

Conference Programme

Scientific programme can be found [here](#).

Keynote Speakers



Prof. Dr.eng. Pavol Bauer,

Head of the DC Systems & Storage Group at the ESE TU Delft
Delft University of Technology, The Netherlands

DC versus AC: Is the

Key factors for increasing electricity generation from renewable energy sources and reducing the cost of electrical power grid are improving energy conversion efficiency, higher flexibility, reduction of the material consumption and lower cost when compared to the existing AC (alternating current) network. Electricity from renewable sources is constantly increasing and energy losses in numerous DC-AC and AC-DC conversion steps become a significant challenge. DC versus AC connection for long distance power transmission research questions related to DC Grids and examples of systems with high efficiency are shown.

Short CV:

Pavol Bauer received his Masters in Electrical Engineering at the Technical University of Kosice ('85), Ph.D. from Delft University of Technology ('95) and is currently holding position of head of DC Systems, Energy Conversion and Storage group. From 2002 to 2003 he was working partially at KEMA (DNV GL, Arnhem) and from 2003 to 2006 he is an author or co-author of 6 books, he holds 4 international patents and organized several tutorials at the international conferences. He participated in several Leonardo da Vinci EU projects as project partner (ELINA, INETELE, E-Pragmatic) and coordinator (PEMCWebLab.com-Edipe, SES). He is a Society chapter, member of the Power Electronics and Motion Control (EPE-PEMC) council, Member of the Executive Committee of European Power Electronics Association.



Prof. Péter Korondi, Ph.D, D.Sc.,

Head of the Department of Mechatronics, Optics and Mechanical Engineering Informatics
Budapest University of Economics and Technology, Hungary

Ethics

Robotics is facing a paradigm shift. From pure industrial environment robots are soon to step over into our daily life. For this they need to have totally new capabilities to execute a pre-programmed action line. They must be able to adapt themselves to changing environment, make their own decisions and in addition, they must be able to interact with humans. These questions might seem remote however we need to think ahead. Along with the technical development of robots we have to deal with their social integration.

We do believe that the robot should not be human like. We have to study their possible status in society. Some people will take them family members while others will see them as tools. Adequate behaviour models that can be implemented into the robot is learned from the dogs.

Short CV:

Péter Korondi received the Dipl. Eng. and Ph.D. degrees in electrical engineering from the Technical University of Budapest, Budapest, Hungary, in 1982 and 1985, respectively. From April 1993 to April 1995, he worked in the laboratory of Prof. Harashima and Prof. Hashimoto at the Institute of Industrial Science, The University of Tokyo. Dr. Korondi is a founding member of the International PEMC Council. He is the chair of IFAC Technical Committee on Robotics. He is AdCom member of the International Power Electronics and Motion Control Council.



Prof. Dr.sc. Ivan Petrović,

Head of the Department of Control and Computer Engineering
University of Zagreb, Croatia

The talk will give a brief overview of recent research activities and achievements of my research group in the area of autonomous navigation of ground and environment model building, and moving objects detection and tracking. Several application scenarios for environment modeling and inspection will

Short CV:

Ivan Petrović is a full professor at the Faculty of Electrical Engineering and Computing, University of Zagreb. He is the head of the Autonomous Mobile I Prof. Petrović addressed various aspects of automatic control theory and its application. In the last decade his research interest focus is set to advanced in scientific journals and more than 160 papers in proceedings of international conferences. Results of his research effort have been implemented in several coordinated a major national robotics research program "Intelligent robotic systems and autonomous vehicles" and FP7 project "Centre of Research Exc

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