

Press Release

UMIC Distinguished Lecture Series

Lecture by Prof. Dr. Giovanni de Micheli, École Polytechnique Fédérale de Lausanne, Switzerland

On the occasion of the third UMIC Distinguished Lecture, Prof. Dr. Giovanni de Micheli will give a guest lecture on 01 February 2010. The lecture will take place within the team-taught lecture series of the Forum Informatics, starting at 05:00 pm in the Ford Hall, on the 6th floor of the SuperC Building, Templergraben, in Aachen.

Prof. Dr. Giovanni de Micheli studied electrical engineering and computer science at the Politecnico di Milano, Italy, and the University of California, Berkeley, USA, and attained the doctoral degree in 1983. After completing the university education, he assumed the position of professor of electrical engineering at Stanford University. Currently, he is working as professor and director of the Integrated Systems Centre at EPFL and as president of the Scientific Committee of CSEM, Neuchatel, Switzerland. Prof. Micheli is fellow of ACCM and IEEE and member of advisory boards of several companies.

In his lecture, Prof. Micheli will talk about "System-Level Design Technologies for Heterogeneous Embedded Systems". Smart micro/nano systems will foster a revolution in health and environmental management, with the final objective of improving security and quality of life. At the same time, they will create a large market of components and systems, and a renewed perspective for electronic design and manufacturing companies. Such systems will be the fundamental building blocks of wearable and ambient systems, to gather and integrate heterogeneous data in real time and to operate and communicate in a wireless and ultra low power mode.

The design of these systems will be enabled by the hybridization of manufacturing technologies which enables us to attain unprecedented levels performance as well as to integrate electronic and fluidic circuits with sensors and actuators. To accomplish this ambitious goal, new technologies and architectures must be matched and tailored to the operational environment by solving novel and challenging design and optimization problems, through the creation of novel design methodologies and tools.

The lecture is directed to experts. Interested persons are welcome to attend.