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Applied Power Electronic Systems  
Electric Power Systems and Microgrids  
Intelligent Energy Systems and Flexible Markets  
Power Electronic Control, Reliability and System Optimization  
[Mission] Et bæredygtigt dansk energisystem  
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## Forskningsprofil

Amjad Anvari-Moghaddam (S'10–M'14–SM'17) received the Ph.D. degree (Hons.) from University of Tehran in 2015 in Energy & Power Systems Engineering. He is currently a Full Professor and Leader of the iGRIDS Research Group at the Department of Energy (AAU Energy), Aalborg University, where he is the Vice-Head of Department (Head of Research) and Coordinator of the Integrated Energy Systems Laboratory (IES-Lab). He serves as an alternate Member of Council for Energy Efficient Transition at the Danish Ministry of Climate, Energy and Utilities, a member of Reference Group 5 "Climate, Energy and Mobility" for Horizon Europe (HE) at the Danish Agency for Education and Research (UFS), a Board Member of Energy Mission at Aalborg University, and the Chair of IEEE Denmark Section. Additionally, he holds the position of Editor-in-Chief for Academia Green Energy journal and serves as Associate Editor for several leading journals such as the IEEE Transactions on Power Systems, IEEE Systems Journal, and e-Prime Elsevier. He is an active member of Danish Standardization committee on Supply Systems for Electrical Energy (S-508), IEC Standardization Subcommittees 8B-WG3, WG6 & WG8 as well as the European Committee for Electrotechnical Standardization (CENELEC/SR-73, TC-8X, TC-95X & SR-120). Furthermore, he has contributed as a technical committee member to various IEEE PES/IES/PELS and CIGRE working groups, such as IEEE-CTsoc Consumer Power and Energy, IEEE-PES/SBLC WG P2418.5, CIGRE TOR C6.38, JWG C2/C5.06, and TOR C6.35.

Acknowledged for his contributions to the field, he has been recognized since 2020 as the World's Top 1% Highly-Cited Researcher and the Top 2% Highly-Cited Scientist by ESI-Clarivate Analytics and the Stanford University, respectively. He has received prestigious awards, including the 2023 SPARC and 2020 DUO–India Fellowship Awards, IEEE-CS Outstanding Leadership Award 2018 (Halifax, Nova Scotia, Canada), and the 2017 IEEE-CS Outstanding Service Award (Exeter-UK).

### Research interests:

- Renewable/Hybrid Power Systems Planning, Operation, and Control
- Energy Systems Economics and Markets
- Microgrids and Active Energy Networks
- Sector Coupling, Integrated Energy Systems and Energy Hubs
- Modeling, Control, and Optimization of Power Electronic Systems
- Grid Interconnection of Renewable Energy Sources and Energy Storage Systems
- Operations Research and its applications to Energy Systems:
  - Mathematical modeling
  - Linear and non-linear optimization
  - Risk modeling and management
  - Sensitivity analysis
  - System identification

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## Preface

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**A Stochastic Bi-Level Scheduling Approach for the Participation of EV Aggregators in Competitive Electricity Markets**

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**Optimal Sizing of a Lithium Battery Energy Storage System for Grid-Connected Photovoltaic Systems**

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**Optimal Real-time Dispatch for Integrated Energy Systems: An Ontology-Based Multi-Agent Approach**

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Multi-objective Operation Management of a Renewable Micro Grid with Back-up Micro Turbine/Fuel Cell/Battery Hybrid Power Source  
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Study of Forecasting Renewable Energies in Smart Grids Using Linear predictive filters and Neural Networks  
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An advanced strategy for wind speed forecasting using expert 2-D FIR filters  
Anvari-Moghaddam, A. & Seifi, A., 2010, I: *Advances in Electrical and Computer Engineering*. 10, 4, s. 103-110 8 s.

A New Way of Solar Radiation Forecasting Using Digital FIR Filters  
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Improvement of Power Systems Operation Using Smart Grid Technology  
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Smart Grid: An Intelligent Way to Empower Energy Choices  
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Intelligent Vibration Control of Structures Against Earthquakes Using Hybrid Damper  
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## Aktiviteter

TPC Chair of the 2026 International Conference on Electrical Engineering, Intelligent Control and Artificial Intelligence (EEICAI 2026) (Begivenhed)  
Anvari-Moghaddam, A. (Forperson)  
2026

Invited Speaker: "Driving the Energy Transition: A Techno-Economic Outlook"  
Anvari-Moghaddam, A. (Oplægsholder)  
2025

**Keynote Speaker: "From Transition to Transformation: The Future of Energy Systems and Markets"**  
Anvari-Moghaddam, A. (Oplægsholder)  
2025

**Session Chair: "Cognitive Power Electronics for Smarter, Safer, and More Stable Grids" (Begivenhed)**  
Anvari-Moghaddam, A. (Forperson)  
2025

**Technical Committee Member of the 14th International Conference on Renewable Power Generation (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem)  
2025

**Technical Committee Member of the 15th International Conference on Smart Grids, Green Communications and IT Energy-aware Technologies (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem)  
2025

**Technical Committee Member of the COST Action on Decarbonising Waterborne Transportation (DeWaTra) (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem)  
2025

**Technical Committee Member of the IEEE Innovative Smart Grid Technologies Europe 2025 conference (IEEE-PES ISGT 2025) (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem)  
2025

**Technical Program Committee of the 2025 Nordic Energy Informatics Academy Conference (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem)  
2025

**Technical Track Chair "Power Systems, Renewable Energy Systems and Smart Grid I" (Begivenhed)**  
Anvari-Moghaddam, A. (Forperson)  
2025

**Keynote Speaker: "The challenges of Providing Sustainable Electrical Power in the Era of Energy Transition"**  
Anvari-Moghaddam, A. (Oplægsholder)  
12 jun. 2024

**CENELEC- European Committee for Electrotechnical Standardization (Ekstern organisation)**  
Anvari-Moghaddam, A. (Medlem)  
2024 → ...

