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E|PTS TABLE TOP EXHIBITION

The E|PTS 2024 event will feature a comprehensive table-top exhibition, providing companies, research institutes, and other organizations with the chance to engage with their specific target audience. Participants can expect in-depth technical discussions during the exhibition. The organization of the exhibition is handled by the Institute FAPS. For additional inquiries concerning the E|PTS table-top exhibition, please visit the website www.e-pts.de.

VENUE AND ACCOMODATION

E|PTS 2024 is scheduled to be held at the Congress Centrum Bamberg, Germany. To cater to your accommodation needs, we have made arrangements with various hotels located throughout the city. The event takes place at the Konzert- und Kongresshalle Bamberg, Mußstraße 1, 96047 Bamberg.

CONFERENCE FEE

Registration	Until 8 Mar 2024	After 8 Mar 2024
Standard Fee	€ 995,-	€ 1195,-
Reduced Fee*	€ 695,-	€ 795,-
One Day Fee	€ 795,-	€ 795,-

* Reduced fee for international program committee members, speakers (including one paper), participating co-authors and university members. Fees will be charged for additional paper.

CONTACT

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IN COOPERATION WITH

E|PTS
Production Technologies and Systems for E-Mobility

SUBMIT YOUR CONTRIBUTION UNTIL

23.02.2024

Industry and science experts are encouraged to submit their contributions for presentation on the specified topics or any other subjects relevant to the conference's overarching theme. Abstracts, approximately 300 words in length, should be submitted in English to the conference office. These abstracts must include essential information and significant facts. Online submission is required and should contain the following details:

- Title, subject and topic of the contribution
- 3-6 keywords
- Full name, organization or company, postal and email addresses of all authors

Before accepting full papers (Scientific Contributions) or presentations (Industrial Contributions), all submitted abstracts will undergo evaluation. Scientific full papers will undergo a rigorous review process before achieving final acceptance. It is intended that the E|PTS proceedings, which will include all scientifically accepted papers, will be submitted for inclusion into IEEE Xplore subject to meeting IEEE Xplore's scope and quality requirements.

CONFERENCE CHAIRMAN

Prof. Franke J., Friedrich-Alexander-Universität Erlangen-Nürnberg

ABOUT E|PTS

The future megatrends of increasing power consumption, CO_2 reduction, urbanization, and mobility, along with automation and digitalization, highlight the critical role of efficient production technologies and systems. The electrification of powertrains in various mobility sectors is essential, considering the challenges posed by the substitution of conventional propulsion technologies. In addition to advancing ideas for new propulsion technologies, organizing manufacturing processes and systems is of paramount importance. The **International Conference on Production Technologies and Systems for E-Mobility** provides an exceptional platform for developers, researchers, and potential users to share their experiences. The conference focuses on presenting highly innovative products, manufacturing processes, and strategies from diverse industries. Furthermore, an accompanying industrial exhibition, complementary poster presentation, and an engaging social program will enhance the overall experience. The conference showcases cutting-edge e-mobility technologies.

INDUSTRIAL CONTRIBUTION

Industry experts are specifically encouraged to participate in the application-oriented industrial track by presenting their issues without the requirement of preparing a full paper. Once the abstract is accepted, the presentation slides will be included in the accompanying industrial transcript. This application-oriented contribution provides an excellent platform for both exhibitors and non-exhibitors to showcase their latest and most innovative technologies.

SCIENTIFIC CONTRIBUTION

Once your abstract is accepted, your full paper (4-8 pages) will undergo a thorough review by the program committee. The E|PTS proceedings, which will encompass all scientifically accepted papers, are planned for publication by IEEE and indexing on Scopus and Google Scholar. Each scientific paper will have two opportunities for discussion. For further details, please visit our website at www.e-pts.de.

IMPORTANT DATES

Submission of abstracts:	2024-02-23
Notification of acceptance of abstracts:	2024-03-01
Early registration:	2024-03-08
Submission of full papers:	2024-04-05
Review of full papers:	2024-04-26
Submission of final full papers:	2024-05-10

TOPICS

Power Electronics Production

- Automated processes and machinery for the manufacturing of power electronics
- New joining technologies, e.g. silver sintering, diffusion soldering, transient liquid phase soldering (TLPS), thick wire bonding, etc.
- New material systems, e.g. Cu instead of Al; ceramics
- New durability tests, e.g. active power cycling, H3TRB, HTGB/HTGSP
- Application of mechatronic devices
- Advanced thermal management techniques for power electronics

Power Supply & Transfer

- Assembly of stationary charging systems
- Manufacturing of inductive charging systems or dynamic charging systems
- Manufacturing of fuel cells and hydrogen storage systems
- Battery and fuel cell production
- Handling systems for stack components with highest precision and dynamics
- High quality forming and joining technologies for production of hydrogen storage systems

Battery Production

- Manufacturing of Li-ion batteries and post-lithium material systems
- New electrolyte systems
- New electrode materials
- Integration instead of modularization techniques
- Automation and robotics in battery cell manufacturing
- Design for remanufacturing and recycling

Electric Drives Production

- Innovative electric machine design for EVs
- New materials and semi-finished products
- Manufacturing technologies
- Electric drives production systems
- Electric drives specific testing

Lifecycle Assessment

- Lifecycle Assessment in production environments and link to absolute sustainability
- Influencing factors on energy consumption of electric vehicles in all phases of the product lifecycle
- Optimization potentials in manufacturing processes
- Integrating the carbon footprint into economic evaluations
- End-of-life management and recycling of electric vehicle components
- Environmental impact of rare-earth elements used in electric vehicles
- Sustainable sourcing of raw materials for EV components

Production Systems

- Manufacturing of electrified aviation
- Manufacturing of ground-based E-Mobility
- Manufacturing of electrified nautical mobility
- Smart factories and Industry 4.0 in electrified mobility production
- Industry 4.0 applications