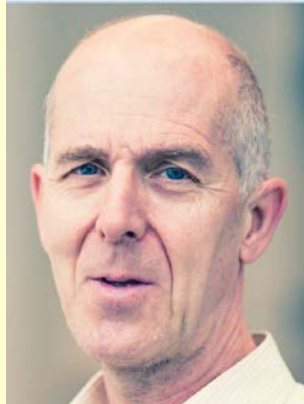




CECS

CENTER FOR EMBEDDED & CYBER-PHYSICAL SYSTEMS
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CECS Seminar



“Plasmonic Wave Computing: Concepts and Potential”

Francky Catthoor

IMEC Fellow and Professor of Electrical Engineering
at KU Leuven, Belgium

Wednesday, October 31st
11:00 a.m.- 12:00 p.m.
Engineering Hall 2430

Abstract: Several beyond CMOS computing directions are being explored given that the CMOS scaling roadmap faces increasing challenges. Any alternative is however facing strong competition from the extremely optimized CMOS roadmap. One of the potential directions which can complement CMOS in an area where it is less good is highly parallel "wave-type" computing. In this talk I will discuss some of the promising concepts and their potential but also challenges.

Biography: Francky Catthoor received a Ph.D. in EE from the Katholieke Univ. Leuven, Belgium in 1987. Between 1987 and 2000, he has headed several research domains in the area of synthesis techniques and architectural methodologies. Since 2000 he is strongly involved in other activities at IMEC including deep submicron technology aspects, IoT and biomedical platforms, and smart photovoltaic modules, all at IMEC Leuven, Belgium. Currently he is an IMEC fellow. He is also part-time full professor at the EE department of the KULeuven. He has been associate editor for several IEEE and ACM journals and was elected IEEE fellow in 2005.