

## Teaching portfolio

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### TEACHING EXPERIENCE

I have many years of teaching experience from my current position and also while conducting my PhD research. Currently, I have taught at both the Bachelor and Master's level (as listed below), and been involved in designing almost all of the courses I have taught. Over the years, I have supervised several term papers, bachelor theses, and master's theses. Additionally, I have taught both long and short courses in several different countries, such as the United Kingdom, China, Taiwan, and Denmark. A lot of what I have learned from my multi-cultural experience can be transferred to my teaching. My classroom teaching blends lecturing, case discussions, and student presentations. I use varied methods to evaluate my students' learning outcomes, such as written/oral exams and individual/group assignments. The exact proportion of the mixture depends on the size of the class and the level of the students.

This is a fairly complete list of courses I have taught:

- MSc (Eng) in Energy Business Ecosystem
- MSc (Eng) in Software Business Ecosystem
- MSc (Eng) in Scientific Methods
- MSc (Eng) in Innovative Energy Solutions
- MSc (Eng) in Innovative Software Solutions
- MSc (Eng) in Product and Innovation Management
- MSc (Eng) in Qualitative Market Research
- MA in International Business
- MSc and BA in Design of Operations Facilities and Systems
- MSc in Time Management
- BSc (Eng) in Cross-Cultural Management
- BSc (Eng) in Innovation Strategy
- BSc (Eng) in Product Development and Innovation
- BSc (Eng) in Qualitative Market Research

### Educational practice - Basis / values

My teaching aim is not only to train students in applying theories and models to identify, analyse, discuss, and solve practical problems, but also to equip them with creative thinking skills and an innovative spirit in a global context. Specifically, my teaching is highly practice-based. I try to encourage my students to identify and solve the real problems or challenges in a particular situation/case, identify the pertinent theories or models which may intuitively provide an understanding of the problem and its attendant context, and then embed the innovation concept to reach potential strategic solutions.

In terms of my background, I am fully experienced in cultural diversity due to having worked and taught in several different countries. My international experience strengthens my teaching methods based on my understanding of different students' background, interests, and demands.

### FORMAL PEDAGOGICAL TRAINING

I completed the Danish university teachers' pedagogical training programme in December 2012, and also attended the Associate Teachers' Programme (ATP) while conducting my PhD research at the University of Nottingham.

### OTHER ACTIVITIES RELATED TO TEACHING AND TEACHING DEVELOPMENT

2017-2018: Internal mentor for SDU Lecturer Training Programme

2017: Project of Developing Students Inter-Cultural Competences

## Publikationer

### Identifying Best Practice Melting Patterns in Induction Furnaces: A Data-Driven Approach Using Time Series K-Means Clustering and Multi-Criteria Decision Making

Howard, D. A., Jørgensen, B. N. & Ma, Z. G., dec. 2023, *Energy Informatics: Third Energy Informatics Academy Conference, EIA 2023, Campinas, Brazil, December 6–8, 2023, Proceedings, Part I*. Jørgensen, B. N., Pereira da Silva, L. C. & Ma, Z. (red.). Springer, s. 271–288 (Lecture Notes in Computer Science (LNCS), Bind 14467).

### A Novel Hybrid Feature Importance and Feature Interaction Detection Framework for Predictive Optimization in Industry 4.0 Applications

Ma, Z., Jørgensen, B. N. & Ma, Z. G., 16. nov. 2023, *IECON 2023–49th Annual Conference of the IEEE Industrial Electronics Society*. IEEE, 6 s. (Proceedings of the Annual Conference of the IEEE Industrial Electronics Society).

**Decoding Digitalization Enabled Energy Efficiency and Flexibility in Industry: A Survey with Nine Case Studies**

Ma, Z., Jørgensen, B. N., Levesque, M., Amazouz, M. & Ma, Z. G., 20. aug. 2023, (Accepteret/In press) *Lecture Notes in Computer Science*. Springer, (Lecture Notes in Computer Science (LNCS)).