**CIGRE Working Group on the Global Sustainable Energy System Coupling Electricity and Hydrogen (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem (Indstillet af AAU))  
2024 → ...

**General Chair of the 2024 International Conference on Smart Grid Technology, Industrial Electrical and Electronics (Begivenhed)**  
Anvari-Moghaddam, A. (Forperson)  
2024

**Klima-, Energi- og Forsyningssministeriet (Ekstern organisation)**  
Anvari-Moghaddam, A. (Medlem (Indstillet af AAU))  
2024 → 2026

**Technical Program Committee of the 2024 International Conference on Green Energy, Computing and Intelligent Technology (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem)  
2024

**Technical Program Committee of the 2024 International Conference on Sustainability in Energy and Buildings (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem)  
2024

**Uddannelses- og Forskningsministeriet (Ekstern organisation)**  
Anvari-Moghaddam, A. (Medlem (Indstillet af AAU))  
2024 → ...

**Wind Energy Denmark 2024 - Special Session on Hybrid Energy Systems (Begivenhed)**  
Anvari-Moghaddam, A. (Forperson)  
2024

**Academia Green Energy (Tidsskrift)**  
Anvari-Moghaddam, A. (Redaktør)  
2023

**Danish Standards (DS): Supply Systems for Electrical Energy (S-508) (Ekstern organisation)**  
Anvari-Moghaddam, A. (Medlem)  
2023 → ...

**Energy Mission Management Board - Aalborg University (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem (Indstillet af AAU))  
2023 → ...

**IEC MSB/SWG 17: Power Semiconductors for an Energy-Wise Society (Ekstern organisation)**  
Anvari-Moghaddam, A. (Medlem)  
2023 → ...

**IEC SC 8A: Grid Integration of Renewable Energy Generation (Ekstern organisation)**  
Anvari-Moghaddam, A. (Medlem)  
2023 → ...

**International Conference on European Energy Market (Begivenhed)**  
Anvari-Moghaddam, A. (Forperson)  
2023

**Keynote Speaker: "From Conventional to Sustainable Energy: Engineering and Financial Outlook"**  
Anvari-Moghaddam, A. (Oplægsholder)  
2023

**Organizing Committee Member of the 25th Conference on Power Electronics and Applications and Exhibition (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem)  
2023

**Program Chair of the 2023 International Conference on Power, Electrical Engineering, Electronics and Control (Begivenhed)**  
Anvari-Moghaddam, A. (Forperson)

2023

**Program Chair of the 2023 International Conference on Power Systems and Electrical Technology (Begivenhed)**  
Anvari-Moghaddam, A. (Forperson)  
2023

**Program Co-Chair of the 7th International Conference on Power Energy Systems and Applications (Begivenhed)**  
Anvari-Moghaddam, A. (Forperson)  
2023

**Scientific Committee Member of the 2nd International Meet on Power and Energy Engineering (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem)  
2023

**Technical Committee Member of the 13th International Conference on Smart Grids, Green Communications and IT Energy-aware Technologies (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem)  
2023

**Technical Program Chair of the 2023 IEEE 41st International Conference on Consumer Electronics (Begivenhed)**  
Anvari-Moghaddam, A. (Forperson)  
2023

**Technical Program Chair of the 2023 International Conference on Advances in Networking, Informatics and Education (Begivenhed)**  
Anvari-Moghaddam, A. (Forperson)  
2023

**Technical Program Committee of the 2023 International Conference on Green Energy, Computing and Intelligent Technology (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem)  
2023

**Workshop Organizer: "Real-Time Digital Simulation and Hardware-in-the-loop Testing of Power and Energy Systems"**  
Anvari-Moghaddam, A. (Paneldeltager)  
2023

**Keynote Speaker: "Operation and Control of Renewable Energy Systems"**  
Anvari-Moghaddam, A. (Oplægsholder)  
21 okt. 2022

**Keynote Speaker: "The Energy Shift: Towards A Renewable Future"**  
Anvari-Moghaddam, A. (Oplægsholder)  
14 okt. 2022

**Keynote Speaker: "Modern Energy Markets and Integrated Energy Systems: Opportunities and Challenges"**  
Anvari-Moghaddam, A. (Oplægsholder)  
27 feb. 2022

**Invited Speaker: "Perspectives for the Clean Energy Transition"**  
Anvari-Moghaddam, A. (Oplægsholder)  
26 feb. 2022

**Vice-Chair of IEEE Denmark (Begivenhed)**  
Anvari-Moghaddam, A. (Næstforperson)

feb. 2022 → ...

**Program Chair of the 2022 International Conference on Power Systems and Electrical Technology (Begivenhed)**  
Anvari-Moghaddam, A. (Forperson)  
2022

**Program Chair of the 5th International Conference on Electrical Engineering and Green Energy (Begivenhed)**  
Anvari-Moghaddam, A. (Forperson)  
2022

**Program Chair of the 6th International Conference on Power Electronics Systems and Application (Begivenhed)**  
Anvari-Moghaddam, A. (Forperson)  
2022

**Publication Chair of the 2022 Asia Conference on Electrical, Power and Computer Engineering (Begivenhed)**  
Anvari-Moghaddam, A. (Forperson)  
2022

**Publication Chair of the 2022 International Conference on Advanced Electronics, Electrical and Green Energy (Begivenhed)**  
Anvari-Moghaddam, A. (Forperson)  
2022

