



## Seminariile Multimedia

Universitatea Politehnica Timișoara prin **Centrul Multimedia** (înființat în 1996) vă invită să participați, în cadrul Seminarilor Multimedia, la seminarul

### **Superior Vision: Always on Human-like Vision for Smarter Devices**

**Dr. Ing. Valentin Mureșan**

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**Sala A109, Facultatea de Electronică și Telecomunicații**

**Abstract** – We live in a world of smart robots, drones and mobile phones/assistants. The technologies behind these products are heralded by low-profile research projects by big name players in the technology sector. The robotic and vision technologies behind these products will shift the applications of electronic devices to a more superior level of intelligence that will change our world. From a hardware point of view, these devices will become a hub of sensors that will be able to capture information about their environment and their context. Probably the most important sense for these devices will be their vision capabilities. To make this sense as close as possible to human vision, will require advanced technology to capture, process, and provide analytics in real time to enable their applications make critical decisions. "Always on" vision capabilities are envisaged as the paradigm for the next generation of mobile applications and in order to make it as close as possible to the human vision, depth perception and estimation are also key along with the image resolution. This Keynote will cover in this context the state of the art in the domain of vision with the latest image processing, computer vision and computational photography algorithms implemented on various low-power processing architectures.



**Biography** – Dr. Valentin (Val) Mureșan (EEng, MBA, PhD, MIEE, MIEEE), Co-Founder and General Manager, Timișoara at Movidius, is an experienced embedded R&D leader and entrepreneur who built a 50+ Silicon and Software Development Centre and innovation team from scratch in Timișoara, Romania. In that process, dr. Mureșan holds key roles in building and managing a team which develops leading edge products on a tight budget including multi-core silicon and software solutions for real time HD audio, video codecs and processing, computational photography, computer vision, 2D&3D camcorder and camera modules, 2D-3D conversion modules, 3D technology for 2D HDMI TV's and establishing the infrastructure to work

with global partners to deliver products on several continents. Dr. Mureșan has also been a director of an EU funded R&D project at Movidius (2010-2012), a Guest Lecturer at West University of Timișoara (2011-2012), Guest Lecturer at Universitatea Politehnica Timișoara (2009-2010), Co-Founder and Design Centre Manager at Movidia (2005-2009), Lecturer at Dublin City University (2002-2005), Research Programme Manager at the Centre for Digital Video Processing - Dublin City University (2001-2005) and Teaching Assistant at Dublin City University (1997-2001).

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<http://www.movidius.com/>

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