

Amjad Anvari-Moghaddam
Professor
AAU Energi
Det Ingeniør- og Naturvidenskabelige Fakultet
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 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 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

Publikationer

2418.5-2025 - IEEE Guide for Blockchain in Power and Energy Systems
Anvari-Moghaddam, A., 2026, IEEE Press. 86 s.

Preface

Anvari-Moghaddam, A., Ghaemi, S., You, S. & Blaabjerg, F., 1 jan. 2025, *Power-to-X in Regional Energy Systems: Planning, Operation, Control, and Market Perspectives*. CRC Press, s. xiii-xvi

IEEE Recommended Practice for Hardware-in-the-Loop (HIL) Simulation-Based Testing of Electric Power Apparatus and Controls

Anvari-Moghaddam, A., 2025, IEEE (Institute of Electrical and Electronics Engineers). 146 s.

Power-to-X in Regional Energy Systems: Planning, Operation, Control, and Market Perspectives

Anvari-Moghaddam, A. (Redaktør), Ghaemi, S. (Redaktør), You, S. (Redaktør) & Blaabjerg, F. (Redaktør), 2025, CRC Press. 528 s.

Power Electronic Applications in Power and Energy Systems

Anvari-Moghaddam, A., Davari, P. & Hegazy, O., mar. 2023, I: Applied Sciences (Switzerland). 13, 5, 3 s., 3110.

Uniting Science, Policy, and Industry for A Greener World: Unveiling The Path of Academia Green Energy

Anvari-Moghaddam, A., 2023, I: Academia Green Energy. 1, 1, s. 1-3

Sustainable Energy Systems Planning, Integration and Management (Volume II)

Anvari-Moghaddam, A., Mohammadi-ivatloo, B., Asadi, S. & Shahidehpour, M., nov. 2022, I: Applied Sciences (Switzerland). 12, 21, 10914.

Multi-energy islands: Advances in local district heating, cooling and power systems

Anvari-Moghaddam, A., Besagni, G. & Markides, C. N., 25 nov. 2021, I: Applied Thermal Engineering. 199, 117423.

Emerging Technologies for the Energy Systems of the Future

Anvari-Moghaddam, A. (Redaktør), Vahidinasab, V. (Redaktør), Mohammadi-ivatloo, B. (Redaktør), Razzaghi, R. (Redaktør) & Mohammadi, F. (Redaktør), 2021, MDPI AG. 214 s.

Microgrids: Advances in Operation, Control, and Protection

Anvari-Moghaddam, A. (Redaktør), Abdi, H. (Redaktør), Mohammadi-ivatloo, B. (Redaktør) & Hatziargyriou, N. (Redaktør), 2021, 1 udg. Springer. 643 s. (Power Systems).

Microgrids: The Path to Sustainability

Anvari-Moghaddam, A. (Redaktør), 2021, MDPI AG. 282 s.

Rural Electrification

Anvari-Moghaddam, A., Dedekind, K., Burke, Ó., Mcganaghan, M. & Chibambo, C., 2021, CIGRE (Conseil international des grands réseaux électriques). 231 s.

Sustainable Energy Systems Planning, Integration and Management

Anvari-Moghaddam, A. (Redaktør), Mohammadi-ivatloo, B. (Redaktør), Asadi, S. (Redaktør), Larsen, K. G. (Redaktør), Shahidehpour, M. (Redaktør), Rusu, E., Wang, C.-N., Gebresenbet, G., Garcia, D., Germer, S., Liu, T., Luo, P., Ruz-Hernandez, J. A., He, H., Wang, C., Wang, S., Orosa, J. A., Liu, Y. & Chen, C., jan. 2020, MDPI AG. 286 s.

Sustainable Energy Systems Planning, Integration, and Management

Anvari-Moghaddam, A., Mohammadi-ivatloo, B., Asadi, S., Larsen, K. G. & Shahidehpour, M., 1 okt. 2019, I: Applied Sciences. 9, 20, 5 s., 4451.