**A Modifiable Architectural Design for Commercial Greenhouses Energy Economic Dispatch Testbed**

Clausen, C. S. B., Jørgensen, B. N. & Ma, Z. G., 2024, *Energy Informatics: Third Energy Informatics Academy Conference, EIA 2023, Campinas, Brazil, December 6–8, 2023, Proceedings, Part I*. Jørgensen, B. N., da Silva, L. C. P. & Ma, Z. (red.). Springer, s. 234–252 (Lecture Notes in Computer Science, Bind 14467).

**Eco-driving Intelligent Systems and Algorithms: A Patent Review**

Ma, Z., Jørgensen, B. N. & Ma, Z. G., 6. jul. 2023, (Accepteret/In press) *The 8th International Conference on Power and Renewable Energy (ICPRE 2023)*. IEEE

**Message from the Technical Program Committee Chairs**

Jiang, X. F., Ma, Z. G. & Tan, R., 16. jun. 2023, *e-Energy '23: Proceedings of the 2023 The 14th ACM International Conference on Future Energy Systems*. Association for Computing Machinery, s. V-VI

**A scoping review of eco-driving research and applied state-of-the-art AI models**

Ma, Z., Jørgensen, B. N. & Ma, Z. G., 15. feb. 2023, (Afsendt) I: *Renewable & Sustainable Energy Reviews*.

**Multi-Method Simulation and Multi-Objective Optimization for Energy-Flexibility-Potential Assessment of Food-Production Process Cooling**

Howard, D. A., Jørgensen, B. N. & Ma, Z., feb. 2023, I: *Energies*. 16, 3, 27 s., 1514.

**A Scoping Review of Energy Load Disaggregation**

Tolnai, B. A., Jørgensen, B. N. & Ma, Z. G., 2023, (Accepteret/In press) *22nd EPIA Conference on Artificial Intelligence, EPIA 2023*. Springer

**A scoping review on electric vehicle charging strategies with a technical, social, and regulatory feasibility evaluation**

Christensen, K., Ma, Z. G. & Jørgensen, B. N., 2023, (Afsendt) I: *Renewable & Sustainable Energy Reviews*.

**An agent-based simulation evaluating the impact of consumer-trader information asymmetry on electricity market participation success**

Fatras, N., Ma, Z. G. & Jørgensen, B. N., 2023, *2023 19th International Conference on the European Energy Market (EEM)*. IEEE, 6 s. (International Conference on the European Energy Market, Proceedings).

**Digital Transformation in District Heating Systems: A Scoping Review**

Ma, Z. G. & Jørgensen, B. N., 2023, (Accepteret/In press).

**Digital Twins: Benefits, Applications and Development Process**

Ma, Z. G., Howard, D. A., Clausen, C. S. B. & Jørgensen, B. N., 2023, (Afsendt) *The 22nd Portuguese conference on artificial intelligence*. IEEE

**Ecosystem based Opportunity Identification and Feasibility Evaluation for Demand Side Management Solutions**

Ma, Z. G., Christensen, K., Vaerbak, M., Fatras, N., Howard, D. A. & Jørgensen, B. N., 2023, *2023 IEEE Conference on Power Electronics and Renewable Energy, (CPERE)*. IEEE, 6 s.

**Energy Informatics: Tackling energy poverty in vulnerable communities**

Ma, Z. G. & Jørgensen, B. N., 2023, I: *Energy Informatics*.

**Energy metaverse: the conceptual framework with a review of the state-of-the-art methods and technologies**

Ma, Z. G., 2023, I: *Energy Informatics*. 6, 1, 35 s., 42.

**Energy Metaverse: a virtual living lab of the energy ecosystem**

Ma, Z. G., 2023, I: Energy Informatics. 6, 1, 3.

**How research in energy informatics contributes to energy transitions and SDG 7**

Ma, Z. G. & Jørgensen, B. N., 2023, I: Energy Informatics.

