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Davari, P., Zare, F. & Ghosh, A., 2013, *Proceedings of the 15th European Conference on Power Electronics and Applications (EPE 2013).* IEEE Press, 8 p.

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A flexible solid-state pulsed power topology
Davari, P., Zare, F. & Ghosh, A., 2012, *Power Electronics and Motion Control Conference (EPE/PEMC).*

High-Voltage Modular Power Supply Using Parallel and Series Configurations of Flyback Converter for Pulsed Power Applications
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Improving the efficiency of high power piezoelectric transducers for industrial applications
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Ghasemi, N., Zare, F., Davari, P., Weber, P., Langton, C. & Ghosh, A., 2012, *IEEE/ICIEA.*

Designing a new robust on-line secondary path modeling technique for feedforward active noise control systems
Davari, P. & Hassanpour, H., Jun 2009, In: Signal Processing. 89, 6, p. 1195-1204 10 p.

An efficient online secondary path estimation for feedback active noise control systems
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A New Feedback ANC System Approach
Davari, P. & Hassanpour, H., Mar 2009, *Proceedings of 13th International CSI Computer Science.* Springer, Vol. 6. p. 324-331 8 p. (Advances in Computer Science and Engineering).

A self-tuning feedforward active noise control system
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A robust feedforward active noise control system with a variable step-size fxlms algorithm: Designing a new online secondary path modelling method
Davari, P. & Hassanpour, H., Sept 2008, In: International Journal of Engineering-Transactions A: Basics. 21, 3, p. 231-242 12 p.

An optimized online secondary path modeling method for single-channel feedback ANC systems
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A new fast and efficient HMM-based face recognition system using a 7-state HMM along with SVD coefficients
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A new online secondary path modelling method for feedforward active noise control systems
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A variable step-size FxLMS algorithm for feedforward active noise control systems based on a new online secondary path modelling technique
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A New Face Recognition System-Using HMMs Along with SVD Coefficients.
Davari, P. & Miar Naimi, H., 2008, *International Conference on Computer Vision Theory and Applications, VISAPP 2008.* p. 200-205 6 p.

Benefiting White Noise in Developing Feedforward Active Noise Control Systems
Davari, P. & Hassanpour, H., 2008, *Proceedings of Advances in Computer Science and Engineering.* Springer, p. 332-339 8 p.

Press clippings

CLEAN-POWER: NEW GRANT WITHIN POWER ELECTRONICS FROM INDEPENDENT RESEARCH FUND DENMARK (DFF)
Davari, P.
15/10/2021
1 Media contribution

Forskningsprojekt vil fjerne barriere for grøn omstilling af el-nettet
Davari, P.
02/05/2023 → 08/05/2023
3 items of Media coverage

HOW ELECTROMAGNETIC COMPATIBILITY OF POWER ELECTRONIC SYSTEMS CONTRIBUTES TO "CLIMATE ACTION"
Davari, P.
14/09/2020
1 item of Media coverage

Iranian classmates reunited in Queensland lab make medical breakthrough
Davari, P.
27/03/2014
1 item of Media coverage

LOW HARM-projektet sætter fokus på strømforsyninger
Davari, P.
08/06/2020
1 item of Media coverage

Postdoc grants from the Danish Council for Independent Research | Technology and Production Sciences, September 2015
Davari, P.
01/09/2015
1 Media contribution

AAU-talent modtager Danmarks ældste ingeniørpris
Davari, P.
28/03/2022
1 item of Media coverage

Activities

Power Electronics for a Sustainable Society
Davari, P. (Lecturer)
9 May 2022

SUSTAINABLE DIGITAL INFRASTRUCTURE ALLIANCE (SDIA) (External organisation)
Davari, P. (Member)
Apr 2021

IEEE EMC Society (External organisation)
Davari, P. (Chairperson)
Feb 2021

Applied Sciences (Journal)
Davari, P. (Editor)
2021

Power Electronic Devices and Components (Journal)
Davari, P. (Editor)
2021

Power Electronics Ready for New Grid Requirements
Davari, P. (Lecturer)
2 Nov 2020

Circuit World (Journal)
Davari, P. (Editor)
Sept 2020

21st IEEE Workshop on Control and Modeling for Power Electronics, COMPEL 2020
Davari, P. (Organizer)
2020

