

September, 22-26 2009, Palma de Mallorca, Spain

Call for Papers / Invitation to Special Session SS10

FRACTIONAL SYSTEMS AND CONTROL

Special Session co-Chairs

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Sponsored by: Technical University of Catalonia (UPC), University of Balearic Islands (UIB), Spain and IEEE Industrial Electronics Society

In the last decades, fractional differentiation (fractional calculus, fractional order derivative) has played a very important role in various fields such as mechanics, electricity, chemistry, biology, economics and notably control theory, robotics and image and signal processing. In this last field, some important considerations such as modeling, curve fitting, filtering, pattern recognition, edge detection, system identification, stability, controllability, observability and robustness are now linked to long-range dependence phenomena. Fractional differentiation, fractional order derivative and its applications in automatic control and signal and image processing is thus now an important issue for the International scientific community, and for this reason a Special Session on "Fractional Systems and Control" is open to all researchers that want to submit their works.

Contributions to the session may address: representation tools, analysis tools, synthesis tools, simulation tools, modeling, system identification, observation, control, vibration insulation, filtering, pattern recognition, edge detection; and the concerned disciplines are, but not limited to:

- Electrical engineering
- Electronics, telecommunications
- Electromagnetism
- Electrochemistry
- Thermal engineering
- Mechanics, mechatronics
- Automatic control
- Robotics
- Signal processing
- Factory Automation
- Production/Manufacturing

SUBMISSION OF PAPERS

Papers are to be submitted electronically. For further details, please consult the conference web pages.

AUTHOR'S SCHEDULE

Deadline for submission of papers:	May 10, 2009
Notification of papers acceptance:	June 8, 2009
Final manuscripts due:	July 5, 2009

SESSION ORGANIZERS

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