**Multi-Agent Based Simulation for Investigating Electric Vehicle Adoption and Its Impacts on Electricity Distribution Grids and CO2 Emissions**

Christensen, K., Ma, Z. G. & Jørgensen, B. N., 2023, (Accepted/In press).

**Standard energy data competition procedure: A comprehensive review with a case study of the ADRENALIN load disaggregation competition**

Tolnai, B. A., Jørgensen, B. N. & Ma, Z. G., 2023, (Accepted/In press) *Energy Informatics.Academy Conference 2023*. Springer

**Application of Energy Informatics in Danish Research Projects**

Howard, D. A., Ma, Z. G. & Jørgensen, B. N., 21. dec. 2022, I: Energy Informatics. 5, Suppl. 4., 31 s., 57.

**Can we benefit from game engines to develop digital twins for planning the deployment of photovoltaics?**

Clausen, C. S. B., Ma, Z. G. & Jørgensen, B. N., 21. dec. 2022, I: Energy Informatics. 5, Suppl. 4, 26 s., 42.

**Evaluation of Neural Networks for Residential Load Forecasting and the Impact of Systematic Feature Identification**

Vanting, N. B., Ma, Z. G. & Jørgensen, B. N., 21. dec. 2022, I: Energy Informatics. 5, Suppl. 4, 23 s., 63.

**An agent-based modelling framework for the simulation of large-scale consumer participation in electricity market ecosystems**

Fatras, N., Ma, Z. G. & Jørgensen, B. N., dec. 2022, I: Energy Informatics. 5, Suppl. 4, 30 s., 47.

**CELSIUS: an international project providing integrated, systematic, cost-effective large-scale IoT solutions for improving energy efficiency of medium- and large-sized buildings**

Ma, Z., Santos, A. Q., Shaker, H. R., Yussof, S., Eriksen, P. M., Hornum, J. & Jørgensen, B. N., dec. 2022, I: Energy Informatics. 5, Suppl. 4, 14 s., 41.

**Ecosystem-driven business opportunity identification method and web-based tool with a case study of the electric vehicle home charging energy ecosystem in Denmark**

Ma, Z. G., Christensen, K., Rasmussen, T. F. & Jørgensen, B. N., dec. 2022, I: Energy Informatics. 5, Suppl. 4, 35 s., 54.

**Potentials of game engines for wind power digital twin development: an investigation of the Unreal engine**

Sørensen, J. V., Ma, Z. G. & Jørgensen, B. N., dec. 2022, I: Energy Informatics. 5, Suppl. 4, 39.

**Summary of Energy Informatics.Academy Conference 2022**

Ma, Z., Jørgensen, B. H., Chen, G., Madsen, H., Duan, H., da Silva, L. C. P. & Jørgensen, B. N., dec. 2022, I: Energy Informatics. 5, Suppl. 4, 4 s., 37.

**Survey data on university students' experience of energy control, indoor comfort, and energy flexibility in campus buildings**

Ma, Z., dec. 2022, I: Energy Informatics. 5, Suppl. 4, 12 s., 50.

**A Case Study of Digital Twin for Greenhouse Horticulture Production Flow**

Howard, D. A., Ma, Z. G. & Jørgensen, B. N., okt. 2022, *2022 IEEE 2nd International Conference on Digital Twins and Parallel Intelligence (DTPi)*. IEEE, 6 s.

**A systematic review of electricity market liberalisation and its alignment with industrial consumer participation: A comparison between the Nordics and China**

Fatras, N., Ma, Z. G., Duan, H. & Jørgensen, B. N., aug. 2022, I: *Renewable & Sustainable Energy Reviews*. 167, 34 s., 112793.

**Process-to-market matrix mapping: A multi-criteria evaluation framework for industrial processes' electricity market participation feasibility**

Fatras, N., Ma, Z. & Jørgensen, B. N., 1. maj 2022, I: *Applied Energy*. 313, 21 s., 118829.