Energy Management Systems for DC Microgrids

Anvari-Moghaddam, A., Dragicevic, T. & Delimar, M., okt. 2018, *DC Distribution Systems and Microgrids*. Dragičević, T., Wheeler, P. & Blaabjerg, F. (red.). 1 udg. Institution of Engineering and Technology (IET), Bind 1. s. 91-117 27 s.

A Multi-Agent Based Energy Management Solution for Integrated Buildings and Microgrid System

Anvari-Moghaddam, A., Rahimi-Kian, A., Mirian, M. S. & Guerrero, J. M., okt. 2017, I: *Applied Energy*. 203, s. 41–56

Advances in Integrated Energy Systems Design, Control and Optimization

Anvari-Moghaddam, A. (Redaktør), Zhu, Z., Choi, J.-W., Wang, J., Yu, D. C., Pambour, K. A., Tamrakar, U. & Bhattarai, B. P., sep. 2017, 7 udg. MDPI AG. 186 s. (Applied Sciences).

Efficient Energy Management for a Grid-Tied Residential Microgrid

Anvari-Moghaddam, A., Guerrero, J. M., Quintero, J. C. V., Monsef, H. & Rahimi-Kian, A., aug. 2017, I: *IET Generation, Transmission & Distribution*. 11, 11, s. 2752 – 2761 10 s.

Special Issue on Advances in Integrated Energy Systems Design, Control and Optimization

Anvari-Moghaddam, A. & Guerrero, J. M., jul. 2017, I: *Applied Sciences*. 7, 7, s. 1-3 3 s.

Message from the IoT4e-2017 Workshop Chairs

Anvari-Moghaddam, A., jun. 2017, *Proceedings of 2017 IEEE International Conference on Internet of Things (iThings) and IEEE Green Computing and Communications (GreenCom) and IEEE Cyber, Physical and Social Computing (CPSCom) and IEEE Smart Data (SmartData)*. IEEE Press, (Proceedings - 2017 IEEE International Conference on Internet of Things, IEEE Green Computing and Communications, IEEE Cyber, Physical and Social Computing, IEEE Smart Data, iThings-GreenCom-CPSCom-SmartData 2017).

Optimal Design and Operation Management of Battery-Based Energy Storage Systems (BESS) in Microgrids

Anvari-Moghaddam, A., Dulout, J., Alonso, C., Jammes, B. & Guerrero, J. M., 2017, *Advancements in Energy Storage Technologies*. Cao, W. & Chen, X.-P. (red.). InTechOpen, s. 145-165 22 s.

Optimal Adaptive Droop Control for Effective Load Sharing in AC Microgrids

Anvari-Moghaddam, A., Shafiee, Q., Quintero, J. C. V. & Guerrero, J. M., okt. 2016, *Proceedings of 42nd Annual Conference of the IEEE Industrial Electronics Society (IECON), 2016*. IEEE Press, s. 3872 - 3877 6 s.

Optimal Planning and Operation Management of a Ship Electrical Power System with Energy Storage System

Anvari-Moghaddam, A., Dragicevic, T., Meng, L., Sun, B. & Guerrero, J. M., okt. 2016, *Proceedings of 42nd Annual Conference of the IEEE Industrial Electronics Society (IECON), 2016*. IEEE Press, s. 2095 - 2099 5 s.

Coordinated Demand Response and Distributed Generation Management in Residential Smart Microgrids

Anvari-Moghaddam, A., Mokhtari, G. & Guerrero, J. M., jul. 2016, *Energy Management of Distributed Generation Systems*. Mihet, D. E. L. (red.). InTechOpen, 32 s.

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

Anvari-Moghaddam, A., Guerrero, J. M., Rahimi-Kian, A. & Mirian, M. S., jun. 2016, *7th International Symposium on Power Electronics for Distributed Generation Systems (PEDG), 2016*. IEEE Press, s. 1-7 7 s. (IEEE International Symposium on Power Electronics for Distributed Generation Systems (PEDG)).

