Topics of the symposium

1. **Electrical machines**: Failure detection and location / vibration, audible noise, electrical or mechanical variables, sensors, insulation failures, electrical, mechanical and thermal models

2. **Power electronics**: Diagnostics / input-output monitoring, thermal and/or electrical measurements on power semi-conductors, control supervision, signal processing

3. **Adjustable speed drives**: Monitoring and diagnostics for ASDs using electrical machines, power converters and control systems, computer-based signal processing and data analysis

4. **Methods and tools for diagnostic and prognostic**: neural networks, fuzzy logic, AI, genetic algorithms, expert systems, identification, signal processing techniques, observers…

5. **Materials for electrical machines**: Insulating and magnetic materials, RUL models, ageing tests

6. **Tests for predictive maintenance**: Partial discharge analysis and tests, new instruments for diagnostics

7. **Fuel Cells and Electrolyzers**: models for diagnostic or ageing, tests

8. **Power Systems and Power Networks, Embedded Systems, Emergency Applications**
Committees

- **General chair:** Pascal Maussion (France)
- **Honorary co-chairs:** Giuseppe Buja (Italy), Gérard-André Capolino (France)
- **Technical program committee:** Jose A. Antonino-Daviu (Spain), Sang Bin Lee (Korea), Hubert Razik (France), Antoine Picot (France)

Deadlines

- Special session and tutorial proposals: 2018, December 16th
- Provisional full paper and tutorials proposals: **2019, January, 27th**
- Acceptance notification: 2019, April 21st
- Final submissions: 2019, June 2nd

Toulouse is…

- One of the oldest universities in Europe (1229)
- 2° universitary city (after Paris) / nb of students and nb schools of engineers and universities
Toulouse, often called “La ville rose”

Charms of the Region: famous gastronomy of the Southwest, excellent wines...
In the heart of an amazing region
In the heart of an amazing region
Excellent wines
Local beers
Excellent food
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Deadline for provisional full papers and tutorials: 2019, January, 27th