Magnetism (Journal)
Davari, P. (Editor)
2020

Journal of Power Electronics (Journal)
Davari, P. (Editor)
Feb 2019

Application of Power Electronics (Journal)
Blaabjerg, F. (Peer reviewer), Dragicevic, T. (Peer reviewer) & Davari, P. (Peer reviewer)
2019 → …

Application of Power Electronics (Journal)
Blaabjerg, F. (Peer reviewer), Dragicevic, T. (Peer reviewer) & Davari, P. (Peer reviewer)
2019 → …

Danish Standards (External organisation)
Davari, P. (Member)
2019

International Electrotechnical Commission (IEC) (External organisation)
Davari, P. (Member)
2019

Electronics Letters (Journal)
Davari, P. (Editor)
Jun 2018 → …

29th European Symposium on Reliability of Electron Devices, Failure Physics and Analysis
Davari, P. (Organizer)
2018

Applied Sciences (Journal)
Davari, P. (Editor)
2018

Rectification Harmonics in Motor Drives: Modeling and Control
Davari, P. (Lecturer), Yang, Y. (Lecturer) & Zhou, D. (Lecturer)
29 Oct 2017

EMC Design of Drive Systems [Modeling, Prediction and Mitigation of Grid-Side 0-150 kHz Harmonic Emissions]
Davari, P. (Lecturer)
12 Jun 2017 → 13 Jun 2017

Strategies in Protecting Future Power Grids from Rectifier's Harmonic Emissions (0-150 kHz): Modelling, Prediction and Mitigation
Davari, P. (Lecturer)
3 May 2017

EPE (External organisation)
Davari, P. (Member)
2017

42nd Conference of the Industrial Electronics Society, IECON 2016
Davari, P. (Participant)
25 Oct 2016

International Journal of Power Electronics (Journal)
Davari, P. (Editor)
Jul 2016 → …

Seventh Annual IEEE Energy Conversion Congress & Exposition (ECCE 2015)
Davari, P. (Speaker)
22 Sept 2015 → 30 Sept 2015

17th European Conference on Power Electronics and Applications, EPE-ECCE Europe 2015
Davari, P. (Speaker)
8 Sept 2015 → 10 Sept 2015

HARMONY Symposium 2015
Davari, P. (Speaker)
31 Aug 2015

Leading the Virtual Company – Pasteur Program 2015
Davari, P. (Participant)
27 Jan 2015 → 16 Nov 2015

Internation Power Electronics and Motion Control Conference 2012 (EPE-PEMC 2012)
Davari, P. (Speaker)
4 Sept 2012 → 6 Sept 2012

7th IEEE Conference on Industrial Electronics and Applications
Davari, P. (Speaker)
18 Jul 2012 → 31 Jul 2012

Projects

An Optimized Dual Active Bridge Converter for EV On-board Charger
Liu, B. (PI), Davari, P. (Supervisor) & Blaabjerg, F. (Supervisor)
01/12/2017 → 01/12/2020

BioCat Roslev – Phase 1
Blaabjerg, F. (PI) & Davari, P. (CoI)
EUDP
26/09/2018 → 31/08/2019

BMS-DC: Next Generation BMS Technology for Data Centers
Oshnoei, A. (PI), Davari, P. (CoPI), Teodorescu, R. (CoPI) & Steffensen, B. (Project Coordinator)
Energy Cluster Denmark
01/04/2024 → 31/12/2024

CAPeX: CAPeX - Pionercenter for Accelerating P2X Materials Discovery
Blaabjerg, F. (PI), Jensen, S. H. (CoPI), Wang, H. (Project Participant), Davari, P. (Project Participant), Olguín Godoy, V. (Project Participant), Pedersen, K. (Project Participant), Bøgh, S. (Project Participant), Pérez Millan, A. (Project Participant), Vasudev, A. P. (Project Participant) & Frøstrup, S. (Project Coordinator)
01/05/2023 → 30/04/2036

CLEAN-Power: Compatibility and Low electromagnetic Emission Advancements for Next generation Power electronic systems
Davari, P. (PI), Xue, P. (Project Participant), Tang, Z. (Project Participant) & Frøstrup, S. (Project Coordinator)
Independent Research Fund Denmark
01/07/2022 → 30/06/2026

Deep learning based transformer fault diagnosis method via vibration signal
Li, C. (PI) & Davari, P. (Supervisor)
12/11/2021 → 12/11/2022