Load Shifting Control and Management of Domestic Microgeneration Systems for Improved Energy Efficiency and Comfort

Anvari-Moghaddam, A., Quintero, J. C. V. & Guerrero, J. M., nov. 2015, *Proceedings of the 2015 IEEE Industrial Electronics Society (IECON)*. IEEE Press, s. 000096 - 000101 6 s.

Optimized Energy Management of a Single-House Residential Micro-Grid With Automated Demand Response

Anvari-Moghaddam, A., Monsef, H., Rahimi-Kian, A., Guerrero, J. M. & Vasquez, J. C., jul. 2015, *PowerTech, 2015 IEEE Eindhoven*. IEEE Press, 6 s.

Cost-Effective and Comfort-Aware Residential Energy Management under Different Pricing Schemes and Weather Conditions

Anvari-Moghaddam, A., Monsef, H. & Rahimi-Kian, A., jan. 2015, I: *Energy and Buildings*. 86, s. 782–793 12 s.

Optimal Smart Home Energy Management Considering Energy Saving and a Comfortable Lifestyle
Anvari-Moghaddam, A., Monsef, H. & Rahimi-Kian, A., jan. 2015, I: I E E E Transactions on Smart Grid. 6, 1, s. 324-332 9 s.

Energy Management for Residential Customers: A Novel Approach
Anvari-Moghaddam, A., Monsef, H. & Rahimi-Kian, A., 2015, *Proceedings of the 23rd Conference and Exhibition on Electricity Distribution (CIRED)*. s. 1-7 7 s.

Optimal Utilization of Microgrids Supplemented with Battery Energy Storage Systems in Grid Support Applications
Anvari-Moghaddam, A., Dragicevic, T., Vasquez, J. C. & Guerrero, J. M., 2015, *Proceedings of the 2015 IEEE First International Conference on DC Microgrids (ICDCM)*. IEEE Press, s. 57 - 61 5 s.

Analytical Design and Power Density Assessment of Slotted Double-Sided AFPM Disc Motors
Anvari-Moghaddam, A. & Lesani, H., 2014, *Proceedings of the 5th Conference on Rotating Equipment in Oil & Power Industries*. s. 1-10 10 s.

Energy Management in a Micro-Grid with High Penetration of Renewable Resources Considering Emission Constraints
Anvari-Moghaddam, A. & Monsef, H., 2014, *Proceedings of the 28th International Power System Conference (PSC)*. s. 1-6 6 s.

Feasibility Study of a Novel Methodology for Solar Radiation Prediction on an Hourly Time Scale: A Case Study in Plymouth, UK
Anvari-Moghaddam, A., Monsef, H., Rahimi-Kian, A. & Nance, H., 2014, I: Journal of Renewable and Sustainable Energy. 6, 3, s. 1-19 19 s.

Global Warming Mitigation Using Smart Micro-Grids
Anvari-Moghaddam, A., sep. 2012, InTechOpen.

Global Warming - Impacts and Future Perspective
Anvari-Moghaddam, A., 2012, *InTech*. s. 119-134 16 s.

Multi-Operation Management of a Typical Micro Grid Using Particle Swarm Optimization: A Comparative Study
Anvari-Moghaddam, A., Seifi, A. & Niknam, T., 2012, I: Renewable & Sustainable Energy Reviews. 16, 2, s. 1268 – 1281 14 s.

A Comprehensive Study on Future Smart Grids: Definitions, Strategies and Recommendations
Anvari-Moghaddam, A. & Seifi, A., 2011, I: Journal of the North Carolina Academy of Science. 127, 1, s. 28-34 8 s.

A Novel Approach for Wind Speed Forecasting Using Image Processing Techniques and 2D-Digital Filtering
Anvari-Moghaddam, A. & Seifi, A., 2011, *Proceedings of the 19th Iranian Conference on Electrical Engineering (ICEE)*. s. 1-6 6 s.

Environmental/Economic Operation Management of a Micro-Grid Using a Multi-Objective Algorithm
Anvari-Moghaddam, A., 2011, *Proceedings of the 26th International Power System Conference (PSC)*. s. 1-10 10 s.

