

# Dirk Neumann

## List of Publications by Year in descending order

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Version: 2024-02-01

94  
papers

2,450  
citations

236925

25  
h-index

254184

43  
g-index

100  
all docs

100  
docs citations

100  
times ranked

2161  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Automated news reading: Stock price prediction based on financial news using context-capturing features. <i>Decision Support Systems</i> , 2013, 55, 685-697.                                | 5.9  | 243       |
| 2  | Emergency response in natural disaster management: Allocation and scheduling of rescue units. <i>European Journal of Operational Research</i> , 2014, 235, 697-708.                          | 5.7  | 189       |
| 3  | Social media analytics and value creation in urban smart tourism ecosystems. <i>Information and Management</i> , 2017, 54, 703-713.  | 6.5  | 149       |
| 4  | Trading grid services – a multi-attribute combinatorial approach. <i>European Journal of Operational Research</i> , 2008, 187, 943-961.  | 5.7  | 94        |
| 5  | Putting Big Data analytics to work: Feature selection for forecasting electricity prices using the LASSO and random forests. <i>Journal of Decision Systems</i> , 2015, 24, 19-36.           | 3.2  | 88        |
| 6  | A Market Mechanism for Energy Allocation in Micro-CHP Grids. , 2008, , .   |      | 79        |
| 7  | Measuring the financial impact of demand response for electricity retailers. <i>Energy Policy</i> , 2014, 65, 359-368.   | 8.8  | 79        |
| 8  | Moving in time and space – Location intelligence for carsharing decision support. <i>Decision Support Systems</i> , 2017, 99, 75-85.   | 5.9  | 60        |
| 9  | Energy Informatics. <i>Business and Information Systems Engineering</i> , 2014, 6, 25-31.  | 6.1  | 55        |
| 10 | A sentiment analysis-based machine learning approach for financial market prediction via news disclosures. , 2018, , .   |      | 50        |
| 11 | Integration scenarios of Demand Response into electricity markets: Load shifting, financial savings and policy implications. <i>Energy Policy</i> , 2016, 96, 231-240.                       | 8.8  | 48        |
| 12 | Image retrieval and perceptual similarity. <i>ACM Transactions on Applied Perception</i> , 2006, 3, 31-47.   | 1.9  | 47        |
| 13 | A Fully Computational Model for Predicting Percutaneous Drug Absorption. <i>Journal of Chemical Information and Modeling</i> , 2006, 46, 424-429.  | 5.4  | 46        |
| 14 | Intermodal Mobility. <i>Business and Information Systems Engineering</i> , 2017, 59, 173-179.  | 6.1  | 40        |
| 15 | Combining analytics and simulation methods to assess the impact of shared, autonomous electric vehicles on sustainable urban mobility. <i>Information and Management</i> , 2022, 59, 103285. | 6.5  | 38        |
| 16 | Value and granularity of ICT and smart meter data in demand response systems. <i>Energy Economics</i> , 2016, 54, 1-10.  | 12.1 | 37        |
| 17 | In free float: Developing Business Analytics support for carsharing providers. <i>Omega</i> , 2016, 59, 4-14.  | 5.9  | 37        |
| 18 | Contract durations in the electricity market: Causal impact of 15 min trading on the EPEX SPOT market. <i>Energy Economics</i> , 2018, 69, 367-378.  | 12.1 | 37        |

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|----|--|------|-----------|
| 19 | Automated control for elastic n-tier workloads based on empirical modeling. , 2011, , .  |      | 36        |
| 20 | Negation scope detection in sentiment analysis: Decision support for news-driven trading. Decision Support Systems, 2016, 88, 67-75.   | 5.9  | 35        |
| 21 | The behavior of blockchain ventures on Twitter as a determinant for funding success. Electronic Markets, 2020, 30, 241-257.  | 8.1  | 33        |
| 22 | Automated News Reading: Stock Price Prediction Based on Financial News Using Context-Specific Features. , 2012, , .  |      | 32        |
| 23 | Is code law? Current legal and technical adoption issues and remedies for blockchain-enabled smart contracts. Journal of Information Technology, 2020, 35, 337-360.              | 3.9  | 31        |
| 24 | Evaluating a business model for vehicle-grid integration: Evidence from Germany. Transportation Research, Part D: Transport and Environment, 2017, 50, 488-504.                  | 6.8  | 30        |
| 25 | Enhancing Sentiment Analysis of Financial News by Detecting Negation Scopes. , 2015, , .   |      | 29        |
| 26 | TAX POLICY AND INCOME INEQUALITY IN THE UNITED STATES, 1979â€“2007. Economic Inquiry, 2015, 53, 1061-1085.   | 1.8  | 29        |
| 27 | Analysis of How Underlying Topics in Financial News Affect Stock Prices Using Latent Dirichlet Allocation. , 2016, , .   |      | 29        |
| 28 | Large-scale demand response and its implications for spot prices, load and policies: Insights from the German-Austrian electricity market. Applied Energy, 2018, 210, 1290-1298. | 10.1 | 29        |
| 29 | Applying the Montreal Taxonomy to State of the Art E-Negotiation Systems. Group Decision and Negotiation, 2003, 12, 287-310.   | 3.3  | 27        |
| 30 | Catallaxy-based Grid markets. Multiagent and Grid Systems, 2005, 1, 297-307.   | 0.9  | 26        |
| 31 | A Framework for Commercial Gridsâ€™ Economic and Technical Challenges. Journal of Grid Computing, 2008, 6, 325-347.  | 3.9  | 26        |
| 32 | Market-based pricing in grids: On strategic manipulation and computational cost. European Journal of Operational Research, 2010, 203, 464-475.                                   | 5.7  | 26        |
| 33 | Crossing the Next Frontier: The Role of ICT in Driving the Financialization of Credit. Journal of Information Technology, 2017, 32, 218-233.                                     | 3.9  | 26        |
| 34 | Strategies for microgrid operation under real-world conditions. European Journal of Operational Research, 2021, 292, 339-352.  | 5.7  | 25        |
| 35 | Electronic mobility market platforms â€™ a review of the current state and applications of business analytics. Electronic Markets, 2017, 27, 267-282.                            | 8.1  | 24        |
| 36 | CloudXplor. , 2010, , .  |      | 23        |