**Scoping Review in One Week: A cookbook for beginners to conduct scoping reviews and write review papers with simple steps**

Ma, Z. G., 13. feb. 2022, Amazon.com. 54 s.

**A frequency-domain analysis of electricity market prices for multi-timescale flexibility of Power-to-X facilities**

Fatras, N., Ma, Z. & Jørgensen, B. N., 2022, *2022 18th International Conference on the European Energy Market (EEM)*. IEEE, 6 s. (International Conference on the European Energy Market, Proceedings, Bind 2022-September).

**Energy Flexibility Potential in the Brewery Sector: A Multi-agent Based Simulation of 239 Danish Breweries**

Howard, D. A., Ma, Z. G., Engvang, J. A., Hagenau, M., Jørgensen, K. L., Fausing Olesen, J. & Jørgensen, B. N., 2022, *2022 IEEE PES 14th Asia-Pacific Power and Energy Engineering Conference (APPEEC)*. IEEE, 6 s.

**Identification of natural disaster impacted electricity load profiles with k means clustering algorithm**

Jessen, S. H., Ma, Z. G., Danang Wijaya, F., Vasquez, J., Guerrero, J. & Jørgensen, B. N., 2022, I: *Energy Informatics*. 5, Suppl. 4, 29 s., 59.

**Summary of poster papers in the Energy Informatics. Academy Conference 2022**

Ma, Z. G., Vocke, A., Alt, S., Schorr, V., Werth, D., Baptista, P., Rosado, J., Caldeira, F., Cardoso, F., Md Salleh, N. S., Hashim, W., Søndergaard, H. A. N., Shaker, H. R., Mortensen, L. K., Veje, C. T., Jørgensen, B. H., Chen, G. & Jørgensen, B. N., 2022, I: *Energy Informatics*. 5, Suppl. 3, 2 s.

**The importance of systematical analysis and evaluation methods for energy business ecosystems**

Ma, Z. G., 2022, I: *Energy Informatics*. 5, 1, 6 s., 2.

**A digital twin framework for evaluating industrial consumers' demand response participation: a comparison between Denmark and China**

Fatras, N., Ma, Z. & Jørgensen, B. N., 24. sep. 2021, I: *Energy Informatics*. 4, s. 36-39 P13.

**Agent-based simulation framework for evaluating energy flexibility solutions and adoption strategies**

Christensen, K., Ma, Z., Demazeau, Y. & Jørgensen, B. N., 24. sep. 2021, I: *Energy Informatics*. 4, Suppl. 1, 8 s., P11.

**Digitalisation potentials in the electricity ecosystem: lesson learnt from the comparison between Germany and Denmark**

Hack, T., Ma, Z. & Jørgensen, B. N., 24. sep. 2021, I: *Energy Informatics*. 4, Suppl. 2, 27.

**Greenhouse Industry 4.0 – Digital Twin Technology for Commercial Greenhouses**

Howard, D. A., Ma, Z., Veje, C., Clausen, A., Aaslyng, J. P. M. & Jørgensen, B. N., 24. sep. 2021, I: *Energy Informatics*. 4, Suppl. 2, 13 s., 37.

**Industrial consumers' electricity market participation options: A case study of an industrial cooling process in Denmark**

Fatras, N., Ma, Z. & Jørgensen, B. N., 24. sep. 2021, I: *Energy Informatics*. 4, Suppl. 2, 25 s., 48.

**Methodology for identifying technical details of Smart Energy Solutions and Research Gaps in Smart Grid: An Example of Electric Vehicles in the energy system**

Christensen, K., Ma, Z., Demazeau, Y. & Jørgensen, B. N., 24. sep. 2021, I: *Energy Informatics*. 4, suppl. 2, 25 s., 38.

**A generic agent-based framework for modeling business ecosystems: a case study of electric vehicle home charging**  
Værbak, M., Ma, Z., Demazeau, Y. & Jørgensen, B. N., sep. 2021, I: *Energy Informatics*. 4, Suppl. 2, 26 s., 28.