**Session Chair: "Electricity Load Forecasting and Calculation" (Begivenhed)**  
Anvari-Moghaddam, A. (Forperson)  
2022

**Sustainable Energy Technologies and Assessments (Tidsskrift)**  
Anvari-Moghaddam, A. (Redaktør)  
2022 → 2023

**Technical Committee Member of the 10th International Conference on Smart Energy Grid Engineering (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem)  
2022

**Technical Committee Member of the 10th International Conference on Smart Energy Grid Engineering (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem)  
2022

**Technical Committee Member of the 7th International Conference on Renewable Energy and Conservation (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem)  
2022

**Technical Program Committee of the 6th International Conference on Energy Economics and Energy Policy (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem)  
2022

**Technical Program Committee of the 7th International Conference on Advances on Clean Energy Research (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem)  
2022

**Technical Program Committee of the 7th International Conference on Renewable Energy and Conservation (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem)  
2022

**Track Chair of the IEEE 40th International Conference on Consumer Electronics (Begivenhed)**  
Anvari-Moghaddam, A. (Næstforperson)  
2022

**Keynote Speaker: "Green Energy Transition – Opportunities and Challenges"**  
Anvari-Moghaddam, A. (Oplægsholder)  
13 jun. 2021

**CIGRE Working Group on the Impact of Electricity Market Interventions by System Operators during Emergency Situations (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem)  
2021

**Co-Chair of 2021 International Conference on Electrical Engineering and Computer Technology (Begivenhed)**  
Anvari-Moghaddam, A. (Forperson)  
2021

**e-Prime: Advances in Electrical Engineering, Electronics and Energy (Tidsskrift)**  
Anvari-Moghaddam, A. (Redaktør)  
2021 → 2024

**Expert Evaluation Committee - European Coordinated Research on Long-term ICT and ICT-based Scientific Challenges (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem)  
2021 → ...

**Expert Evaluation Committee - Italian Ministry of University and Research REPRISE- PRIN (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem)  
2021 → ...

**Expert Evaluation Committee - National Science Centre Poland (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem)  
2021 → ...

**Expert Panels and Evaluation Committee - Science Fund of the Republic of Serbia (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem)  
2021 → ...

**I E E E Systems Journal (Tidsskrift)**  
Anvari-Moghaddam, A. (Redaktør)  
2021 → 2024

**IET Energy Conversion and Economics (Tidsskrift)**  
Anvari-Moghaddam, A. (Redaktør)  
2021 → ...

**Invited Talk: "Renewable Energy Transition and Living Sustainably"**  
Anvari-Moghaddam, A. (Oplægsholder)  
2021

**Keynote Speaker: "Flexible and Resilient Energy Networks for a Low-Carbon Future"**  
Anvari-Moghaddam, A. (Oplægsholder)  
2021

**Regional Chair of 2021 IEEE the 4th International Conference on Power and Energy Applications (Begivenhed)**  
Anvari-Moghaddam, A. (Forperson)  
2021

**Scientific Evaluation Committee LEAP-RE (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem)  
2021 → ...

**SDIA Steering Group on Data Centre Power Flexibility (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem)  
2021 → ...

**SDIA Steering Group on Excess Heat Utilization from Data Centers (Begivenhed)**  
Anvari-Moghaddam, A. (Forperson)  
2021 → ...

**Session Chair: "Active Consumers in Energy Communities" (Begivenhed)**  
Anvari-Moghaddam, A. (Forperson)  
2021

**Session Chair: "Low-Inertia Power Grids: Challenges and Solutions" (Begivenhed)**  
Anvari-Moghaddam, A. (Forperson)  
2021 → ...

**Session Chair: "Smart Grid and Micro Grid"**  
Anvari-Moghaddam, A. (Arrangør)  
2021

**Technical Program Committee of the 14th International Conference on Advances in Circuits, Electronics and Micro-electronics (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem)  
2021

**Technical Program Committee of the 5th International Conference on Energy Economics and Energy Policy – ICEEEP 2021 (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem)  
2021

**Technical Program Committee of the 6th International Conference on Advances on Clean Energy Research – ICACER 2021 (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem)  
2021

**Webinar: "The Fundamentals of Electronics for Energy Generation, Conversion, Distribution, and Storage"**  
Anvari-Moghaddam, A. (Gæsteforelæser)  
2021

**Keynote Speaker: "New Energy Outlook and Future Energy Markets"**  
Anvari-Moghaddam, A. (Oplægsholder)  
4 dec. 2020

**I E E Transactions on Power Systems (Tidsskrift)**  
Anvari-Moghaddam, A. (Redaktør)  
jan. 2020 → dec. 2023

**Energies (Tidsskrift)**  
Anvari-Moghaddam, A. (Redaktør)  
2020

**Expert Evaluation Committee - Qatar National Research Fund (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem)  
2020 → ...

**IEEE Open Access Journal of Power and Energy (Tidsskrift)**  
Anvari-Moghaddam, A. (Redaktør)  
2020

**IEEE Power Engineering Letters (Tidsskrift)**  
Anvari-Moghaddam, A. (Redaktør)  
2020

**IET Smart Grid (Tidsskrift)**  
Anvari-Moghaddam, A. (Redaktør)  
2020 → 2023

**International Journal of Electrical Power & Energy Systems (Tidsskrift)**  
Anvari-Moghaddam, A. (Redaktør)  
2020

**International Transactions on Electrical Energy Systems (Tidsskrift)**  
Anvari-Moghaddam, A. (Redaktør)  
2020

**Inventions (Tidsskrift)**  
Anvari-Moghaddam, A. (Redaktør)  
2020

**Member of Technical Stream Committee of IEEE CTsoc Consumer Power and Energy – CPE (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem)  
2020 → ...

