



OTTO VON GUERICKE
UNIVERSITÄT
MAGDEBURG

EIT

FAKULTÄT FÜR
ELEKTROTECHNIK UND
INFORMATIONSTECHNIK

Publikationsbericht 2025

Institut für Elektrische Energiesysteme

1. LEITUNG

Prof. Dr.-Ing. Roberto Leidhold

Prof. Dr.-Ing. Andreas Lindemann (geschäftsführender Leiter)

Prof. Dr.-Ing. habil. Martin Wolter

2. VERÖFFENTLICHUNGEN

BEGUTACHTETE ZEITSCHRIFTENAUFsätze

Hoerner, Stefan; Leidhold, Roberto; Abbaszadeh, Shokoofeh; Ruiz-Hussmann, Karla; Bennecke, Timo; Zhao, Zhao; Joedecke, Paul; Weber, Christian-Thoralf; Delafin, Pierre-Luc; Bonamy, Cyrille; Delannoy, Yves

Experimental optimization environment for developing an intracycle pitch control in cross flow turbines

International marine energy journal - Southampton : European Wave and Tidal Energy Conference c/o Sustainable Energy Research Group, Bd. 8 (2025), Heft 1, S. 37-46

Jayaprakash, Adhithoyan; Hoerner, Stefan; Leidhold, Roberto

Direct-driven blade-embedded pitch actuator for high dynamic pitching applications

Statistische Berichte. 1HH, Öffentliche Wasserversorgung und Abwasserbeseitigung in Hamburg ... / Statistisches Amt für Hamburg und Schleswig-Holstein - Hamburg : Statistisches Amt für Hamburg und Schleswig-Holstein, Bd. 16 (2025) ;

[Konferenz: European Wave and Tidal Energy Conference, Madeira, 7. - 11. September 2025]

Klink, Jacob; Helm, Sebastian; Yang, Wenwen; Deblon, Frank; Bengler, Ralf; Hauer, Ines; Lindemann, Andreas

Instantaneous reserve by battery energy storage systems - a holistic system model to analyze the dynamic power system interactions

Energy reports - Amsterdam [u.a.]: Elsevier, Bd. 13 (2025), S. 3096-3111

[Imp.fact.: 4.7]

Schäfer, Johannes Maria; Leidhold, Roberto; Bannack, Andreas

Gleichmäßige Momentenverteilung in einer dualen dreiphasigen Synchronmaschine zur Bestimmung der wirkenden Last

Automatisierungstechnik - Berlin : De Gruyter, Bd. 73 (2025), Heft 7, S. 541-554

[Imp.fact.: 1.0]

NICHT BEGUTACHTETE ZEITSCHRIFTENAUFsätze

Kösters, Wolf Iring; Tuhtan, Jeffrey A.; Hoerner, Stefan; Kruusmaa, Maarja; Abbaszadeh, Shokoofeh

Sensor probes for fish passage safety - evaluating strike severity metrics and data-driven prediction

HAL-CNRS, 2025, 1 Online-Ressource ;

[HAL ID: hal-05314322]

Lindemann, Andreas

11th ECPE SiC & GaN user forum - potential of wide bandgap semiconductors in power electronic applications

Bodo's power systems - Laboe : A Media . - 2025, Heft 5, S. 80

BEGUTACHTETE BUCHBEITRÄGE

Andres, Christoph; Fritsch, Martin; Wolter, Martin

Induktives Energieerntesystem mit sättigungsgesteuerter Leistungsmaximierung

Dresdener Kreis 2024: 24. Dresdener Kreis Elektroenergieversorgung vom 19. bis 20. März 2024 in Duisburg - Hannover : Institutionelles Repositorium der Leibniz Universität Hannover . - 2025, S. 1-7 ;

[Tagung: 24. Dresdener Kreis Elektroenergieversorgung, Duisburg, 19. bis 20. März 2024]

Barrera, de la Pablo M.; Bossio, José M.; Mazzeletti, Manuel A.; Bossio, Guillermo R.; Leidhold, Roberto

Dynamic eccentricity detection in SynRM using stator winding voltage

2025 XXI Workshop on Information Processing and Control (RPIC) - [Piscataway, NJ]: IEEE, insges. 6 S. ;

[Workshop: 2025 XXI Workshop on Information Processing and Control, RPIC, San Francisco, Argentina, 17-19 September 2025]

Barrera, de la Pablo M.; Hieke, Sebastian; Bossio, José M.; Mazzeletti, Manuel A.; Bossio, Guillermo R.; Leidhold, Roberto