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|----|--|-----|-----------|
| 37 | Using k-Pricing for Penalty Calculation in Grid Market. , 2008, , .  |     | 22        |
| 38 | Taming Uncertainty in Big Data. Business and Information Systems Engineering, 2014, 6, 279-288.  | 6.1 | 22        |
| 39 | Revenue management for Cloud computing providers: Decision models for service admission control under non-probabilistic uncertainty. European Journal of Operational Research, 2015, 244, 637-647. | 5.7 | 19        |
| 40 | Permutation flow shop scheduling with multiple lines and demand plans using reinforcement learning. European Journal of Operational Research, 2022, 299, 75-86.                                    | 5.7 | 19        |
| 41 | Prescriptive analytics in public-sector decision-making: A framework and insights from charging infrastructure planning. European Journal of Operational Research, 2021, 291, 379-393.             | 5.7 | 18        |
| 42 | Statistical inferences for polarity identification in natural language. PLoS ONE, 2018, 13, e0209323.  | 2.5 | 15        |
| 43 | Negation scope detection for sentiment analysis: A reinforcement learning framework for replicating human interpretations. Information Sciences, 2020, 536, 205-221.                               | 6.9 | 15        |
| 44 | Load Shifting Agents for Automated Demand Side Management in Micro Energy Grids. , 2008, , .   |     | 14        |
| 45 | Bridging the Adoption Gap - Developing a Roadmap for Trading in Grids. Electronic Markets, 2008, 18, 65-74.  | 8.1 | 13        |
| 46 | Modeling interferences in information systems design for cyberphysical systems: Insights from a smart grid application. European Journal of Information Systems, 2018, 27, 207-220.                | 9.2 | 13        |
| 47 | Decision Modeling for Assignments of Collaborative Rescue Units during Emergency Response. , 2013, , .   |     | 12        |
| 48 | Smart Cities and Digitized Urban Management. Business and Information Systems Engineering, 2018, 60, 193-195.  | 6.1 | 12        |
| 49 | Do Investors Read Too Much into News? How News Sentiment Causes Price Formation. , 2015, , .   |     | 11        |
| 50 | The tone of financial news and the perceptions of stock and CDS traders. International Review of Financial Analysis, 2016, 46, 159-175.  | 6.6 | 11        |
| 51 | Making the most of fleets: A profit-maximizing multi-vehicle pickup and delivery selection problem. European Journal of Operational Research, 2017, 259, 155-168.                                  | 5.7 | 11        |
| 52 | Planning and Pricing of Service Mashups. Advanced Issues of E-Commerce and Web-Based Information Systems (WECWIS), International Workshop on, 2008, , .  | 0.0 | 10        |
| 53 | Energy-aware workload management models for operation cost reduction in data centers. European Journal of Operational Research, 2012, 222, 157-167.  | 5.7 | 10        |
| 54 | News Processing during Speculative Bubbles: Evidence from the Oil Market. , 2014, , .  |     | 10        |