**Program Committee Member of the First International Conference on Electrical Energy and Power Engineering (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem)  
2020

**Session Chair: "Coordinated Operation and Planning of Hybrid Energy Systems" (Begivenhed)**  
Anvari-Moghaddam, A. (Forperson)  
2020

**Session Chair: "Decision Making Approaches for Integrated Energy Systems" (Begivenhed)**  
Anvari-Moghaddam, A. (Forperson)  
2020

**Session Chair: "Energy Storage Systems and Charging Technologies for Electric Vehicles" (Begivenhed)**  
Anvari-Moghaddam, A. (Forperson)  
2020

**Technical Committee Member IEEE-PES/SBLC WG for Blockchain in Energy – IEEE SA P2418.5 (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem)  
2020 → ...

**Technical Committee Member of IEEE CES Energy Management of CE Hardware and Software Systems –EMC (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem)  
2020

**Technical Committee Member of IEEE IES Smart Grids (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem)  
2020

**Technical Program Committee of the 3rd International Conference on Smart Energy Systems and Technologies – SEST 2020 (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem)  
2020

**Track Chair of the 3rd International Conference on Electrical Engineering and Applications (Begivenhed)**  
Anvari-Moghaddam, A. (Næstforperson)  
2020

**Session Chair: "Energy Risks and Assessment Policies" (Begivenhed)**  
Anvari-Moghaddam, A. (Forperson)  
27 aug. 2019

**Session Chair: "Advanced Power Electronics for Resilient Active Networks and Microgrids" (Begivenhed)**  
Anvari-Moghaddam, A. (Forperson)  
jun. 2019

**International Advisory Board of the 2019 IEEE International Conference on Electrical, Computer and Communication Technologies (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem)  
20 feb. 2019 → 22 feb. 2019

**Applied Thermal Engineering (Tidsskrift)**  
Anvari-Moghaddam, A. (Redaktør)  
2019

**Electrical Engineering Open Access Open Journal (Tidsskrift)**  
Anvari-Moghaddam, A. (Redaktør)  
2019

**Electronics (Tidsskrift)**  
Anvari-Moghaddam, A. (Redaktør)  
2019

**IEEE Access (Tidsskrift)**  
Moghaddam, A. A. (Redaktør)  
2019 → 2022

**Invited Talk: "The Role of Demand Side Management in Smart Energy"**  
Anvari-Moghaddam, A. (Oplægsholder)  
2019

**Session Chair: "Demand Response I" (Begivenhed)**  
Anvari-Moghaddam, A. (Forperson)  
2019

**Session Chair: "Energy Storage for Future Power and Energy Systems" (Begivenhed)**  
Anvari-Moghaddam, A. (Forperson)  
2019

**Sustainability (Tidsskrift)**  
Anvari-Moghaddam, A. (Redaktør)  
2019 → 2020

**Technical Committee Member of IEEE IES Energy Storage – ESTC (Ekstern organisation)**  
Anvari-Moghaddam, A. (Medlem)  
2019 → ...

**Technical Committee Member of IEEE PES Energy Development and Power Generation Committee – ED&PG (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem)  
2019

**Technical Committee Member of IEEE PES Power System Operation, Planning and Economics - PSOPE (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem)  
2019

**Technical Program Committee of the 19th IEEE International Conference on Scalable Computing and Communications (Begivenhed)**  
Moghaddam, A. A. (Medlem)  
2019

**Technical Program Committee of the 1st International Conference on Advances in Electrical, Computing, Communications and Sustainable Technologies (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem)  
2019

**Technical Program Committee of the 1st International Conference on Emerging Electrical Energy, Electronics and Computing Technologies (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem)  
2019

**Technical Program Committee of the 8th IET International Conference on Renewable Power Generation (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem)  
2019

**Vice-Chair of IEEE-PES Denmark Chapter (Begivenhed)**  
Anvari-Moghaddam, A. (Næstforperson)  
2019 → ...

**Technical Program Committee of the 4th International Symposium on Dependability in Sensor, Cloud, and Big Data Systems and Applications (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem)  
11 dec. 2018 → 13 dec. 2018

**IET Renewable Power Generation (Tidsskrift)**

Anvari-Moghaddam, A. (Redaktør)

okt. 2018 → 2021

**International Scientific Committee of the 3rd International Conference on Computer Technology, Mechanical and Electrical Engineering (Begivenhed)**

Anvari-Moghaddam, A. (Medlem)

17 aug. 2018 → 19 aug. 2018

**Workshop: IoT Solutions for Smart Healthcare**

Anvari-Moghaddam, A. (Foredragsholder), Yang, P. (Foredragsholder) &amp; Samani, A. (Foredragsholder)

31 jul. 2018 → 1 aug. 2018

**Session Chair: "IoT Networks and Communications" (Begivenhed)**

Anvari-Moghaddam, A. (Medlem)

30 jul. 2018

**Technical Program Committee of the 2018 IEEE International Conference on Internet of Things (Begivenhed)**

Anvari-Moghaddam, A. (Medlem)

30 jul. 2018 → 3 aug. 2018

**Workshop: IoT-driven eNergy sysTems (INET) - Advances and Applications**

Anvari-Moghaddam, A. (Foredragsholder), Guan, Y. (Foredragsholder), Quintero, J. C. V. (Foredragsholder) &amp; Guerrero, J. M. (Foredragsholder)

30 jul. 2018

**CIGRE Working Group on Rural Electrification (Begivenhed)**

Anvari-Moghaddam, A. (Medlem)

13 jul. 2018 → dec. 2020

**Technical Program Committee of the 16th IEEE International Conference on Smart City (Begivenhed)**

Anvari-Moghaddam, A. (Medlem)

28 jun. 2018 → 30 jun. 2018

**Tutorial: Advances in Microgrids Control and Management**

Anvari-Moghaddam, A. (Foredragsholder), Shafiee, Q. (Foredragsholder), Bevrani , H. (Foredragsholder) &amp; Guerrero, J. M. (Foredragsholder)

20 feb. 2018 → 21 feb. 2018

**Applied Sciences (Tidsskrift)**

Anvari-Moghaddam, A. (Redaktør)

2018 → ...

