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Alexander von Humboldt-Lecture

07.07.2011 | 16 Uhr c.t.
Rotunde | Cartesium

VORTRAG

Programm

16.15 Uhr	**Begrüßung**	
	Prof. Dr. Wilfried Müller	
	Rektor der Universität Bremen	
	Einführung	
	Prof. Dr. Rolf Drechsler	
	AG Rechnerarchitektur | Einladender Professor	
	Vortrag	
	Prof. Kaushik Roy, Ph.D.	
	Purdue University, USA	
ca. 17.00 Uhr	**„Get-Together"**	
	mit dem Preisträger bei einem kleinen Snack	

Approximate Computing

A New Technology for Energy-efficient Multimedia Systems

Prof. Kaushik Roy, Ph.D.
Purdue University, West Lafayette | USA
Alexander von Humboldt Laureate 2010/2011

In today's world there is an explosive growth in digital information content. Moreover, there is also a rapid increase in the number of users of multimedia applications related to image and video processing, recognition, mining and synthesis. These facts pose an interesting design challenge to process digital data in an energy-efficient manner while catering to desired user quality requirements. Most of these multimedia applications possess an inherent quality of error-resilience. This means that there is considerable room for allowing errors in intermediate computations, as long as the final output meets the user quality requirements. This relaxation in accuracy can be used to simplify the complexity of computations at different levels of design abstraction, which directly helps in reducing the energy consumption, leading to enhanced battery-life and improved reliability.

ANMELDUNG

Um Anmeldung wird bis zum 30.06.2011 gebeten unter:
http://www.informatik.uni-bremen.de/agra/humboldt/

Universität Bremen

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