128. | 4.6 | 8 |
| 38 | Sensor Fusion Localization and Navigation for Visually Impaired People. , 2018, , . | | 8 |
| 39 | Privacy-Preserving Overgrid: Secure Data Collection for the Smart Grid. Sensors, 2020, 20, 2249. | 2.1 | 8 |
| 40 | Robust control in uncertain multi-inventory systems and consensus problems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 9027-9032. | 0.4 | 7 |
| 41 | Dissensus, death and division. , 2009, , . | | 7 |
| 42 | The role of the Access Point in Wi-Fi networks with selfish nodes. , 2009, , . | | 7 |
| 43 | Robust control of uncertain multi-inventory systems via linear matrix inequality. International Journal of Control, 2010, 83, 1727-1740. | 1.2 | 7 |
| 44 | Enabling Primary and Specialist Care Interoperability Through HL7 CDA Release 2 and the Chronic Care Model: An Italian Case Study. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2012, 42, 1364-1384. | 3.4 | 7 |
| 45 | Unidirectional probabilistic direct control for deferrable loads. , 2014, , . | | 7 |
| 46 | Hâˆž identification and model structure selection. International Journal of Robust and Nonlinear Control, 1996, 6, 367-377. | 2.1 | 6 |
| 47 | On Discovering Low Order Models in Biochemical Reaction Kinetics. Proceedings of the American Control Conference, 2007, , . | 0.0 | 6 |
| 48 | Smart plugs: A low cost solution for programmable control of domestic loads. , 2014, , . | | 5 |
| 49 | Neuro-dynamic programming for cooperative inventory control. , 2004, , . | | 5 |
| 50 | LPV Model Identification For The Stall And Surge Control of a Jet Engine. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 105-110. | 0.4 | 4 |
| 51 | Resource sharing optimality in WiFi infrastructure networks. , 2009, , . | | 4 |
| 52 | Identification and validation of quasispecies models for biological systems. Systems and Control Letters, 2009, 58, 529-539. | 1.3 | 4 |
| 53 | Identification of distributed systems with logical interaction structure. , 2012, , . | | 4 |
| 54 | Learning Research Methods and Processes via Sharing Experience in a BLOG. , 0, , . | | 3 |

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|---|---------|-----|-----------|
| 55 | PARAMETER BOUNDED ESTIMATION FOR QUASISPECIES MODELS OF MOLECULAR EVOLUTION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 1186-1191. | 0.4 | 3 |
| 56 | A game theoretic approach to MAC design for infrastructure networks. , 2010, , . | | 3 |
| 57 | HL7v3 CDA Rel.2 Patient Summary and Chronic Care Model: Localization experience and GP/HS Integration Project. , 2010, , . | | 3 |
| 58 | A decentralized solution for the constrained minimum cost flow. , 2010, , . | | 3 |
| 59 | Scalable and privacy-preserving admission control for smart grids. , 2015, , . | | 3 |
| 60 | Regularized LMS methods for baseline wandering removal in wearable ECG devices. , 2016, , . | | 3 |
| 61 | In.Line: A Navigation Game for Visually Impaired People. Lecture Notes in Computer Science, 2017, , 147-153. | 1.0 | 3 |
| 62 | Mixed â„" 2 and â„" 1 -norm regularization for adaptive detrending with ARMA modeling. Journal of the Franklin Institute, 2018, 355, 1493-1511. | 1.9 | 3 |
| 63 | On optimal design of experiments for static polynomial approximation of nonlinear systems. Systems and Control Letters, 2020, 143, 104758. | 1.3 | 3 |
| 64 | Robust control of uncertain multi-inventory systems via linear matrix inequality. , 2008, , . | | 2 |
| 65 | Decentralized Synchronization for Zigbee wireless sensor networks in Multi-Hop Topology. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 257-262. | 0.4 | 2 |
| 66 | Teletraffic engineering for direct load control in smart grids. Sustainable Energy, Grids and Networks, 2018, 16, 167-176. | 2.3 | 2 |
| 67 | Supporting Autonomous Navigation of Visually Impaired People for Experiencing Cultural Heritage. Studies in Computational Intelligence, 2020, , 25-46. | 0.7 | 2 |
| 68 | Optimal plug-and-control of unknown nonlinear systems. European Journal of Control, 2022, 64, 100606. | 1.6 | 2 |
| 69 | Implicit predictive adaptive control with stochastic gradient identifiers. IEEE Transactions on Automatic Control, 1993, 38, 1135-1139. | 3.6 | 1 |
| 70 | Robust Identification and Control of Scanning Probe Microscope Scanner. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 33-38. | 0.4 | 1 |
| 71 | Performance Analysis of Selfish Access Strategies on WiFi Infrastructure Networks. , 2009, , . | | 1 |
| 72 | HL7v3 CDA Rel.2 prescription: Localization experience and GP Integration Project. , 2010, , . | | 1 |

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|---|---|---|---|
| 73 | Coloring-based resource allocations in ad-hoc wireless networks. , 2011, , . | | 1 |
| 74 | Achieving fair bandwidth distribution in WiFi Networks: a Game Theoretical Approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 5645-5650. | 0.4 | 1 |
| 75 | Adaptive quadratic regularization for baseline wandering removal in wearable ECG devices. , 2016, , . | | 1 |
| 76 | Optimal experiment design for static polynomial approximation of nonlinear systems. , 2019, , . | | 1 |
| 77 | Dealing with Uncertainty in Consensus Protocols. Understanding Complex Systems, 2009, , 43-58. | 0.3 | 1 |
| 78 | Sidestepping the positive real condition in RELS via multiple RLS identifiers. Automatica, 1993, 29, 1145-1148. | 3.0 | 0 |
| 79 | Nominal optimal controller with enhanced performance via adaptive-Q feedback. International Journal of Adaptive Control and Signal Processing, 1996, 10, 635-648. | 2.3 | 0 |
| 80 | SM evaluation of frequency response variation rate for H/sub /spl infin// identification. , 1998, , . | | 0 |
| 81 | Approximation of feasible parameter set in worst case identification of block-oriented nonlinear models. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 843-848. | 0.4 | 0 |
| 82 | Identification of Replicator-Mutator Models. , 2006, , . | | 0 |
| 83 | Set Membership (In) Validation of nonlinear positive models for biological systems. , 2006, , . | | 0 |
| 84 | Noncooperative dynamic games for inventory applications: A consensus approach. , 2008, , . | | 0 |
| 85 | Application of model quality evaluation to systems biology. , 2008, , . | | 0 |
| 86 | Challenging aspects in Consensus protocols for Networks. , 2008, , . | | 0 |
| 87 | OLS Identification of network topologies. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 8836-8841. | 0.4 | 0 |
| 88 | Hybrid LPV modeling and identification. , 2011, , 11-39. | | 0 |
| 89 | Unidirectional direct load control through smart plugs. , 2014, , . | | 0 |
| 90 | Optimal resource allocation in multi-hop networks: Contention vs. scheduling. , 2014, , . | | 0 |

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|---|---------|-----|-----------|
| 91 | MED14 [Conference Reports]. IEEE Control Systems, 2014, 34, 137-139. | 1.0 | 0 |
| 92 | Consensus in inventory games. , 2008, , . | | 0 |