

Department of Electrical and Computer Engineering

Title: «*Research Activities at the IEM Department of the THM University of Applied Sciences*»

Prof. Hartmut Weber
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Wednesday, 23rd September 2015, 17:00 – 18:00
Room ΠΤΕΡ – E116, Old Campus – University of Cyprus

Abstract:

After a short presentation of THM University of Applied Sciences located in Giessen and Friedberg (Germany), this talk will present a synoptic view on some research activities at the THM department of Information Technology, Electrical Engineering and Mechatronics (IEM). These include glass fibers and their industrial applications, numerical calculation of electromagnetic fields, new protocols for rapid data transmission in mobile internet connections and biometric identification procedures. In the field of computer engineering, the IEM research areas are image processing with a special interest in stereo matching as well as hardware design approaches using functional programming. A recent application work concentrates on an electric wheelchair assistance system using ultrasonic and optical sensors for getting depth information.

Biography:

Prof. Hartmut Weber from THM studied Electrical Engineering with a specialization in Computer Engineering at RWTH Aachen University from 1979 – 1985. His professional career started in 1986 with Nixdorf Computer Engineering in Paderborn near Dortmund where he got in touch with the University of Dortmund. He switched back to this university and worked on manipulator control and programming. After his PhD in Dortmund he was with Technical University of Hamburg, working as a PostDoc on mobile robotics. From 1998 to 2006 he worked at industry on image processing and machine simulation. Since 2006 he is with THM, where he is teaching computer architecture, embedded systems and microprocessor fundamentals. His recent research interests are stereo matching and hardware design using functional programming.