**An Overview of Digitalization for the Building-to-Grid Ecosystem**

Ma, Z., Clausen, A., Lin, Y. & Jørgensen, B. N., sep. 2021, I: *Energy Informatics*. 4, Suppl. 2, 21 s., 36.

**Digital Twin Framework for Industrial Production Processes**

Howard, D. A., Ma, Z. & Jørgensen, B. N., sep. 2021, I: *Energy Informatics*. 4, Suppl. 1, P9.

**Welcome message from the organizers at the 1st Energy Informatics. Academy Conference Asia (EI.A Asia 2021)**

Ma, Z., Jørgensen, B. H., Chen, G. & Jørgensen, B. N., sep. 2021, I: *Energy Informatics*. 4, Suppl. 2, 3 s., 45.

**A Comprehensive Review of Machine Learning in Multi-objective Optimization**

Qu, Y., Ma, Z., Clausen, A. & Jørgensen, B. N., 20. aug. 2021, *2021 IEEE 4th International Conference on Big Data and Artificial Intelligence (BDAI)*. IEEE, s. 7-14

**Business ecosystem architecture development: a case study of Electric Vehicle home charging**

Ma, Z., Christensen, K. & Jørgensen, B. N., 24. jun. 2021, I: *Energy Informatics*. 4, 37 s., 9.

**Technical, Economic, Social and Regulatory Feasibility Evaluation of Dynamic Distribution Tariff Designs**

Christensen, K., Ma, Z. & Jørgensen, B. N., 15. maj 2021, I: *Energies*. 14, 10, 24 s., 2860.

**A Comprehensive Review on Evolutionary Algorithm Solving Multi-Objective Problems**

Qu, Y., Ma, Z., Clausen, A. & Jørgensen, B. N., 2021, *2021 22nd IEEE International Conference on Industrial Technology (ICIT)*. IEEE, s. 825-831

**A Scoping Review of Deep Neural Networks for Electric Load Forecasting**

Vanting, N. B., Ma, Z. & Jørgensen, B. N., 2021, I: *Energy Informatics*. 4, Suppl. 2, 13 s., 49.

**Digital Twin Framework for Energy Efficient Greenhouse Industry 4.0**

Howard, D. A., Ma, Z. & Jørgensen, B. N., 2021, *Ambient Intelligence – Software and Applications: 11th International Symposium on Ambient Intelligence*. Novais, P., Vercelli, G., Larriba-Pey, J. L., Herrera, F. & Chamoso, P. (red.). Springer, s. 293-297 (Advances in Intelligent Systems and Computing, Bind 1239).

**Evaluation of Industrial Energy Flexibility Potential: A Scoping Review**

Howard, D. A., Ma, Z. & Jørgensen, B. N., 2021, *2021 22nd IEEE International Conference on Industrial Technology (ICIT)*. IEEE, s. 1074-1079

**Smart buildings and urban spaces**

Ma, Z., Jørgensen, B. N. & Billanes, J. D., 2021, *Solving Urban Infrastructure Problems Using Smart City Technologies: Handbook on Planning, Design, Development, and Regulation*. Vacca, J. R. (red.). Elsevier Editora, s. 55-87

**System architecture modelling framework applied to the integration of electric vehicles in the grid**

Fatras, N., Ma, Z. & Jørgensen, B. N., 2021, *Distributed Computing and Artificial Intelligence, Special Sessions, 17th International Conference, DCAI 2020*. Rodríguez González, S., González-Briones, A., Gola, A., Katranas, G., Ricca, M., Loukanova, R. & Prieto, J. (red.). Springer, s. 205-209 (Advances in Intelligent Systems and Computing, Bind 1242 AISC).