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|----|--|------|-----------|
| 55 | Predicting sentence-level polarity labels of financial news using abnormal stock returns. Expert Systems With Applications, 2020, 148, 113223.   | 7.6  | 10        |
| 56 | Predicting residential electricity consumption using aerial and street view images. Applied Energy, 2021, 301, 117407.   | 10.1 | 10        |
| 57 | GreedyExa€”a scalable clearing mechanism for utility computing. Electronic Commerce Research, 2008, 8, 235-253.  | 5.0  | 9         |
| 58 | Early Warning of Impending Oil Crises Using the Predictive Power of Online News Stories. , 2013, , .   |      | 9         |
| 59 | News sentiment and overshooting of exchange rates. Applied Economics, 2016, 48, 4238-4250.   | 2.2  | 8         |
| 60 | Grid-Economics. Business & Information Systems Engineering, 2006, 48, 206-209.   | 0.4  | 7         |
| 61 | Risk-Aware Service Level Agreement Design for Enterprise Information Systems. , 2012, , .  |      | 7         |
| 62 | Cost minimization of large-scale infrastructure for electricity generation and transmission. Omega, 2020, 96, 102071.  | 5.9  | 7         |
| 63 | Situated Decision Support for Managing Service Level Agreement Negotiations. , 2008, , .   |      | 6         |
| 64 | A Discriminatory Pay-as-Bid Mechanism for Efficient Scheduling in the Sun N1 Grid Engine. , 2008, , .  |      | 6         |
| 65 | Automated bidding in computational markets: an application in market-based allocation of computing services. Autonomous Agents and Multi-Agent Systems, 2010, 21, 115-142.                     | 2.1  | 6         |
| 66 | Assignments of Collaborative Rescue Units during Emergency Response. International Journal of Information Systems for Crisis Response and Management, 2013, 5, 63-80.                          | 0.7  | 6         |
| 67 | Longitudinal healthcare analytics for disease management: Empirical demonstration for low back pain. Decision Support Systems, 2020, 132, 113271.  | 5.9  | 6         |
| 68 | A Fuzzy Decision Support Model for Natural Disaster Response under Informational Uncertainty. International Journal of Information Systems for Crisis Response and Management, 2012, 4, 23-41. | 0.7  | 6         |
| 69 | A Service Request Acceptance Model for Revenue Optimization - Evaluating Policies Using a Web Based Resource Management Game. , 2010, , .  |      | 5         |
| 70 | Revenue Management for Cloud Providers--A Policy-Based Approach under Stochastic Demand. , 2012, , .   |      | 5         |
| 71 | Data Analytics in Free-Floating Carsharing: Evidence from the City of Berlin. , 2015, , .  |      | 5         |
| 72 | Detecting Negation Scopes for Financial News Sentiment Using Reinforcement Learning. , 2016, , .   |      | 5         |

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|----|--|-----|-----------|
| 73 | Learning Interpretable Negation Rules via Weak Supervision at Document Level: A Reinforcement Learning Approach. , 2019, , .   |     | 5         |
| 74 | Decentralized Online Resource Allocation for DynamicWeb Service Applications. , 2007, , .  |     | 4         |
| 75 | Harnessing migrations in a market-based grid OS. , 2008, , .   |     | 4         |
| 76 | Datacenter Investment Support System (DAISY). , 2010, , .  |     | 4         |
| 77 | Chasing Lemmings: Modeling IT-Induced Misperceptions About the Strategic Situation as a Reason for Flash Crashes. Journal of Management Information Systems, 2015, 31, 88-108. | 4.3 | 4         |
| 78 | Decision model for sustainable electricity procurement using nationwide demand response. , 2016, , .   |     | 4         |
| 79 | Distributed ascending proxy auction " A cryptographic approach. Business & Information Systems Engineering, 2006, 48, 7-15.  | 0.4 | 3         |
| 80 | Reading All the News at the Same Time: Predicting Mid-term Stock Price Developments Based on News Momentum. , 2013, , .  |     | 3         |
| 81 | Language sentiment in fundamental and noise trading: evidence from crude oil. Applied Economics, 2020, 52, 5343-5363.  | 2.2 | 3         |
| 82 | The Constrained Reliable Shortest Path Problem in Stochastic Time-Dependent Networks. Operations Research, 2021, 69, 709-726.  | 1.9 | 3         |
| 83 | Combinatorial exchanges for coordinating grid services. , 2007, 7, 65-68.  |     | 3         |
| 84 | Preface to the Focus Theme Section: "Financial Market Engineering"™. Electronic Markets, 2006, 16, 98-100.   | 8.1 | 2         |
| 85 | Second-Best Combinatorial Auctions - The Case of the Pricing-Per-Column Mechanism. , 2007, , .   |     | 2         |
| 86 | Prescriptive Analytics in Urban Policing Operations. Manufacturing and Service Operations Management, 0, , .   | 3.7 | 2         |
| 87 | Using Blueprints for Engineering Electronic Market Services. , 2006, , .   |     | 0         |
| 88 | Token Exchange System as incentive mechanism for e-Science Grid. , 2007, , .   |     | 0         |
| 89 | Collaborative Continuous Service Engineering: A Case Study in a Financial Service Environment. , 2008, , .   |     | 0         |
| 90 | The Impact of Collaboration Network Structure on Issue Tracking's Process Efficiency at a Large Business Software Vendor. , 2010, , .  |     | 0         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 91 | Comparing ingress and egress detection to secure interdomain routing. ACM Transactions on Internet Technology, 2011, 11, 1-26.                        | 4.4 | 0         |
| 92 | When Common Knowledge Becomes Common Doubt -- Modeling IT-Induced Ambiguities about the Strategic Situation as Reasons for Flash Crashes. , 2014, , . |     | 0         |
| 93 | Accelerating Combinatorial Clock Auctions Using Bid Ranges. , 2014, , .   |     | 0         |
| 94 | Curtailement Contract Design for HVAC Systems. , 2019, , .  |     | 0         |