Multi-objective Operation Management of a Renewable Micro Grid with Back-up Micro Turbine/Fuel Cell/Battery Hybrid Power Source
Anvari-Moghaddam, A., Seifi, A., Niknam, T. & Alizadeh Pahlavani, M., 2011, I: Energy. 36, 11, s. 6490-6507 18 s.

Study of Forecasting Renewable Energies in Smart Grids Using Linear predictive filters and Neural Networks
Anvari-Moghaddam, A. & Seifi, A., 2011, I: IET Renewable Power Generation. 5, 6, s. 470 – 480 10 s.

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
Anvari-Moghaddam, A. & Seifi, A., 2010, *Proceedings of the 25th International Power System Conference (PSC)*. s. 1-8 8 s.

Improvement of Power Systems Operation Using Smart Grid Technology
Anvari-Moghaddam, A. & Seifi, A., 2010, *Proceedings of the 1st Iranian Conference on Renewable Energies and Distributed Generation (ICREDG)*. s. 1-9 9 s.

Smart Grid: An Intelligent Way to Empower Energy Choices
Anvari-Moghaddam, A. & Seifi, A., 2010, *Proceedings of the IEEE International Conference and Exhibition (EnergyCon)* . s. 1-6 6 s.

Intelligent Vibration Control of Structures Against Earthquakes Using Hybrid Damper
Anvari-Moghaddam, A. & Shabani Nia, F., aug. 2009, *Proceedings of International Conference on Mechanical and Electrical Technology 2009 (ICMET 2009)*. The American Society of Mechanical Engineers (ASME), s. 1-5 5 s.

Aktiviteter

CIGRE Working Group on Multi-Domain Co-Optimization of Flexibility Resources for High-RES Power Systems (Begivenhed)

Anvari-Moghaddam, A. (Medlem (Indstillet af AAU))
2026 → 2028

Technical Committee Member of the 9th IEEE Flagship Region 8 International Energy Conference (ENERGYCON 2026) (Begivenhed)

Anvari-Moghaddam, A. (Medlem)
2026

TPC Chair of the 2026 International Conference on Electrical Engineering, Intelligent Control and Artificial Intelligence (EEICAI 2026) (Begivenhed)

Anvari-Moghaddam, A. (Forperson)
2026

Expert Panel Member - Portuguese Public Funding Agency for R&D (Ekstern organisation)

Anvari-Moghaddam, A. (Medlem)
1 jul. 2025 → ...

CIGRE Working Group on Planning Distribution Networks under Significant Uncertainties (Begivenhed)

Anvari-Moghaddam, A. (Medlem)
2025 → 2027

Expert Panel Member - French National Research Agency (ANR) (Ekstern organisation)

Anvari-Moghaddam, A. (Forperson)
2025 → ...

Expert Panel Member - Kuwait Foundation for the Advancement of Sciences (KFAS) (Ekstern organisation)

Anvari-Moghaddam, A. (Medlem)
2025 → ...

Expert Panel Member - Ministry of Education (United Arab Emirates) (Ekstern organisation)

Anvari-Moghaddam, A. (Medlem)

2025 → ...

Expert Panel Member - Research Council of Finland (Ekstern organisation)

Anvari-Moghaddam, A. (Medlem)

2025 → ...

Expert Panel Member - Uzbekistan Ministry of Higher Education, Science and Innovations (Ekstern organisation)

Anvari-Moghaddam, A. (Medlem)

2025 → ...

Invited Speaker: "Driving the Energy Transition: A Techno-Economic Outlook"

Anvari-Moghaddam, A. (Oplægsholder)

2025

Keynote Speaker: "Energizing the Transition: Challenges, Choices, and Chances Ahead"

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

Session Chair: "Smart and Low-Carbon Operation of Green Hydrogen-Integrated Multi-Energy Systems"

Anvari-Moghaddam, A. (Arrangør)

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 2025 IEEE Innovative Smart Grid Technologies (ISGT-EUROPE 2025) (Begivenhed)

Anvari-Moghaddam, A. (Medlem)

2025

Technical Committee Member of the 21st International Conference on Smart Technologies (IEEE EUROCON 2025) (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 → ...