Static eccentricity detection in SynRM using stator windings flux

2025 XXI Workshop on Information Processing and Control (RPIC) - [Piscataway, NJ]: IEEE, insges. 6 S. ;

[Workshop: 2025 XXI Workshop on Information Processing and Control, RPIC, San Francisco, Argentina, 17-19 September 2025]

Duniev, Oleksii; Yehorov, Andrii; Masliennikov, Andrii; Shylkova, Larysa; Stamann, Mario; Gouws, Rupert; Dobzhanskyi, Oleksandr

Investigation of novel designs of linear generators based on transverse-flux machines for wave energy conversion systems

Proceedings of the 16th European Wave and Tidal Energy Conference - Southampton, UK : Energy and Climate Change Division ; Carvalho Gato, Luís Manuel . - 2025 ;

[Konferenz: 16th European Wave and Tidal Energy Conference, Funchal, 7-11 September 2025]

Kempiak, Carsten; Lindemann, Andreas

Investigation of the relationship between threshold voltage shift and power cycling lifetime of SiC MOSFETs

2025 17th International Seminar on Power Semiconductors (ISPS) - IEEE ; Lutz, J., S. 123-130 ;

[Seminar: 17th International Seminar on Power Semiconductors (ISPS), Prague, 27 - 29 August 2025]

Li, Tianyu; Chen, Minjia; Lindemann, Andreas; Mallwitz, Regine

Characterization of a high-bandwidth SMD-Based current shunt for GaN HEMT

ResearchGATE - Cambridge, Mass. : ResearchGATE Corp. . - 2025 ;

[Kongress: ECCE Europe 2025, Energy Conversion & EXPO, Birmingham, UK, 31 Aug. - 4 Sept. 2025]

Li, Tianyu; Lindemann, Andreas

Extraction of dynamic threshold voltage and on-state resistance of GaN HEMT in hard-switching operation

International Exhibition and Conference for Power Electronics, Intelligent Motion, Renewable Energy and Energy Management, 6 - 8 May 2025, Nuremberg - Berlin : VDE VERLAG - 2025, Art. PP098, S. 1597-1604

Sauer, Christoph; Rinne, Christian; Wolter, Martin

Development of an instantaneous reserve market and storage park based on inertia safety levels

2024 IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT-Europe) - [Piscataway, NJ]: IEEE . - 2025, insges. 5 S. ;

[Konferenz: 2024 IEEE PES Innovative Smart Grid Technologies Europe, ISGT EUROPE, Dubrovnik, Croatia, 14-17 October 2024]

Teshale, Adisu; Burkhardt, Yves; Leidhold, Roberto

Analysis of common-mode current in three-phase 4-wire PM synchronous motor with an improved neutral filter topology

Energy Conversion Congress & Expo Europe 2025 (ECCE Europe) - [Piscataway, NJ]: IEEE, insges. 6 S. ;

[Kongress: 2025 Energy Conversion Congress & Expo Europe, ECCE Europe, Birmingham, United Kingdom, 01-04 September 2025]

Wolter, Martin; Meshkov, Denys; Mischenko, Mykyta

Studying the energy systems state in modern megacities provided total transition to electric vehicles
Decarbonization of Transport Energy Installations in the Context of Sustainable Development Strategies , 1st ed. 2025. - Cham : Springer Nature Switzerland ; Marchenko, Andrii, S. 77-94 - (Studies in systems, decision and control\$volume 635)

NICHT BEGUTACHTETE BUCHBEITRÄGE

Schallschmidt, Thomas; Stamann, Mario; Dolg, Christoph; Leidhold, Roberto

Development of an ultra low speed direct driven electrical machine
Elektromechanische Antriebssysteme 2025 - Berlin : VDE VERLAG GMBH, S. 121-127 ;
[Tagung: 10. Fachtagung (VDE OVE), München, 8. und 9. Oktober 2025]

Stamann, Mario; Dolgirev, Juri; Hieke, Sebastian; Leidhold, Roberto

Simple production of micro-drives using plastic bonded rotor magnets and concentrated stator windings
IKMT 2025 - Berlin : VDE VERLAG GMBH, S. 80-86 ;
[Tagung: IKMT 2025, 14. GMM/ETG-Fachtagung, Stuttgart, 18.-19. September 2025]

DISSERTATIONEN

Rodrigues Lautert, Renata; Wolter, Martin [AkademischeR BetreuerIn]

Grid and system-oriented use of flexibility provided by energy communities
Barleben: docupoint GmbH, Dissertation Otto-von-Guericke-Universität Magdeburg, Fakultät für Elektrotechnik und Informationstechnik 2025, 1 Online-Ressource (XVI, 110 Seiten, 7,99 MB) - (Res electricae Magdeburgenses; Band 103) ;
[Literaturverzeichnis: Seite 99-106; Redaktionsschluss: März 2025]