**Digitalisation for energy efficiency and flexibility**

Fatras, N., Ma, Z. & Jørgensen, B. N., 15. dec. 2020, *SDC International Report 2020: Cooperation for Energy Transition*. Holst Jørgense, B., Haakonsson, S., Chen, G. & Hong, Z. (red.). AU Library Scholarly Publishing Services, s. 72-79

#### **Suitability assessment of electricity market mechanisms for electric vehicle grid integration**

Fatras, N., Ma, Z. & Jorgensen, B. N., 14. sep. 2020, *2020 IEEE International Conference on Power Systems Technology, POWERCON 2020*. IEEE, 9230645. (IEEE International Conference on Power Systems Technology, Bind 2020).

#### **Research on Edge Intelligence-based Security Analysis Method for Power Operation System**

Zhu, Z., Tian, Y., Li, F., Yang, H., Ma, Z. & Rong, G., aug. 2020, *Proceedings - 2020 7th IEEE International Conference on Cyber Security and Cloud Computing (CSCloud) and 2020 6th IEEE International Conference on Edge Computing and Scalable Cloud, CSCloud-(EdgeCom)*. IEEE, s. 258-263

#### **Data Architecture for Digital Twin of Commercial Greenhouse Production**

Howard, D. A., Ma, Z., Aaslyng, J. P. M. & Jørgensen, B. N., 15. jul. 2020, *2020 RIVF International Conference on Computing and Communication Technologies (RIVF)*. IEEE, 7 s.

#### **Analysis of Energy Storage Technologies for Island Microgrids: A Case study of the Ærø Island in Denmark**

Santos, A. Q., Ma, Z., Agergaard, M., Frejo Rasmussen, S. & Jørgensen, B. N., 7. maj 2020, *2020 IEEE Power & Energy Society Innovative Smart Grid Technologies Conference (ISGT)*. IEEE, 5 s. (Power & Energy Society Innovative Smart Grid Technologies Conference).

#### **A literature review of energy flexibility in district heating with a survey of the stakeholders' participation**

Ma, Z., Knotzer, A., Billanes, J. D. & Jørgensen, B. N., maj 2020, I: *Renewable and Sustainable Energy Reviews*. 123, 13 s., 109750.

#### **Agent-based Simulation Design for Technology Adoption**

Christensen, K., Ma, Z., Værbak, M., Demazeau, Y. & Jørgensen, B. N., 9. mar. 2020, *Proceeding of 2020 IEEE/SICE International Symposium on System Integration (SII)*. IEEE, s. 873-878

#### **Agent-Based Simulation of Implicit Demand Response Adoption for Water Distribution System Reservoirs**

Værbak, M., Ma, Z., Christensen, K., Demazeau, Y. & Jørgensen, B. N., 9. mar. 2020, *Proceedings of the 2020 IEEE/SICE International Symposium on System Integration, SII 2020*. IEEE, s. 891-896 9026279

#### **Multi-agent Simulation of Households' Behaviors Towards Hourly Electricity Price Scheme in Denmark**

Ma, Z., Værbak, M. & Jørgensen, B. N., 9. mar. 2020, *2020 IEEE/SICE International Symposium on System Integration (SII)*. IEEE, s. 1081-1087

#### **Policy Challenges for the Development of Energy Flexibility Services**

Mlecnik, E., Parker, J., Ma, Z., Corchero, C., Knotzer, A. & Perneti, R., feb. 2020, I: *Energy Policy*. 137, 8 s., 111147.

#### **Distributed Energy Resource Adoption for Campus Microgrid**

Ma, Z., Værbak, M., Rasmussen, R. K. & Jørgensen, B. N., 30. jan. 2020, *Proceedings - 2019 IEEE 17th International Conference on Industrial Informatics, INDIN 2019*. IEEE, s. 1065-1070 (I E E E International Conference on Industrial Informatics).