Design and Control of Single-Phase WBG Based Grid Connected Inverter in Photovoltaic Applications
Liu, C. (PI), Davari, P. (Supervisor) & Blaabjerg, F. (Supervisor)
01/02/2023 → 31/01/2026

EMC-Power: ElectroMagnetic Compatibility design and modeling in three-phase Power converters
Davari, P. (PI) & Blaabjerg, F. (Project Manager)
Schneider Electric
01/01/2021 → 30/04/2023

Electromagnetic Interference Analysis and Mitigation of Highly Integrated Power Electronics in Motor Drives
Babu, P. (PI), Davari, P. (Supervisor), Blaabjerg, F. (Supervisor) & Peyghami, S. (Supervisor)
01/10/2023 → 30/09/2026

NextGen EMC Lab: EMI/EMC Research Infrastructure for Next Generation Power Electronics
Davari, P. (PI)
The Fabrikant Mads Clausen Foundation, Faculty of Engineering and Science and AAU Energy, Other private funding
01/06/2022 → 31/12/2022

eSMR-MeOH: eSMR-MeOH: Biogas to MeOH by electric reforming
Blaabjerg, F. (PI), Davari, P. (CoI) & Yang, Y. (CoI)
EUDP
01/08/2019 → 31/10/2024

HiRED: High Quality and Robust Energy Conversion Systems for Distributed Network
Davari, P. (PI)
Australian Research Council (ARC)
16/11/2018 → 31/12/2022

Improvement of AC-DC multi-terminal microgrids' protection against short circuit
Zarei, S. F. (PI), Davari, P. (Supervisor) & Blaabjerg, F. (Supervisor)
01/08/2017 → 01/03/2018

Improvement of Transient Power Sharing Performance in Parallel Converter System and Microgrids
Alhasheem, M. A. M. Z. Y. (PI) & Davari, P. (Supervisor)
01/11/2016 → 01/12/2019

Integrated Design for Reliability of Motor Drives in High-Power High-Speed Machines
Ahooye Atashin, S. (PI), Blaabjerg, F. (Supervisor), Peyghami, S. (Supervisor) & Davari, P. (Supervisor)
01/01/2024 → 31/12/2026

HIPO: Integrated High-speed Power Systems for Industry and Mobile Applications
Davari, P. (PI), Peyghami, S. (Project Participant), Blaabjerg, F. (Project Manager) & Frøstrup, S. (Project Coordinator)
European Commission
01/09/2022 → 31/08/2026

Minimization of microgrid voltages harmonic distortion using remaining capacity of power electronic based distributed energy resources
Adineh, B. (PI), Davari, P. (Supervisor) & Blaabjerg, F. (Supervisor)
01/10/2019 → 31/07/2020

MEGA: Modular Efficient power Generation with Advanced fuel cell power converters
Davari, P. (PI), Blaabjerg, F. (Project Participant), Sangwongwanich, A. (Project Participant) & Frøstrup, S. (Project Coordinator)
EUDP
01/04/2023 → 31/03/2027

Multi-Physics of High Power Density Power Electronic Systems
Davari, P. (PI) & Steffensen, B. (Project Coordinator)
DFF-Individuelle postdocstipendier : DFF-1333-00034
01/03/2016 → 31/05/2018

SiC4GRID: Next generation modular sic-based advanced power electronics converters for enhanced renewables integration into the grid
Davari, P. (PI), Blaabjerg, F. (Project Manager) & Frøstrup, S. (Project Coordinator)
European Commission
01/10/2022 → 30/09/2026

NHTD: New Harmonic Reduction Techniques for Motor Drives
Blaabjerg, F. (PI), Davari, P. (Project Participant), Yang, Y. (Project Participant) & Soltani, H. (Project Participant)
The Danish National Advanced Technology Foundation
01/05/2014 → 30/11/2017

Online Condition-Monitoring of Power Semiconductor Devices using Acoustic Time-frequency Spectral Signature
Davari, P. (PI), Iannuzzo, F. (CoI) & Kristensen, O. D. (Project Participant)
Department of Energy Technology
15/08/2017 → 14/04/2018

Optimal Designing and Construction of a New Multilevel Inverter with the Purpose of Improving the Operational Parameters
Orfi Yeganeh, M. S. (PI) & Davari, P. (Supervisor)
01/11/2019 → 01/11/2020

