



## Analogue/Mixed-Signal Innovation Network " Digitally Assisted Analogue"

Thursday 22nd October 2009

Xilinx, CityWest Campus, Dublin

NMI network events provide opportunities for professionals to meet, exchange views and debate the issues.

This event has been arranged in collaboration with MIDAS Ireland.

### Event Theme

Analogue circuits can, in many cases, be supplemented and enhanced by digital techniques. This can be particularly important where analogue scaling is no longer effective - otherwise leading to poorer characteristics and reduced performance. In a world of large digital devices containing key analogue functions, it is important that performance of the 'small' analogue is maintained and 'digital assistance' can be one way of achieving this.

This event will consider the benefits and pitfalls of various approaches. As the first NMI event to be held in conjunction with MIDAS, there will be a chance to network and opportunities to explore collaboration between companies in Ireland and the UK.

In addition to the presentations, as with all NMI network events, there will be the opportunity to meet and network with attendees from a variety of organisations ranging from fabless semiconductor providers, IDMs, tool suppliers, foundries, design/software service providers, IP providers, training, research and academic institutions.

### Agenda

#### 09:00 Registration

*Refreshments, Networking & Sponsor Table-Tops*

*Digitally Enhancing Dynamic Linearity in High-Resolution A/D Converters*

*Joao Goes, Silicon & Software Systems*

#### 9:45

*Welcome & Introduction*

#### 12:45 Buffet Lunch & Networking

*Low Power Wireless Transceiver Architectures with Digitally assisted RF*

*Philip Quinlan/Hyman Shanan, Analog Devices*

#### 14:00

*Beyond Digitally Assisted Analog*

*TSMC, Wim-Jan Brummelman*

*High performance LDMOS RF & HV technology for a 0.15µm foundry design kit*

*Rainer Kaesmaier, LFoundry*

*Advanced Digital Control of High Efficiency Analogue Switch-Mode Power Supplies*

*Simon Effler, University of Limerick*

#### Break

*Calibration of Current Steering D/A Converters*

*Georgi Radulov/Patrick Quinn, Xilinx*

*Verification Techniques for Advanced Mixed-Signal Design*

*Steve Morris, Innovision Research & Technology*

#### 16:00 Close

*Continued Networking*

*For further details, please contact Robin Kennedy  
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