



**Keynote speaker:**

**Marius Neag**

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Marius Neag is an Associate Professor at the Technical University of Cluj-Napoca, Faculty of Electronics, Telecommunications and Information Technology, where he lectures on the design of RF, Analog and Mixed-Signal ICs.

Marius Neag received the Electronic Engineer Diploma from the Technical University of Cluj-Napoca, Romania, in 1991 and was awarded the PhD degree in electronics by the University of Limerick, Ireland, in 1999. He is the author and co-author of over 100 scientific publications, 2 books and 2 international patents.

After completing his PhD studies he has worked several years in Ireland and the US as an IC designer and technical lead for the development of products ranging from fully integrated radio receivers for DAB and SoC transceivers for GSM and digital TV, to transceivers for wired communications and front-ends for data storage and sensors.

On his return to the Technical University of Cluj-Napoca he has contributed to the founding of the DERFAIC - "Digitally-Enhanced RF & Analog Integrated Circuits" - research group, <https://icdesign.utcluj.ro/>. His main activities there are related to the systematic design of RF, Analog and Mixed-Signal Integrated Circuits such as frequency synthesizers, analog front-ends and power management. He also works on circuit theory - particularly on feedback analysis and optimized synthesis of analog & digital filters - as well as on acoustics - modeling of enclosed spaces and development of electronic equipment for enhanced acoustic performance. In the last few years he has focused on power management ICs, as the director of the PartEnerIC project <https://parteneric.utcluj.ro/>, implemented within the EU-funded POC program. PartEnerIC targets the development of new techniques for the design and silicon integration, followed by characterization, high-level modeling and yield analysis of high-performance linear regulators and DC-DC converters for automotive applications.