

IEEE International Symposium on Industrial Electronics ISIE'17

19-21 June 2017, Edinburgh, Scotland

Special Session on

“Signal and Power Automation Design for Communication Systems”

Organized by

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Call for Papers

Theme: The robust design of wired analog-mixed-signal (AMS) and radio-frequency (RF) wireless communication front-ends requires the systematic evaluation of the signal and power integrity (SPI) quality as an integral part of the system design process. Therefore, computational-efficient deterministic and statistical modelling methodologies have to cope with the real-time communication system challenges and the manufacturing variability to boost simulation throughput. This special session promotes the exchange on the latest research and developments on the advanced SPI design automation and modelling algorithms that address signalling/modulation techniques built-in the transceivers architectures for high-speed and ultra-low-power analog and digital processing of the communication system.

Topics of interest include, but are not limited to:

- Advanced RF transceivers architecture.
- Electro-optical AMS high-speed link design and modelling.
- Nonlinear dynamic devices/systems modelling, identifications, and control.
- Variability modelling and analysis.
- Simulation tools for signal and power integrity.
- Ultra-low-power design techniques.
- Power management design methodologies.
- Reduced order models and optimization.

Submission procedure, deadlines, and author instructions:

A manuscript submitted to the Special Session of ISIE 2017 must be in the IEEE double format with single space 10p fonts and figures included in the text, so the length of the manuscript of 8 pages long in PDF format can be evaluated. For your convenience you may download the WORD template.doc from the conference website: <http://www.ISIE2017.org>

Deadlines:

- Reception of full paper: December 15th 2016
- Paper acceptance notification: March 1st 2017
- Camera ready paper reception: April 10th 2017