

DOCTOR HONORIS CAUSA

Dr. Phys. Attila Michael BILGIC, Krohne Group Duisburg, Germany

Dr. Attila Michael Bilgic studied Physics at Dortmund University and was awarded an Engineering title in theoretical Physics of solids in 1996. Between 1996 and 2000 he continued his Ph.D. studies at the same university and in the year 2000 he was awarded the title of Ph.D. Engineer in the area of microwave engineering. Thenceforth Dr. Attila Bilgic started his career in industry, working for Infineon Technologies AG, developing UMTS 3rd generation communication systems. Starting with 2004 he becomes a member of the Corporate Software Group of the Infineon Technologies, where he was in charge of the team working on defining software architecture for all application levels and multimedia Infineon platform protocols for mobile terminals.

Starting with April 2007 he has fulfilled an academic position as professor and Department Leader for Integrated Systems at Ruhr-University-Bochum for a period of 3 years.

In 2009, Dr. Attila Bilgic was appointed Managing Director and CTO at KROHNE Group, and in 2017 he became Managing Director of Ludwig KROHNE GmbH & Co KG. In this context, Dr. Attila Bilgic has taken over global responsibility for research and development and expands the management team of KROHNE Group. The focus area is mainly intelligent sensors, in which KROHNE performed pioneer activities with many projects under his supervision.

Dr. Attila Bilgic displays a rich and very fruitful scientific research activity. The areas he focuses on are: integrated system architecture for multi-standard wireless communications, architecture for software and integrated systems, hardware-software co-design, measuring systems, intelligent sensors, sensor networks.

His scientific creativity is also shaped into 22 patents, which protect his inventions, as well as the ones registered with the staff he coordinated. The list of the patents of Dr. Attila Bilgic's inventions include applications still being examined, but also patented inventions by the United States Patents and Trademark Office (USPTO). The areas he tackled include intelligent measuring devices, multiprocessor communication systems, efficient data transmission, adaptive filters, correction frequencies for radio communication, etc. It really is an outstanding activity, which highlights the pragmatic manner in which Dr. Attila Bilgic's research activities have been primarily directed towards practical applications of great economic resonance.

Dr. Attila Bilgic has a long and fruitful cooperation activity with the Politehnica University of Timișoara which started in 2007:

- Dr. Attila Bilgic participated in preparing, managing and finalizing the eMuCo European project, supported by the FP7 framework



program for technological research and development during 2008–2010 which he coordinated. In the eMuCo project, a significant number of teachers, some Master's, Ph.D. students and researchers from the Computers Department of UPT were involved, and a significant number of thesis and doctorates were finalized.

- Due to the excellent mutual collaboration relationships, in December 2015, as a result of Dr. Attila Bilgic's endeavors, Dr. Eng. Dacian Tudor and Prof. Dr. Eng. Vladimir-Ioan Crețu, the management of the Politehnica University Timișoara, represented by Prof. Dr. Eng. Viorel-Aurel Șerban, UPT Rector, and the KROHNE subsidiary in Romania, S.C. KROHNE Solutions S.R.L. signed a framework agreement for Research-Development and Consultancy which sets the general context of the cooperation in order to deliver research and development services for software and hardware systems by the teachers and diploma, Master's and Ph.D. students from UPT.

- KROHNE is one of the active sponsors within the IT area for UPT, and it has been generously contributing to the course of specialized conferences (all the SACI conferences organized by UPT in collaboration with Obuda University from Hungary), awarding distinguished students, great events as the anniversary of half a century for the first Computers' School in Romania at UPT, and other academic events.