#### **Optimization of Greenhouse Production process: An Investigation of Energy efficiency potentials**

Ma, Z., Korsgaard, J. & Jørgensen, B. N., jan. 2020, *2019 6th International Conference on Dependable Systems and Their Applications (DSA)*. IEEE, s. 365-370

#### **Agent-based Modeling for Optimizing CO2 Reduction in Commercial Greenhouse Production with the Implicit Demand Response**

Christensen, K., Ma, Z., Demazeau, Y. & Jørgensen, B. N., 2020, *SAMCON2020*. 7 s.

#### **Agent-based Modeling of Climate and Electricity Market Impact on Commercial Greenhouse Growers' Demand Response Adoption**

Christensen, K., Ma, Z., Demazeau, Y. & Jørgensen, B. N., 2020, *2020 RIVF International Conference on Computing and Communication Technologies (RIVF)*. IEEE, 7 s.

### **Optimization of Energy Flexibility in Cooling Process for Brewery Fermentation with Multi-Agent Simulation**

Howard, D. A., Ma, Z., Engvang, J. A., Hagenau, M., Jørgensen, K. L., Olesen, J. F. & Jørgensen, B. N., 2020, *IEEEJ International Workshop on Sensing, Actuation, Motion Control, and Optimization*. The Institute of Electrical Engineers of Japan, 6 s.

### **Business Ecosystem modeling - The Hybrid of System Modeling and Ecological Modeling: An application of the smart grid**

Ma, Z., 21. nov. 2019, I: *Energy Informatics*. 2, 24 s., 35.

### **Universities' Implicit Demand Response Participation**

Ma, Z., Friedrichsen, L., Thomsen, M. & Jørgensen, B. N., 21. nov. 2019, *2019 IEEE PES Innovative Smart Grid Technologies Europe (ISGT-Europe)*. IEEE, 5 s.

### **Agent-based Decision Making for Adoption of Smart Energy Solutions**

Christensen, K., Ma, Z., Værbak, M., Demazeau, Y. & Jørgensen, B. N., nov. 2019, *IEEE Sciences and Humanities International Research Conference (SHIRCON)*. IEEE, s. 1-4 4 s.

### **A survey of demand response adoption in retail stores DR control preferences, stakeholder engagement, and cross-national differences**

Ma, Z., Kuusinen, K. & Kjærgaard, M. B., 22. aug. 2019, I: *Energy Informatics*. 2, 8, 20 s., 8.

### **The Application of Ontologies in Multi-Agent Systems in the Energy Sector: A Scoping Review**

Ma, Z., Schultz, M. J., Christensen, K., Værbak, M., Demazeau, Y. & Jørgensen, B. N., 20. aug. 2019, I: *Energies*. 12, 16, 31 s., 3200.

### **A cross-national comparative study of the political and regulatory impact on the adoption of demand response in Denmark and Austria**

Schultz, M. J., Aabjerg Friis, H. T., Ma, Z. & Jørgensen, B. N., 2019, *ECEEE 2019 Summer Study on Energy Efficiency: Is Efficient Sufficient?*. European Council for an Energy Efficient Economy (ECEEE), s. 541-549

### **Agent-Based Modelling of Demand-Side Flexibility Adoption in Reservoir Pumping**

Værbak, M., Ma, Z., Christensen, K., Demazeau, Y. & Jørgensen, B. N., 2019, *2019 IEEE Sciences and Humanities International Research Conference (SHIRCON)*. IEEE, 4 s.

### **Ecosystem Thinking: Creating Microgrid Solutions for Reliable Power Supply in India's Power System**

Ma, Z., Broe, M., Fischer, A., Sorensen, T. B., Frederiksen, M. V. & Joergensen, B. N., 2019, *Proceedings - 2019 IEEE 1st Global Power, Energy and Communication Conference, GPECOM*. IEEE, s. 392-397

### **Ecosystem-Driven State-of-the-Art Investigation for Social Workers' Back Pain**

Ma, Z., Frank, H., Lange, H., Arentsen, C. & Jørgensen, B. N., 2019, *IEEE Sciences and Humanities International Research Conference (SHIRCON)*. IEEE, s. 1-4 9024747

### **Location-based energy efficiency and flexibility strategies for smart campuses: Consideration of different levels of building intelligence and typologies**

Christensen, K., Ma, Z., Krosgaard, J. & Jørgensen, B. N., 2019, *2019 IEEE PES Innovative Smart Grid Technologies Conference - Latin America (ISGT Latin America)*. IEEE, 6 s. (IEEE ISGT Latin America).

