

# Kameshwar Poolla

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/525562/publications.pdf>

Version: 2024-02-01

69  
papers

3,742  
citations

331670

21  
h-index

361022

35  
g-index

69  
all docs

69  
docs citations

69  
times ranked

2818  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Mobile Storage for Demand Charge Reduction. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 7952-7962.             | 8.0  | 8         |
| 2  | Selling Demand Response Using Options. IEEE Transactions on Smart Grid, 2021, 12, 279-288.  | 9.0  | 9         |
| 3  | Optimal Resource Procurement and the Price of Causality. IEEE Transactions on Automatic Control, 2021, 66, 3489-3501.                 | 5.7  | 2         |
| 4  | Pricing in Prosumer Aggregations using Reinforcement Learning. , 2021, , .  |      | 5         |
| 5  | Sharing economy and optimal investment decisions for distributed solar generation. Applied Energy, 2021, 294, 117029.                 | 10.1 | 14        |
| 6  | Spatial pricing in ride-sourcing markets under a congestion charge. Transportation Research Part B: Methodological, 2021, 152, 18-45. | 5.9  | 20        |
| 7  | Explainable AI for Chiller Fault-Detection Systems: Gaining Human Trust. Computer, 2021, 54, 60-68.                                   | 1.1  | 19        |
| 8  | Optimal Composition of Prosumer Aggregations. , 2021, , .   |      | 2         |
| 9  | Mechanism Design for Demand Response Programs. IEEE Transactions on Smart Grid, 2020, 11, 61-73.                                      | 9.0  | 60        |
| 10 | EnergyStar++: Towards more accurate and explanatory building energy benchmarking. Applied Energy, 2020, 276, 115413.                  | 10.1 | 83        |
| 11 | Analysis of Solar Energy Aggregation Under Various Billing Mechanisms. IEEE Transactions on Smart Grid, 2019, 10, 4175-4187.          | 9.0  | 49        |
| 12 | Sharing Storage in a Smart Grid: A Coalitional Game Approach. IEEE Transactions on Smart Grid, 2019, 10, 4379-4390.                   | 9.0  | 130       |
| 13 | Regulating TNCs: Should Uber and Lyft set their own rules?. Transportation Research Part B: Methodological, 2019, 129, 193-225.       | 5.9  | 80        |
| 14 | Strategic Information Platforms in Transportation Networks. , 2019, , .   |      | 3         |
| 15 | Data-Driven Capacity Bidding for Frequency Regulation. , 2019, , .  |      | 0         |
| 16 | Distributed Storage Investment in Power Networks. , 2019, , .   |      | 1         |
| 17 | The Sharing Economy for the Electricity Storage. IEEE Transactions on Smart Grid, 2019, 10, 556-567.                                  | 9.0  | 143       |
| 18 | Rate-Constrained Energy Services in Electricity. IEEE Transactions on Smart Grid, 2018, 9, 2894-2907.                                 | 9.0  | 12        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Learning-Based Hierarchical Distributed HVAC Scheduling With Operational Constraints. IEEE Transactions on Control Systems Technology, 2018, 26, 1892-1900. | 5.2 | 32        |
| 20 | 2018 European Control Conference (ECC) June 12-15, 2018. Limassol, Cyprus Optimal Energy Reserve Procurement. , 2018, , .                                   |     | 0         |
| 21 | Direct Data-Driven Methods for Risk Limiting Dispatch. , 2018, , .  |     | 0         |
| 22 | Automatic Power Exchange for Distributed Energy Resource Networks: Flexibility Scheduling and Pricing. , 2018, , .  |     | 6         |
| 23 | Baseline Estimation and Scheduling for Demand Response. , 2018, , .   |     | 6         |
| 24 | Recursive Parsimonious System Identification Algorithm for Dynamical Systems. , 2018, , .   |     | 0         |
| 25 | A Strategy to Maintain Short-Term Stability and Long-Term Profitability of Renewable Energy Aggregation. , 2018, , .  |     | 2         |
| 26 | Cooperation of Wind Power and Battery Storage to Provide Frequency Regulation in Power Markets. IEEE Transactions on Power Systems, 2017, 32, 3559-3568.    | 6.5 | 179       |
| 27 | A cooperative game for the realized profit of an aggregation of renewable energy producers. , 2016, , .   |     | 16        |
| 28 | Model and data analysis of two-settlement electricity market with virtual bidding. , 2016, , .  |     | 22        |
| 29 | Predictability, constancy and contingency in electric load profiles. , 2016, , .  |     | 10        |
| 30 | Sharing electricity storage. , 2016, , .  |     | 18        |
| 31 | Mechanism design for self-reporting baselines in Demand Response. , 2016, , .   |     | 12        |
| 32 | Ramping Rate Flexibility of Residential HVAC Loads. IEEE Transactions on Sustainable Energy, 2016, 7, 865-874.  | 8.8 | 61        |
| 33 | Duration-Differentiated Energy Services With a Continuum of Loads. IEEE Transactions on Control of Network Systems, 2016, 3, 182-191.                       | 3.7 | 36        |
| 34 | Low-dimensional models in spatio-temporal wind speed forecasting. , 2015, , .   |     | 16        |
