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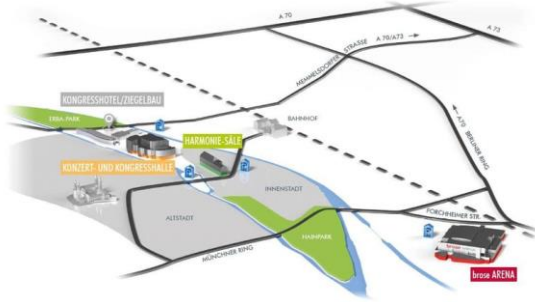
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Konzert- und Kongresshalle Bamberg
Mußstraße 1
96047 Bamberg



E|PTS TABLE TOP EXHIBITION

E|PTS 2024 will be completed by a comprehensive table top exhibition. Companies, research institutes and other organizations will be offered the opportunity to meet your target audience. Detailed technical discussions will be guaranteed. The exhibition is organized by FAPS ProNet e.V. For any further questions regarding E|PTS table top exhibition please contact Benedikt Scheffler (benedikt.scheffler@faps.fau.de) or visit the website www.e-pts.de.

VENUE AND ACCOMODATION

The E|PTS 2024 will take place at the Congress Centrum Bamberg, Germany. For your accommodation, several hotels are booked all over the city.

CONFERENCE FEE

Registration	Until 22 Nov 2023		After 22 Nov 2023	
	presence	online	presence	online
Standard Fee	€ 995,-	€ 895,-	€ 1195,-	€ 995,-
Reduced Fee*	€ 695,-	€ 695,-	€ 795,-	€ 795,-
One Day Fee	€ 795,-	€ 595,-	€ 795,-	€ 695,-

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

CONTACT

E|PTS Office
Institute FAPS, attn. Benedikt Scheffler
Fuerther Str. 246 b, D-90429 Nuremberg
Mail: benedikt.scheffler@faps.fau.de

IN COOPERATION WITH



Friedrich-Alexander-Universität
Erlangen-Nürnberg



E|PTS

Production Technologies
and Systems for E-Mobility



SUBMIT YOUR CONTRIBUTION

Experts of industry and science are invited to present a contribution on the topics listed or on other topics that correspond to the general subject of the conference. Abstracts of about 300 words containing significant facts should be submitted online in English to the conference office containing the following information:

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

Abstracts will be examined before a full paper (Scientific Contribution) or presentation (Industrial Contribution) are accepted. All scientific full papers have to pass an intensive reviewing process before final acceptance. The proceedings of the E|PTS containing all final accepted scientific papers is intended to be published by IEEE.

CONFERENCE CHAIRMAN

Prof. Franke J., University of Erlangen-Nuremberg (DE)

ABOUT E|PTS

Increasing power consumption, CO₂ reduction, growing urbanization and mobility combined with progressing automation and digitalization – all of these future megatrends are impossible without efficient production technologies and systems. The electrification of powertrains in all kinds of mobility is considered crucial, as the whole mobility sector is facing difficulties resulting from the substitution of conventional propulsion technologies. Besides advancing ideas on the design of new propulsion technologies, the organization of the manufacturing processes and systems is of utmost importance. The **CIRP sponsored Conference on Production Technologies and Systems for E-Mobility** offers an outstanding platform for the exchange of experiences from developers, researchers and potential users. The focus of the conference is set on the presentation of highly innovative products from various industries as well as manufacturing processes and strategies. Additionally, there will be an accompanying industrial exhibition and complementary poster presentation and an associated social program.

INDUSTRIAL CONTRIBUTION

In particular, industry experts are invited to present an issue within an application-oriented industrial track without the necessity of preparing a full paper. After the final acceptance of your abstract, the presentation/slides will be published in the accompanying industrial transcript. The application-oriented contribution is an ideal platform for exhibitors and non-exhibitors to present their top recent technologies.

SCIENTIFIC CONTRIBUTION

After the acceptance of your abstract, your full paper (4-8 pages) will be reviewed by the program committee. The proceedings of the E|PTS containing all final accepted scientific papers is intended to be published by IEEE and indexed by Scopus and Google Scholar. Two discussion opportunities are provided for each scientific paper. Please find more information on our website www.e-pts.de.

IMPORTANT DATES

Submission of abstracts:	2023-09-15
Notification of acceptance of abstracts:	2023-10-27
Early registration:	2023-11-24
Submission of full papers:	2023-12-15
Review of full papers:	2024-02-23
Submission of final full papers:	2024-03-15

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

Production Technologies for 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
- Design for remanufacturing and recycling

Electric Drives Production

- Manufacturing of electric drives
- Alternative motor technologies for EVs
- Higher system integration
- Alternative winding technologies
- New joining technologies

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

Production Systems

- Manufacturing of electrified aviation
- Manufacturing of ground-based E-Mobility
- Manufacturing of electrified nautical mobility