### **Peer-to-Peer Trading Solution for Microgrids in Kenya**

Ma, Z., Bloch-Hansen, K. E. O., Wonsbek Buck, J., Kruse Hansen, A., Juul Henriksen, L., Thielsen, C. F., Santos, A. Q. & Jørgensen, B. N., 2. nov. 2018, *2018 IEEE PES/IAS PowerAfrica*. IEEE, s. 420-425

### **Framework for microgrid design using social, economic, and technical analysis**

Santos, A. Q., Ma, Z., Gellert Olsen, C. & Jørgensen, B. N., 24. okt. 2018, I: *Energies*. 11, 10, 22 s.

**Energy flexibility of the commercial greenhouse growers: The potential and benefits of participating in the electricity market**  
Ma, Z. & Jørgensen, B. N., 3. jul. 2018, *Proceedings of the 2018 IEEE Power & Energy Society Innovative Smart Grid Technologies Conference (ISGT)*. IEEE, s. 1-5 5 s.

**A discussion of building automation and stakeholder engagement for the readiness of energy flexible buildings**  
Ma, Z. & Jørgensen, B. N., 2018, I: *Energy Informatics*. 1, 54.

**An assessment for energy management in retail stores**  
Ma, Z., Jørgensen, B. N. & Billanes, J. D., 2018, I: *Journal of Energy and Power Engineering*. 12, s. 231-243

**Industrial consumers' smart grid adoption: influential factors and participation phases**  
Ma, Z., Jørgensen, B. N. & Asmussen, A., 2018, I: *Energies*. 11, 1

**Solutions for Remote Island Microgrids: Discussion and analysis of Indonesia's remote island energy system**  
Ma, Z., Santos, A. Q., Gamborg, F., Fischer Nielsen, J., Meinhard Johannesen, J., Jensen, M. D. H., Pedersen, M. R. & Jørgensen, B. N., 2018, *Proceeding of the 2018 IEEE Power & Energy Society Innovative Smart Grid Technologies Conference (ISGT)*. IEEE, s. 493-498 (The International Conference on Innovative Smart Grid Technologies).

**The Bright Green Hospitals: Case Studies of Hospitals' Energy Efficiency And Flexibility in Philippines**  
Ma, Z., Billanes, J. D. & Jørgensen, B. N., 2018, *Proceedings of the 8th International Conference on Power and Energy Systems (ICPES)*. IEEE, s. 190-195

**A Business Ecosystem Driven Market Analysis: The Bright Green Building Market Potential**  
Ma, Z., Billanes, J. D. & Jørgensen, B. N., 2017, *Proceedings of the 2017 IEEE Technology & Engineering Management Conference (TEMSCON)*. IEEE, s. 79-85

**Aggregation Potentials for Buildings - Business Models of Demand Response and Virtual Power Plants**  
Ma, Z., Billanes, J. D. & Jørgensen, B. N., 2017, I: *Energies*. 10, 10, 19 s., 1646.

**Consumer Central Energy Flexibility in Office Buildings**  
Billanes, J. D., Ma, Z. & Jørgensen, B. N., 2017, I: *Journal of Energy and Power Engineering*. 2017, 11, s. 621-630

**Energy Flexibility in Retail Buildings: From a business ecosystem perspective**  
Ma, Z., Billanes, J. D., Kjærgaard, M. B. & Jørgensen, B. N., 2017, *Proceedings of the 14th International Conference on the European Energy Market*. IEEE, 6 s.

**Energy Flexibility in the Power System: Challenges and Opportunities in Philippines**  
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