| 35 | Equilibria in two-stage electricity markets. , 2015, , .  |     | 5         |
| 36 | Tracking transience: a method for dynamic monitoring of biological events in Arabidopsis thaliana biosensors. Planta, 2015, 242, 1251-1261.                 | 3.2 | 3         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Aggregate Flexibility of Thermostatically Controlled Loads. IEEE Transactions on Power Systems, 2015, 30, 189-198.  | 6.5 | 526       |
| 38 | Duration-differentiated energy services with a continuum of loads. , 2014, , .  |     | 7         |
| 39 | On the Initialization of Threaded Run-to-Run Control of Semiconductor Manufacturing. IEEE Transactions on Semiconductor Manufacturing, 2014, 27, 515-522.                     | 1.7 | 4         |
| 40 | Consolidated Dynamic Pricing of Power System Regulation. IEEE Transactions on Power Systems, 2013, 28, 4692-4700.   | 6.5 | 16        |
| 41 | Implementation of Nonthreaded Estimation for Run-to-Run Control of High Mix Semiconductor Manufacturing. IEEE Transactions on Semiconductor Manufacturing, 2013, 26, 516-528. | 1.7 | 10        |
| 42 | Competitive energy storage in the presence of renewables. IEEE Transactions on Power Systems, 2013, 28, 985-996.  | 6.5 | 40        |
| 43 | Coalitional Aggregation of Wind Power. IEEE Transactions on Power Systems, 2013, 28, 3774-3784.   | 6.5 | 103       |
| 44 | Real-Time Scheduling of Distributed Resources. IEEE Transactions on Smart Grid, 2013, 4, 2122-2130.   | 9.0 | 88        |
| 45 | A generalized battery model of a collection of Thermostatically Controlled Loads for providing ancillary service. , 2013, , .   |     | 66        |
| 46 | Characterizing and resolving unobservability in run-to-run control of high mix semiconductor manufacturing. , 2013, , .   |     | 5         |
| 47 | Dynamic pricing in consolidated ancillary service markets. , 2013, , .  |     | 1         |
| 48 | Inventory control of storage in distribution systems. , 2012, , .   |     | 4         |
| 49 | Optimal sharing of quantity risk for a coalition of wind power producers facing nodal prices. , 2012, , .   |     | 8         |
| 50 | Selling wind power in electricity markets: The status today, the opportunities tomorrow. , 2012, , .  |     | 11        |
| 51 | Bringing Wind Energy to Market. IEEE Transactions on Power Systems, 2012, 27, 1225-1235.  | 6.5 | 254       |
| 52 | The filter design from data (FD2) problem: parametricâ€statistical approach. International Journal of Robust and Nonlinear Control, 2012, 22, 1853-1872.                      | 3.7 | 9         |
| 53 | Compressive System Identification of LTI and LTV ARX models. , 2011, , .  |     | 33        |
| 54 | Metrology Sampling Strategies for Process Monitoring Applications. IEEE Transactions on Semiconductor Manufacturing, 2011, 24, 489-498.                                       | 1.7 | 8         |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 55 | Modeling sporulation decisions in <i>Bacillus subtilis</i> as optimal evolutionary decision-making. , 2011, , .  |      | 1         |
| 56 | Yield-constrained digital circuit sizing via sequential geometric programming. , 2010, , .   |      | 3         |
| 57 | Optimal linear LQG control over lossy networks without packet acknowledgment. <i>Asian Journal of Control</i> , 2008, 10, 3-13.  | 3.0  | 72        |
| 58 | Optimal sensor density for remote estimation over Wireless Sensor Networks. , 2008, , .  |      | 9         |
| 59 | Identification of Structured Nonlinear Systems. <i>IEEE Transactions on Automatic Control</i> , 2008, 53, 2497-2513.   | 5.7  | 41        |
| 60 | Experiment Design for Structured Nonlinear System Identification. <i>Proceedings of the American Control Conference</i> , 2007, , .  | 0.0  | 0         |
| 61 | Estimation over Wireless Sensor Networks. <i>Proceedings of the American Control Conference</i> , 2007, , .  | 0.0  | 21        |
| 62 | Foundations of Control and Estimation Over Lossy Networks. <i>Proceedings of the IEEE</i> , 2007, 95, 163-187.   | 21.3 | 1,108     |
| 63 | Robust Structured Nonlinear System Identification. , 2006, , .   |      | 6         |
| 64 | Identification of Linear Parameter-Varying Systems Using Nonlinear Programming. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 1999, 121, 71-78. | 1.6  | 157       |
| 65 | Model validation for dynamically uncertain systems. <i>Mathematical Modelling of Systems</i> , 1997, 3, 43-58.   | 0.7  | 38        |
| 66 | Optimal asymptotic robust performance via nonlinear controllers. <i>International Journal of Control</i> , 1995, 62, 1367-1389.  | 1.9  | 6         |
| 67 | Sample Complexity for Worst-Case System Identification Problems. , 1993, , .   |      | 2         |
| 68 | Recursive Methods for Model Validation. , 1993, , .  |      | 0         |
| 69 | A Time-Domain Approach to Model Validation. , 1992, , .  |      | 21        |