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E|DPC TABLE TOP EXHIBITION

E|DPC 2018 will be completed by a comprehensive Table Top exhibition. Companies, research institutes and other organizations will be offered the opportunity to present their products and services to all participants. It is a perfect opportunity to meet your target audience. Detailed technical discussions will be guaranteed. The exhibition is organized by SV Veranstaltungen GmbH. For any further questions regarding E|DPC Table Top Exhibition please contact Teresa Knoeferl, Phone: +49 8191 125 573, E-Mail: teresa.knoeferl@sv-veranstaltungen.de or visit the website www.edpc.eu.

VENUE AND ACCOMMODATION

The E|DPC 2018 will take place at the

Mercure Schweinfurt Maininsel

Maininsel 10 – 12

97424 Schweinfurt

Phone: +49 9721 7306-0

Please make your reservation directly with the hotel, quoting E|DPC.

CONFERENCE FEE

Registration	Until June 30, 2018	After June 30, 2018
Standard Fee	€ 880,-	€ 1080,-
Reduced Fee*	€ 590,-	€ 690,-
One Day Fee	€ 690,-	

*Reduced Fee for speakers, program committee members, university members and authors.
All Prices without VAT.

CONTACT PUBLICATIONS:

FAPS Institute

c/o Johannes v. Lindenfels

Fürther Str. 246b

D - 90429 Nuremberg

Phone: + 49 911 5302 90 69

Mail: service@edpc.eu

www.edpc.eu

CONTACT ORGANISATION:

Phone: +49 8191 125 229

Fax.: +49 8191 125 97 229

E-Mail: edpc@sv-veranstaltungen.de

ORGANIZED BY

 **Veranstaltungen**

Süddeutscher Verlag
Veranstaltungen GmbH
Justus-von-Liebig-Str. 1
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2018

8th International Electric-Drives Production Conference

December 4th–5th, 2018
Schweinfurt, Germany

CALL FOR PAPERS

SUBMIT YOUR CONTRIBUTION UNTIL MAY 31ST, 2018

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) can be uploaded. All scientific full papers have to pass an intensive reviewing process before final acceptance.

CONFERENCE CHAIRMAN

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

ABOUT E|DPC

Increasing power consumption, CO₂ and NO_x reduction, growing mobility and progressing automation – all of these future megatrends are impossible without powerful electric drives. The electrification of the automobile powertrain system is considered crucial, as the whole sector is facing difficulties resulting from the substitution of the complete conventional powertrain. Besides advancing ideas on the design of powerful electric drives, the organization of the manufacturing processes and systems is of utmost importance. The International Electric Drives Production Conference 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, poster presentation, technical tours and an associated program.

APPLICATION-ORIENTED 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. An 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|DPC containing all final accepted scientific papers are published and indexed by Scopus. Please find more information on our website www.edpc.eu

IMPORTANT DATES

Submission of abstracts:	2018 – 05 – 31
Notification of acceptance of abstracts:	2018 – 06 – 15
Early registration:	2018 – 06 – 30
Submission of full papers:	2018 – 07 – 31
Review of full papers:	2018 – 09 – 14
Submission of final full papers:	2018 – 10 – 15

TOPICS

INNOVATIVE ELECTRIC MACHINE DESIGN

- Advanced electric motor topologies
- Noise Vibration Harshness (NVH) considerations
- Effective cooling techniques
- Super conductivity
- Changes in production processes

POWER ELECTRONICS AND CONTROL METHODS

- Sensors and sensorless control technologies
- New testing methods and quality assurance
- Power electronics production processes
- Mechatronic integration approaches

NEW MATERIALS AND SEMI-FINISHED PRODUCTS

- High performance electrical steel types
- Cables, fishbones, enameled and litz wires
- Advanced insulation materials
- Lightweight materials for electric drives

MAGNET MATERIALS AND PROCESSING

- Raw material and alloy processing
- Processing of hard magnetic materials
- Magnetization process and equipment
- Optimization of process chain

MANUFACTURING TECHNOLOGIES FOR SOFT MAGNETIC MATERIALS

- Manufacturing of soft magnetic composites
- New sheet metal and coating processes
- Joining technologies
- Productive cutting technologies

WINDING TECHNOLOGIES

- New kinematics and advanced tools
- Optimization of filling factor
- New wire geometries and materials
- Winding simulation and validation
- Application of hairpin windings

INTERCONNECTING TECHNOLOGIES

- Contacting processes
- Skinning processes
- Inspection of electrical contacts

INSULATION TECHNOLOGIES

- Insulation materials
- Heat transfer solutions
- Application processes
- Qualification and testig

ASSEMBLY AND HANDLING TECHNOLOGIES

- Innovative magnet assembly methods
- New balancing methods
- Final assembly and test

ELECTRIC DRIVE PRODUCTION SYSTEMS

- New automated production lines
- Quality management methods
- Global value chains
- Lean production implementation
- Computer-Integrated manufacturing

PRODUCTION OF ALTERNATIVE DRIVE TECHNOLOGIES

- Piezo electric actuators
- Dielectric elastomer actuators
- Magnetostrictive actuators

INDUSTRY 4.0 APPLICATIONS IN ELECTRIC DRIVES PRODUCTION

- Cloud-based process control
- Knowledge-based engineering
- Simulation and digital twin
- Data analytics and machine learning
- Interfaces for machine linking

SUSTAINABILITY IN PRODUCT LIFECYCLE

- Recycling and disassembly of electric motors
- Raw material availability and preservation
- Energy-efficient production processes

NEW APPLICATIONS FOR ELECTRIC DRIVES

- Transportation and material handling
- Mechanical and plant engineering
- Household appliances
- Energy generation

ELECTROMOBILITY

- High volume production
- Specific automotive requirements
- Strategies for transition of added volume
- Integrated drive concepts
- Powertrain components of EV

ELECTRIC DRIVE SPECIFIC TESTING

- Stator and rotor specific testing technology
- Application of inline testing strategies
- Process control

CURRENT TRENDS AND THEORIES OF ELECTRIC DRIVES

- Societal aspects of electric drive technologies
- Additive manufacturing
- Dealing with changes in value chains
- Power and signal interconnection

ENERGY TRANSFER FOR ELECTRIC VEHICLES (E|TEV)

- High efficient power transfer technologies
- Production and assembly technologies
- System integration
- Applications and markets