Jalal Kazempour - DTU Orbit (09/10/2019)
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Research outputs:

A DSO-level contract market for conditional demand response
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2019 › Research › peer-review

A Mid-Term DSO Market for Capacity Limits: How to Estimate Opportunity Costs of Aggregators?
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

Congestion Management in Distribution Networks With Asymmetric Block Offers
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

Coordination of Power and Natural Gas Systems: Convexification Approaches for Linepack Modeling
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2019 › Research › peer-review

Do unit commitment constraints affect generation expansion planning? A scalable stochastic model
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

Electricity Market Equilibrium Under Information Asymmetry
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

Exploring market properties of policy-based reserve procurement for power systems
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2019 › Research › peer-review

Incentive-Compatibility in a Two-Stage Stochastic Electricity Market with High Wind Power Penetration
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

Incorporating Non-Convex Operating Characteristics into Bi-Level Optimization Electricity Market Models
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

Optimal power flow under uncertainty: An extensive out-of-sample analysis
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2019 › Research › peer-review
A Bilevel Model for Participation of a Storage System in Energy and Reserve Markets
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

A consensus-ADMM approach for strategic generation investment in electricity markets
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2018 › Research › peer-review

A Stochastic Market Design With Revenue Adequacy and Cost Recovery by Scenario: Benefits and Costs
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

Cost-Optimal ATCs in Zonal Electricity Markets
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

Impacts of ramping inflexibility of conventional generators on strategic operation of energy storage facilities
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Offering Strategy of a Flexibility Aggregator in a Balancing Market Using Asymmetric Block Offers
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2018 › Research › peer-review

Price-Taker Offering Strategy in Electricity Pay-as-Bid Markets
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

Value of flexible resources, virtual bidding, and self-scheduling in two-settlement electricity markets with wind generation - Part II: ISO Models and Application
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

Evaluating the Cost of Line Capacity Limitations in Aggregations of Commercial Buildings
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2017 › Research › peer-review

Exploiting Flexibility in Coupled Electricity and Natural Gas Markets: A Price-Based Approach
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2017 › Research › peer-review

Impact of Public Aggregate Wind Forecasts on Electricity Market Outcomes
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Transmission expansion in an oligopoly considering generation investment equilibrium
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Bidding strategy for an energy storage facility
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2016 › Research › peer-review

Effects of Risk Aversion on Market Outcomes: A Stochastic Two-Stage Equilibrium Model
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2016 › Research › peer-review
Investment in Electricity Generation and Transmission: Decision Making Under Uncertainty
Research output: Book/Report › Book – Annual report year: 2016 › Research › peer-review

Sharing wind power forecasts in electricity markets: A numerical analysis
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Strategic Demand-Side Response to Wind Power Integration
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Strategic sizing of energy storage facilities in electricity markets
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Strategic wind power trading considering rival wind power production
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2016 › Research › peer-review

Investment in conventional and renewable generating units
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2015 › Research › peer-review

Network-constrained AC unit commitment under uncertainty: A Benders’ decomposition approach
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Strategic Bidding for a Large Consumer
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Equilibria in an oligopolistic market with wind power production
Research output: Contribution to journal › Journal article – Annual report year: 2014 › Research › peer-review

Minimizing Wind Power Spillage Using an OPF With FACTS Devices
Research output: Contribution to journal › Journal article – Annual report year: 2014 › Research › peer-review

Generation Investment Equilibria With Strategic Producers-Part I: Formulation
Research output: Contribution to journal › Journal article – Annual report year: 2013 › Research › peer-review

Generation Investment Equilibria With Strategic Producers-Part II: Case Studies
Research output: Contribution to journal › Journal article – Annual report year: 2013 › Research › peer-review

Equilibria in futures and spot electricity markets
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Strategic Generation Investment Considering Futures and Spot Markets
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Strategic Generation Investment Under Uncertainty Via Benders Decomposition
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Risk-constrained self-scheduling of a fuel and emission constrained power producer using rolling window procedure
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review
Strategic Generation Investment Using a Complementarity Approach
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Electric energy storage systems in a market-based economy: Comparison of emerging and traditional technologies
Research output: Contribution to journal › Journal article – Annual report year: 2009 › Research › peer-review

Risk-constrained dynamic self-scheduling of a pumped-storage plant in the energy and ancillary service markets
Research output: Contribution to journal › Journal article – Annual report year: 2009 › Research › peer-review

Projects:

Market Design for Future Highly Interconnected Multi-Carrier Energy Systems
Project: PhD

Coordinated Operation of Integrated Energy Systems
Project: Research

Efficient and Scalable Market Design for Renewable-based Integrated Energy Systems
Project: PhD

Advanced Game-Theoretical Aspects in Electricity Markets
Project: PhD

Optimal Voltage Control of Distribution Networks with High Penetration of Distributed Energy Resources (DERs)
Project: PhD

Market Mechanisms for Integrated Energy Systems
Project: PhD

Market Mechanisms for Integrated Energy Systems
Project: PhD

Impact assessment of HVDC Systems at the European level
Project: PhD

5s - Future Electricity Markets
Project: Research

Activities:

Special one-week PhD/MSc level course at Skoltech, Moscow, Russia, on "Decomposition techniques for energy systems applications"
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

DTU CEE Summer School 2018: Modern Optimization in Energy Systems
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Special 3-week PhD/MSc level course at DTU on "Large-scale optimization problems in energy systems: Applications of decomposition techniques"
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities
DTU Summer School 2017: Modern Challenges in Power System Operation and Electricity Markets: An Optimization Perspective
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

International Transactions on Electrical Energy System (Journal)
Activity: Editorial work and peer review › Journal editor › Research

DTU Summer School 2016: Uncertainty in Electricity Markets and System Operation
Activity: Attending an event › Participating in or organising a conference

Special PhD-level course on "Large-scale optimization problems in energy systems: Applications of decomposition techniques", Spring 2016.
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

Prizes:

On the list of the 40 outstanding reviewers of IEEE Transactions on Power Systems for 2015
Prize: Prizes, scholarships, distinctions

On the list of the 47 outstanding reviewers of IEEE Transactions on Smart Grid for 2016
Prize: Prizes, scholarships, distinctions

On the list of the 8 outstanding editorial board members of International Transactions on Electrical Energy Systems (Wiley) for 2017
Prize: Prizes, scholarships, distinctions

Second best student paper award (Basil Papadias Award) at IEEE PowerTech 2019 Conference
Prize: Prizes, scholarships, distinctions