**CIGRE Working Group on Distributed Energy Resources Aggregation Platforms for the Provision of Flexibility Services (Begivenhed)**

Anvari-Moghaddam, A. (Medlem)

2018 → ...

**Energies (OA Journal) (Tidsskrift)**

Anvari-Moghaddam, A. (Redaktør)

2018 → ...

**Future Generation Computer Systems (Tidsskrift)**

Anvari-Moghaddam, A. (Redaktør)

2018

**IEEE Working Group Smart Buildings, Loads and Customer Systems (Begivenhed)**  
Anvari-Moghaddam, A. (Sekretær)  
2018 → ...

**Invited Talk: "Advanced Architectures and Control Concepts for Microgrids"**  
Anvari-Moghaddam, A. (Oplægsholder)  
2018

**Invited Talk: "Advances in Control and Management of AC/DC Microgrids"**  
Anvari-Moghaddam, A. (Oplægsholder)  
2018

**Technical Program Committee of the Second EAI International Conference on Smart Grid and Internet of Things (SGIoT 2018) (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem)  
2018

**Technical Program Committee of the 2017 IEEE International Conference on Internet of Things (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem)  
22 jun. 2017

**Workshop: The Energy Internet-Integrating Internet of Things into the Smart Energy Systems**  
Anvari-Moghaddam, A. (Paneldeltager)  
21 jun. 2017

**Keynote Speaker: Research Challenges and Future Directions in Industrial and Residential Microgrids**  
Anvari-Moghaddam, A. (Oplægsholder)  
23 feb. 2017

**SCIREA Journal of Electrical Engineering (Tidsskrift)**  
Anvari-Moghaddam, A. (Redaktør)  
feb. 2017

**IEEE Internet of Things Community (Ekstern organisation)**  
Anvari-Moghaddam, A. (Medlem)  
2017

**IEEE Internet of Things Journal (Tidsskrift)**  
Anvari-Moghaddam, A. (Redaktør)  
2017

**IEEE-Senior Member (Ekstern organisation)**  
Anvari-Moghaddam, A. (Medlem)  
2017

**I E E E Transactions on Industrial Informatics (Tidsskrift)**  
Anvari-Moghaddam, A. (Redaktør)  
2017

**Technical committee member of IEEE Working Group P2004 (HIL Simulation and Testing) (Ekstern organisation)**  
Anvari-Moghaddam, A. (Medlem)  
2017

**Technical committee member of the Second International Conference on Intelligent Information Technologies (ICIIT 2017) (Begivenhed)**

Anvari-Moghaddam, A. (Medlem)  
2017

**AAU Certification in English as a Medium of Instruction**

Anvari-Moghaddam, A. (Andet)  
2017

**Microgrid Symposium 2016: "Shipboard Microgrids-Advances in Control, Operation and Management"**

Anvari-Moghaddam, A. (Oplægsholder)  
20 okt. 2016 → 21 okt. 2016

**Applied Sciences (Tidsskrift)**

Anvari-Moghaddam, A. (Redaktør)  
1 okt. 2016

**Plenary Talk: "Energy Management Solutions for Sustainable Homes and Microgrids"**

Anvari-Moghaddam, A. (Oplægsholder)  
29 sep. 2016

**I-EMS Group at Center for Urban Energy (iCUE)-Ryerson University (Ekstern organisation)**

Anvari-Moghaddam, A. (Medlem)  
1 sep. 2016

**Invited Talk: "Smart Grids- A Way to Enable Cost-Effective and Comfort-Aware Energy Management Solutions"**

Anvari-Moghaddam, A. (Oplægsholder)  
3 apr. 2016

**Session Chair: "Advanced Technology Applications in Smart Power Grids"**

Anvari-Moghaddam, A. (Paneldeltager)  
apr. 2016

**Invited Talk: "Microgrids- Recent Activities, Research, Development, and Demonstration Projects"**

Anvari-Moghaddam, A. (Oplægsholder)  
14 feb. 2016 → 15 feb. 2016

**OPAL-RT Certificate of Training**

Anvari-Moghaddam, A. (Deltager)  
2016

**Technical committee member of IES Resilience and Security for Industrial Applications – ReSia (Ekstern organisation)**

Anvari-Moghaddam, A. (Medlem)  
2016

**Session Chair: "Distributed Systems"**

Anvari-Moghaddam, A. (Paneldeltager)  
sep. 2015

**Technical committee member of Renewable Energy Systems-IEEE Industrial Electronics Society (Ekstern organisation)**

Anvari-Moghaddam, A. (Medlem)  
1 aug. 2015

**IEEE Smart Grid Community (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem)  
2015

**IEEE Young Professionals (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem)  
2015

**MOHANIR Eng. Consulting Company A/S (Ekstern organisation)**  
Anvari-Moghaddam, A. (Næstforperson)  
2015

**One-Day Seminar for PhD Supervisors**  
Anvari-Moghaddam, A. (Deltager)  
2015

**IEEE Power Electronic Society (Begivenhed)**  
Anvari-Moghaddam, A. (Medlem)  
2014

**Program Co-Chair of the 2023 the 7th International Conference on Power Energy Systems and Applications (Begivenhed)**  
Anvari-Moghaddam, A. (Forperson)  
2013 → ...