Expert Panel Member - UK Engineering and Physical Sciences Research Council (EPSRC) (Ekstern organisation)

Anvari-Moghaddam, A. (Medlem)
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 Forsyningsministeriet (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 → ...

Expert Panel Member - Long term Join EU-AU Research and Innovation Partnership on Sustainable Energy (LEAP-SE) (Ekstern organisation)

Anvari-Moghaddam, A. (Medlem)
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 → ...

Expert Panel Member - CETPartnership Joint Calls (Ekstern organisation)
Anvari-Moghaddam, A. (Medlem)
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 REPRISÉ– PRIN (Begivenhed)

Anvari-Moghaddam, A. (Medlem)
2021 → ...

Expert Evaluation Committee - National Science Centre Poland (Begivenhed)

Anvari-Moghaddam, A. (Medlem)
2021 → ...

Expert Panel Member - European Coordinated Research on Long-term ICT and ICT-based Scientific Challenges (CHIST-ERA) (Ekstern organisation)

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) & 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) & 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) & 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

IEEE 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 Mønstedts Travel Award**

Anvari-Moghaddam, A. (Modtager), 2016

2018 Otto Mønstedts Travel Award

Anvari-Moghaddam, A. (Modtager), 2018

2019 Otto Mønstedts 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

Highly Ranked Scholar-Lifetime
Anvari-Moghaddam, A. (Modtager), 2025

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

SHIELD: Sustainable Heat Integration via Enhanced Digital Landscapes

Ghaemi, S. (PI (principal investigator)), Anvari-Moghaddam, A. (Col (co-investigator)), Mohammad Nia, A. (Projektdeltager) & Pugliese, A. A. (Projektkoordinator)

Villum Fonden: 985.000,00 kr.

01/01/2026 → 30/06/2027

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

Ambient Data-Driven Synthetic Inertia Estimation and Control for Fast-Response Reserve Management in IBR-Dominated Power Systems

Mehrzad, A. (PI (principal investigator)), Su, C.-L. (Supervisor) & Anvari-Moghaddam, A. (Supervisor)

01/09/2024 → 31/08/2027

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

EVOLVE: Economically Viable Integrated Floating Energy Islands Maximizing Social Welfare through LCOE Optimisation Preserving Local Content and Multi-Usage Considerations

Anvari-Moghaddam, A. (PI (principal investigator)), Ghaemi, S. (CoPI) & Pugliese, A. A. (Projektkoordinator)
Horizon Europe
01/08/2025 → 31/07/2028

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. (CoI (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

ClusterSouthH2: Erhvervsfyrtårn Syd: ClusterSouthH2 - 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)), Omid, 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. (CoI (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)), Ghaemi, S. (Projektdeltager), Subramanyam, S. A. (Projektdeltager), 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. (Projektleader), 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

SHIELD: Sustainable Heat Integration via Enhanced Digital Landscapes

Ghaemi, S. (PI (principal investigator)), Anvari-Moghaddam, A. (Col (co-investigator)), Mohammad Nia, A. (Projektdeltager) & Pugliese, A. A. (Projektkoordinator)

Villum Fonden

01/01/2026 → 30/06/2027

SWiM: Sustainable Water-Based Cooling in Megacities

Anvari-Moghaddam, A. (PI (principal investigator)), Ghaemi, S. (Col (co-investigator)), Pugliese, A. A. (Projektkoordinator), Pedersen, T. B. (PI (principal investigator)), Larsen, K. G. (PI (principal investigator)), Wisniewski, R. (PI (principal investigator)), Sorknæs, P. (PI (principal investigator)), Pomianowski, M. Z. (PI (principal investigator)), Ahrendsen, L. B. (Projektdeltager), Schaffer, M. (Projektdeltager) & Maccarini, A. (Projektdeltager)

Poul Due Jensens Fond

01/01/2026 → 31/12/2030