Physics based High Level Digital Twin concept modelling for Power2X systems
Olguín Godoy, V. (PI), Blaabjerg, F. (Supervisor) & Davari, P. (Supervisor)
01/10/2023 → 30/09/2026

LOW HARM : Power Electronics Ready for New Grid Harmonic Requirements
Davari, P. (PI) & Østergaard, J. (Project Coordinator)
Innovationsnetværket Smart Energy (Inno-SE)
01/10/2019 → 30/09/2020

PEMC: Power Electronics Software Tool for ElectroMagnetic Interference Pre-compliance
Davari, P. (PI), Tang, Z. (Project Participant), Xue, P. (Project Participant), Yuan, J. (Project Participant), Wani, U. B. (Project Participant) & Frøstrup, S. (Project Coordinator)
Innovation Fund Denmark
01/01/2022 → 30/06/2023

Probabilistic Assessment and Robustness Analysis of Power Electronic Sub-System for Grid Applications
Gholami-Khesht, H. (PI), Blaabjerg, F. (Supervisor), Davari, P. (Supervisor) & Wang, X. (Supervisor)
01/06/2019 → 31/05/2022

Pulsed Power Supply Reliability
Zhao, Z. (PI), Davari, P. (Supervisor) & Blaabjerg, F. (Supervisor)
15/09/2019 → 15/09/2020

Pyroelectricty for Multiphysics Sensing and Energy Harvesting
Rezaniakolaei, A. (PI), Davari, P. (CoI) & Miltersen, A. H. (Project Coordinator)
Aalborg University
01/05/2021 → 31/10/2021

Reliable Control of Power Electronic based Power Systems
Steinkohl, J. (PI), Wang, X. (Supervisor), Davari, P. (Supervisor) & Blaabjerg, F. (Supervisor)
01/04/2018 → 07/07/2021

REPEPS: REliable Power Electronic based Power System
Blaabjerg, F. (PI), Iannuzzo, F. (CoI), Davari, P. (CoI), Wang, H. (CoI), Wang, X. (CoI) & Yang, Y. (CoI)
01/08/2017 → 01/12/2023

SOLARIS: SOLARIS
Peyghami, S. (PI), Davari, P. (CoI), Hosseini, S. A. (Project Participant), Tahir, M. U. (Project Participant) & Frøstrup, S. (Project Coordinator)
Horizon Europe
01/07/2024 → 30/06/2028

Stable-Drives: Stability enhancement methodologies for slim dc-link Drives
Davari, P. (PI) & Blaabjerg, F. (Project Manager)
01/12/2020 → 15/03/2021

STUDY OF SPECTRAL CHARACTERISTICS OF LOW FREQUENCY CONDUCTED EMI IN POWER ELECTRONIC BASED SYSTEMS
Esfetanaj, N. N. (PI), Wang, H. (Supervisor) & Davari, P. (Supervisor)
01/07/2018 → 10/06/2021

Supra-EMC: Supraharmonics ElectroMagnetic Compatibility strategies in power electronic based power grid
Davari, P. (PI), Blaabjerg, F. (CoPI), Wang, H. (Project Participant) & Frøstrup, S. (Project Coordinator)
Innovation Fund Denmark
01/05/2023 → 31/10/2027

Synchronization Stability of Grid-Connected Converters under Grid Faults
Taul, M. G. (PI), Blaabjerg, F. (Supervisor), Wang, X. (Supervisor) & Davari, P. (Supervisor)
01/09/2017 → 11/08/2020

Topology Derivation and Mission Profile Based Modeling of Bridgeless PFC Converters
Chen, Z. (PI), Davari, P. (Supervisor) & Wang, H. (Supervisor)
01/02/2018 → 19/02/2021

Topology Optimization for High Efficiency Wide Band Gap Ground Power Unit
Blaabjerg, F. (PI), Nielsen, A. B. (Project Participant) & Davari, P. (Project Manager)
Innovation Fund Denmark
01/05/2018 → 30/04/2021

TRANSIT: Transforming Maritime Safety and Sustainability with Advanced Battery Systems
Oshnoei, A. (PI), Davari, P. (CoPI) & Steffensen, B. (Project Coordinator)
Den Danske Maritime Fond
01/10/2025 → 30/09/2027

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