**Iran National Elite Foundation (Ekstern organisation)**  
Anvari-Moghaddam, A. (Medlem)  
jul. 2011

**Organization for Engineering Order of Buildings-Electrical Installations (Ekstern organisation)**  
Anvari-Moghaddam, A. (Medlem)  
2011

## Priser

**2016 Otto Mørnsts Travel Award**  
Anvari-Moghaddam, A. (Modtager), 2016

**2018 Otto Mørnsts Travel Award**  
Anvari-Moghaddam, A. (Modtager), 2018

**2019 Otto Mørnsts Travel Award**  
Anvari-Moghaddam, A. (Modtager), 2019

**2020 ET-AAU Supervisory Award**  
Anvari-Moghaddam, A. (Modtager), 2020

**2020 ITEES Outstanding Editor Award**  
Anvari-Moghaddam, A. (Modtager), 2020

**2023 SPARC Fellowship Award (Professors)**  
Anvari-Moghaddam, A. (Modtager), 2023

**Best Conference Paper Award (ICPE 2023-ECCE Asia)**  
Anvari-Moghaddam, A. (Modtager), 2023

**Best Conference Paper Award (SGC 2021)**  
Anvari-Moghaddam, A. (Modtager), 2021

**Best Paper Award - Renewable Energy Global (REG) Innovations Ltd.**  
Anvari-Moghaddam, A. (Modtager), 2011

**DANIDA Research Fellowship Grant**  
Anvari-Moghaddam, A. (Modtager), 2019

**DUO – India Fellowship Award**  
Anvari-Moghaddam, A. (Modtager), 2020

**IEEE-CS Outstanding Leadership Award 2018**  
Anvari-Moghaddam, A. (Modtager), 2018

**IEEE-CS Outstanding Service Award**  
Anvari-Moghaddam, A. (Modtager), 2017

**IEEE ICPE 2023-ECCE Asia**  
Gao, X. (Modtager), Zhou, D. (Modtager), Anvari-Moghaddam, A. (Modtager) & Blaabjerg, F. (Modtager), 24 maj 2023

**Inventions 2017 Best Paper Award**  
Anvari-Moghaddam, A. (Modtager), 2017

**Outstanding Review Award (International Journal of Electrical Power & Energy Systems - Elsevier)**  
Anvari-Moghaddam, A. (Modtager), 2018

**Outstanding Review Award (Journal of Applied Energy - Elsevier)**  
Anvari-Moghaddam, A. (Modtager), 2017

**Outstanding Review Award (Journal of Cleaner Production - Elsevier)**  
Anvari-Moghaddam, A. (Modtager), 2018

**Outstanding Review Award (Journal of Energy - Elsevier)**  
Anvari-Moghaddam, A. (Modtager), 2016

**Outstanding Review Award (Journal of Energy Storage - Elsevier)**  
Anvari-Moghaddam, A. (Modtager), 2018

**Outstanding Review Award (Sustainable Cities and Society - Elsevier)**  
Anvari-Moghaddam, A. (Modtager), 2018

**Recognized Review Award (Energy and Buildings - Elsevier)**  
Anvari-Moghaddam, A. (Modtager), 2018

**Recognized Review Award (Journal of Energy Storage - Elsevier)**  
Anvari-Moghaddam, A. (Modtager), 2017

**Stanford's Top 2% Highly-Cited Scientist 2020**  
Anvari-Moghaddam, A. (Modtager), 2020

**Stanford's Top 2% Highly-Cited Scientist 2021**  
Anvari-Moghaddam, A. (Modtager), 2021

**Stanford's Top 2% Highly-Cited Scientist 2022**  
Anvari-Moghaddam, A. (Modtager), 2022

**Stanford's Top 2% Highly-Cited Scientist 2023**  
Anvari-Moghaddam, A. (Modtager), 2023

**World's Top 1% Highly-Cited Researcher 2019**  
Anvari-Moghaddam, A. (Modtager), 20 apr. 2019

**World's Top 1% Highly-Cited Researcher 2020**  
Anvari-Moghaddam, A. (Modtager), 2020

**World's Top 1% Highly Cited Researcher 2021**  
Anvari-Moghaddam, A. (Modtager), 2021

**World's Top 1% Highly-Cited Researcher 2022**  
Anvari-Moghaddam, A. (Modtager), 2022

**World's Top 1% Highly-Cited Researcher 2023**  
Anvari-Moghaddam, A. (Modtager), 2023

## Bevillinger

**BidX: Optimized Bidding strategies for PtX systems in stochastic energy markets**  
Anvari-Moghaddam, A. (PI (principal investigator)), Petralia, M. (Projektdeltager) & Pugliese, A. A. (Projektkoordinator)  
Centrica Energy Trading A/S: 380.341,00 kr.  
01/09/2024 → 31/08/2027

## Projekter

**A High-Fidelity PHIL-based Platform for Real-Time Simulation and Testing of Power and Energy Systems**  
Anvari-Moghaddam, A. (PI (principal investigator)), Oshnoei, A. (Projektdeltager) & Ribeiro, R. L. D. A. (Col (co-investigator))  
01/08/2021 → 28/02/2022

**COPPER: Cities for Open and Participative Planning for Electricity grid Resilience**  
Anvari-Moghaddam, A. (PI (principal investigator)), Hajizadeh, A. (Projektdeltager), Sinha, R. (Projektdeltager), Subramanyam, S. A. (Projektansøger), Steffensen, B. (Projektkoordinator) & Pugliese, A. A. (Projektkoordinator)  
Den Europæiske Fond for Regionaludvikling  
01/10/2023 → 30/09/2027

