



# First Call for Papers

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France  
**Jean-François Santucci**,  
France

Sponsored by: IEEE Region 8, French Ministry of Higher Education & Research, CNRS – ST21  
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## “New technologies for sustainable development”

*Technical Program Co-Chairs*  
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**MELECON'2008** is a major international forum presenting design methodologies, techniques and experimental results in emerging electro-technologies related to **sustainable development**. It is one of the flagship conferences of the IEEE Region 8 with participants from all over the world. It is expected to bring together researchers and practitioners from different fields such as Control Systems, Information Systems, Mechatronics Systems, Nano- & Micro-Electronics Systems, Power Electrical Systems and Signal & Image Processing. It will include plenary sessions, regular technical sessions, special sessions and tutorials. Prospective authors are invited to submit their manuscripts reporting original work as well as proposals for special sessions (6 papers) and tutorials in the mentioned areas. For this edition, topics of interest include but are not limited to:

*International Scientific  
Committee*

**Kamal Al Haddad**, Canada  
**Jan Biemond**, Netherlands  
**Silverio Bolognani**, Italy  
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**Uwe Bratzler**, Switzerland  
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**Antonio Gomez Exposito**,  
Spain  
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**Karel Jezernik**, Slovenia  
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**Vladimir Lazarov**, Bulgaria  
**Emil Levi**, UK  
**Peter Magyar**, Germany  
**Bruno Meyer**, France  
**Josef Modelski**, Poland  
**Maciej Ogorzalek**, Poland  
**Zdzislaw Papir**, Poland  
**George Paunovic**, Serbia  
**Manuel Perez Donsion**, Spain  
**Francis Rousseaux**, France  
**Francisco Sandoval**, Spain  
**Tadeusz Sobczyk**, Poland

**Control Systems (TPC-1)**: Estimation and identification techniques – Advanced control techniques – Intelligent control – Vehicular technology control – Control in medicine & biology – Aerospace control techniques – Eco-systems control – Specific control hardware & software – Remote control techniques. *Chair: Pierre Melchior & Blas M. Vinagre.*

**Information & Communication Systems (TPC-2)**: Factory automation – Distributed collaborative systems – Products & manufacturing systems – Flexible manufacturing systems – Human-machine interfaces – Industrial communication systems – Multi-agent systems – Discrete event systems. *Chair: Dominique Federici.*

**Mechatronics Systems (TPC-3)**: Mechatronics systems – Intelligent systems - Agent-based control - Intelligent actuators - Industrial, service and biomedical robots - Autonomous mobile robots - Humanoid robots – Multi-robot teams - Human-robot interface - Vision-based robots. *Chair: Bruno Marhic.*

**Nano- & Micro-Electronics Systems (TPC-4)**: Micro- & nano-technology – Electronic instrumentation – Micro-electro-mechanical systems (MEMS) – Systems on Chip (SoC) – RF systems integration – Integrated optics and related technologies. *Co-Chairs: Richard Grisel & Jean-Marc Duchamp.*

**Power Electrical Systems (TPC-5)**: Power system security – Distributed energy resources – Electrical load management and control - High efficiency electrical machines and drives – Renewable electricity production - Cogeneration and Hybrid Systems – Testing techniques for energy saving systems – “Green” power components – High efficiency power converters - Power electronics for power management - UPS, power filters and VAR compensators. *Co-Chairs: Franck Betin, Andrea Cavagnino & Gianfranco Chicco.*

**Signal & Image Processing (TPC-6)**: Digital signal processing techniques – Speech processing – Image processing– Remote sensing – Computer vision – Virtual reality systems – Multimedia applications. *Chairs: Eric Brassart.*

**Submission of Papers**: The working language of the conference is English. Submit the full paper using the following layout: **full paper** limited to **6 pages**, including paper title, authors and affiliations, figures and references (maximum size 2MB). Authors are requested to prepare the manuscripts in the IEEE two-column format (**template available in the website**), using PDF with embedded fonts (i.e., "Press" settings in the Acrobat Distiller and please avoid exotic characters). Only manuscripts in PDF (\*.pdf) format will be accepted. For information see the web-site: <http://www.melecon08.iut-amiens.fr>.

*Local Organizing Committee*  
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**Humberto Henao**, France  
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**Christine Nora**, France

**Author Schedule:** **Deadline for Submission of Full Papers** **January 31, 2008**  
**Notification of Acceptance** **February 29, 2008**  
**Deadline for Submission of Final Manuscripts** **March 31, 2008**