

Signal Processing Seminar

Title: Quantitative Contrast-enhanced Imaging

Speaker: Dr. Massimo Mischi
Eindhoven University of Technology
The Netherlands

Date: Wednesday, October 21, 2009

Time: 4:00 - 5:00 pm

Where: 4269 Beckman Institute

Abstract: In the past years, imaging modalities such as ultrasound echography and magnetic resonance imaging have provided the use of contrast agents as an additional imaging option. Currently, contrast agents are widely adopted to support qualitative diagnostics, while the assessment of physiological parameters remains very limited. This presentation reports the progress made at the Eindhoven University of Technology (the Netherlands) in the field of cardiovascular quantification by contrast enhanced ultrasonography and magnetic resonance imaging. The latest advances in the area of quantitative imaging of angiogenesis by contrast enhanced ultrasonography are also discussed.

Speaker Bio: The speaker, Massimo Mischi, received his MSc in Electrical Engineering at La Sapienza University of Rome (Italy) in 1999. After that, he moved to the Netherlands, where in 2004 he received the PhD title from the Eindhoven University of Technology working on cardiovascular quantification by contrast ultrasonography. He has then extended his PhD work to magnetic resonance imaging and, more recently, to the quantification of angiogenesis. He has also been very active in the area of electromyography and electrohysterography. Currently, he is assistant professor at the Signal Processing Systems Group of the Electrical Engineering Department of the Eindhoven University of Technology. He is also secretary of the Benelux Chapter of the IEEE EMB Society.