**COMiG: Cognitive Control and Operation Management of Microgrids**  
Li, S. (PI (principal investigator)), Anvari-Moghaddam, A. (Supervisor) & Blaabjerg, F. (Supervisor)  
01/09/2022 → 30/09/2025

**Continuous-time Modeling of Integrated Energy Systems**  
Nourollahi, R. (PI (principal investigator)), Zare, K. (Supervisor), Mohammadi-Ivatloo, B. (Supervisor), Vahidinasab, V. (Supervisor) & Anvari-Moghaddam, A. (Supervisor)

01/09/2019 → 01/07/2023

**Coordinated Control of Distributed Virtual Inertia Units to Improve Frequency Stability of Islanded Microgrids**  
Jafari, M. (PI (principal investigator)), B. Gharehpetian, G. (Supervisor) & Anvari-Moghaddam, A. (Supervisor)  
23/09/2019 → 29/02/2024

**COPLEWIC: Collaborative Operational Planning for Local Energy-Wise Communities**

Anvari-Moghaddam, A. (PI (principal investigator)), Bak-Jensen, B. (CoPI), Teli, M. (Projektdeltager), Sperling, K. (Projektdeltager), Jensen, R. (Projektdeltager), Hellwig, R. T. (Projektdeltager), Rüdiger, M. (Projektdeltager), Lundholm-Stenkjær, K. (Projektdeltager) & Horsbøl, A. (Projektdeltager)

01/09/2023 → 31/12/2025

**Development of Energy Supply Model for District Heating System on A Medium Scale with the Aim of Maximizing the Share of Renewable Energy**

Eslami, S. (PI (principal investigator)), Noorollahi, Y. (Supervisor), Anvari-Moghaddam, A. (Supervisor) & Marzband, M. (Supervisor)

01/09/2018 → 28/09/2023

**DREAM: Design of Microgrid-Based Charging Station in Rural Areas for Enhancing Electrical Mobility**

Kumar L, A. (PI (principal investigator)), Anvari-Moghaddam, A. (CoPI), Alexander, A. (Projektdeltager) & Levron, Y. (Projektdeltager)

01/08/2023 → 31/07/2025

**Efficient Power Management for Solar-Integrated Residential Units with Weak Grid Connectivity**

Issa, H. H. (PI (principal investigator)), Abedini, M. (Supervisor), Hamzeh, M. (Supervisor) & Anvari-Moghaddam, A. (Supervisor)

01/09/2020 → 28/10/2024

**EFFORT: Electrification and flexibility support from Green Port North**

Bak-Jensen, B. (PI (principal investigator)), Anvari-Moghaddam, A. (CoPI), Pillai, J. R. (CoPI), Ghaemi, S. (Projektdeltager) & Pugliese, A. A. (Projektkoordinator)

ELFORSK

01/01/2023 → 31/12/2025

**Energy Expenditure Estimates in Smart Homes**

Hedegaard, M. (PI (principal investigator)), Anvari-Moghaddam, A. (Supervisor) & Samani, A. (Col (co-investigator))  
01/08/2018 → 31/12/2018

**Energy Management System in Shipboard Microgrid**

Othman, M. B. (PI (principal investigator)), Anvari-Moghaddam, A. (Supervisor) & Guerrero, J. M. (Supervisor)  
20/04/2016 → 01/05/2019

**ClusterSoutH2: Erhvervsfyrtårn Syd: ClusterSoutH2 - Designing a PTX Ecosystem in Southern Denmark**

Hajizadeh, A. (PI (principal investigator)), Anvari-Moghaddam, A. (CoPI), Ghaemi, S. (Projektdeltager), Mandø, M. (Projektdeltager), Pedersen, S. (Projektdeltager), Yang, Z. (Projektdeltager), Nielsen, M. P. (Projektdeltager), Wani, U. B. (Projektdeltager) & Christensen, M. D. (Projektkoordinator)

REACT-EU-tilskud (Erhvervsstyrelsen/EU)

23/11/2021 → 31/08/2023

**GreEnSeC: Erhvervsfyrtårn Syd: Etablering af Center for Grøn Energi og Sektorkobling**

Iov, F. (PI (principal investigator)), Liniger, J. (Projektdeltager), Hajizadeh, A. (Projektdeltager), Anvari-Moghaddam, A. (Projektdeltager), Mohammad Nia, A. (Projektdeltager), Zhao, W. (Projektdeltager) & Christensen, M. D. (Projektkoordinator)

REACT-EU-tilskud (Erhvervsstyrelsen/EU)

23/11/2021 → 31/08/2023

**Evaluation and Optimization of Resilience and Reliability of Water Supply Pumps of Fire Extinguishing Systems in a Process Industry**

Ghaljahi, M. (PI (principal investigator)), Omidi, L. (Supervisor) & Anvari-Moghaddam, A. (Supervisor)  
01/09/2022 → 30/09/2026

**HeatReFlex: Green and Flexible District Heating/Cooling**

Anvari-Moghaddam, A. (PI (principal investigator)), Guerrero, J. M. (Projektdeltager), Nami, H. (Projektdeltager) & Mohammadiivatloo, B. (Projektdeltager)  
Danida Fellowship Centre  
01/05/2019 → 30/04/2022

**Grid-Interactive Power Converters: Control and Stability**

Gao, X. (PI (principal investigator)), Zhou, D. (Supervisor), Anvari-Moghaddam, A. (Supervisor) & Blaabjerg, F. (Supervisor)  
01/02/2021 → 31/07/2024

**Hybrid Generation Solution for Mining Site**

Murkowska, M. I. (PI (principal investigator)), Rey, P. Z. (PI (principal investigator)), Reitich, G. A. C. (PI (principal investigator)), Anvari-Moghaddam, A. (Supervisor) & Leite, G. (Col (co-investigator))  
01/02/2020 → 30/05/2020

**DiCyPS: IT-Infrastructures for Control, Optimization and Management in Energy Systems**

Guerrero, J. M. (Projektdeltager), Anvari-Moghaddam, A. (Projektdeltager), Vasquez, J. C. (Projektdeltager), Bak-Jensen, B. (Projektleder) & Guldbæk, B. K. (Projektkoordinator)  
Innovationsfonden  
01/01/2015 → 31/12/2020

**LOCOMUTIVE: Local Cooperative Multi-Market for Value-Stacking and Managing Symbiosis in Eco-Industrial Clusters**

Anvari-Moghaddam, A. (PI (principal investigator)), Ghaemi, S. (Projektdeltager), Subramanyam, S. A. (Projektdeltager) & Frøstrup, S. (Projektkoordinator)  
Villum Fonden  
01/05/2023 → 30/04/2024

**Long-term Distribution System Planning in Presence of Regional Energy Networks**

Dehghani Sanij, M. (PI (principal investigator)), Mirzaei, A. (Supervisor) & Anvari-Moghaddam, A. (Supervisor)  
01/09/2018 → 30/04/2022

**MARGIN: Market-driven Multi-Energy Operational Planning in Indonesia**

Anvari-Moghaddam, A. (PI (principal investigator)), Blaabjerg, F. (Projektdeltager), Hajizadeh, A. (Projektdeltager), Frøstrup, S. (Projektkoordinator) & Pugliese, A. A. (Projektkoordinator)  
Danida Fellowship Centre  
01/04/2022 → 31/12/2025

**ML-LEM: Machine Learning Based Trading Strategies in Local Energy Markets**

Khaskheli, S. (PI (principal investigator)) & Anvari-Moghaddam, A. (Supervisor)  
01/02/2023 → 31/01/2026

**Modelling and Improvement of Energy Flexibility in nZEDs Based on Green Hydrogen**

Gharibvand, H. (PI (principal investigator)), B. Gharehpetian, G. (Supervisor) & Anvari-Moghaddam, A. (Supervisor)  
23/09/2021 → 20/09/2025

**Flywheel : Off-Shore Application of the Flywheel Energy Storage**

Guerrero, J. M. (Projektleder), Dragicevic, T. (Projektdeltager) & Anvari-Moghaddam, A. (Projektdeltager)  
Den Danske Maritime Fond  
13/11/2014 → 28/02/2016

**Optimal Allocation of Hybrid Energy Storage Systems for Stackable Applications in Distribution Grid**

Zhang, Y. (PI (principal investigator)), Blaabjerg, F. (Supervisor), Peyghami, S. (Supervisor), Dragicevic, T. (Supervisor) & Anvari-Moghaddam, A. (Supervisor)

01/05/2021 → 30/04/2024

**Optimal Energy Management of Hybrid Electric Ships Considering Load Uncertainty**

Vahabzad, N. (PI (principal investigator)), Mohammadi-Ivatloo, B. (Supervisor), Tohidi, S. (Supervisor) & Anvari-Moghaddam, A. (Supervisor)

01/09/2018 → 01/10/2020

**Optimal Energy Management of Local Industrial Energy Hubs**

Zare Oskouei, M. (PI (principal investigator)), Mohammadi-Ivatloo, B. (Supervisor), Abapour, M. (Supervisor), Shafiee, M. (Supervisor) & Anvari-Moghaddam, A. (Supervisor)

23/09/2018 → 28/02/2021

**Optimal Operation of Multiple Energy Distribution Companies Integrated with Emerging Energy Resources**

Mirzaei, M. A. (PI (principal investigator)), Mohammadi-Ivatloo, B. (Supervisor), Marzband, M. (Supervisor) & Anvari-Moghaddam, A. (Supervisor)

23/09/2018 → 22/05/2021

**Optimal Operation of Natural Gas and Reconfigurable Electricity Networks in presence of Connected Energy Hubs**

Hemmati , M. (PI (principal investigator)), Mohammadi-Ivatloo, B. (Supervisor), Abapour, M. (Supervisor) & Anvari-Moghaddam, A. (Supervisor)

01/09/2018 → 30/06/2021

**BidX: Optimized Bidding strategies for PtX systems in stochastic energy markets**

Anvari-Moghaddam, A. (PI (principal investigator)), Petralia, M. (Projektdeltager) & Pugliese, A. A. (Projektkoordinator) Centrica Energy Trading A/S

01/09/2024 → 31/08/2027

**Resilient Frequency and Voltage Control of Isolated Microgrids for an Improved Performance Against FDI Cyber-Attacks Using Coordinated SoC of Batteries**

Solat, A. (PI (principal investigator)), B. Gharehpetian, G. (Supervisor), Salay Naderi, M. (Supervisor) & Anvari-Moghaddam, A. (Supervisor)

01/09/2019 → 29/02/2024

**Short Term Scheduling of Decentralized Peer-To-Peer Energy Trading in an Industrial Microgrid Considering the Central Shared Energy**

Aminlou, A. (PI (principal investigator)), Mohammadi-Ivatloo, B. (Supervisor), Zare, K. (Supervisor), Anvari-Moghaddam, A. (Supervisor) & Razzaghi, R. (Supervisor)

01/09/2018 → 01/12/2022

**Stochastic Coordinated Charging Scheduling of Electric Vehicles with Multiple Charging Stations in Multi-Region Transportation System**

Alaee, P. (PI (principal investigator)), Anvari-Moghaddam, A. (Supervisor) & Bems, J. (Supervisor)

01/07/2021 → 01/07/2025