Foreword about Professor Branislav Dobrucky senior member of the IEEE Industrial Electronics Society and the Professor at the Department of Mechatronics and Electronics, Faculty of Electrical Engineering and Information Technology, University of Zilina

Branislav Dobrucky

Branislav Dobrucky was born in 1942 in Sobotiste district of Senica nad Myjavou, Slovak Republic. He is a graduate of the University of Transport and Communications in Zilina (now University of Zilina), Czechoslovakia (1966). He received the Ph.D. degree in Electric Traction and Electric Drives (1984) from the same university. He completed also Microprocessors and Microcomputers post-gradual course at the Computer Department of the Electrical Engineering Faculty of the Czech Technical University in Prague, Czech Republic (1990). Appointed of Professor in the field of Power Electronic Systems he has been by the University of Zilina in 1997.

Branislav Dobrucky started his professional career in the Czechoslovak Railways (CSD) - Elektrousek Brno and Bratislava and as an engineer for traction supply substations at the CSD Management of East Railways in Bratislava (1967–1969). In the period 1970–1990 he served as a research worker at the ZTS Electrical Research Institute (now Electrical Research and Testing Institute) in Nova Dubnica, Slovakia. In 1990 he joined the University of Zilina where he works as a professor at the Department of Mechatronics and Electronics of the Faculty of Electrical Engineering and Information Technology of this university up to nowadays.

He is a senior member of the Institute of Electrical and Electronics Engineers Industrial Electronic Society, reviewer of the Institute of Electrical and Electronics Engineers Transactions on Industrial and Power Electronic journals, member the doctoral-study board "Electrical Engineering", Faculty of Electrical Engineering and Information Technology, University of Zilina, reviewer of the journal Advances in Electrical and Electronic Engineering, member of Institute of Electrical and Electronics Engineers Industry Applications Society (IAS) and Industrial Electronics Society (IES) Student Thesis Contest Evaluation committee.

Scientific activities of Prof. Branislav Dobrucky during his research aerie started with the ZTS Electrical Research Institute industrial-oriented application as outputs of the National programmes (e.g. development of uninterruptible power supplies for industrial process control RPP-16 computers of the Slovak Academy of Science, static converters for multi-motor middle frequency electric drives for grinding machines for ZTS Martin and NHKG Ostrava-Kuncice, associated control system for 110 tons BelAZ dumper vehicles for ZSSR, etc.). Besides, he has been author and co-author of ten author's certificate of patent inventions.

In the academic field, he was a local coordinator for the University of some European Union projects as those were:

- ECON2 Electrical Energy Conversion and Conditioning (ECON2 2004–2008) - EU FP6 programme.
- Technologic Park Innovation and Trans-European Cooperation (TPI-TEC 2009–2011)- EU LLP programme.
- Alumni as a Tools for Cooperation between Universities and External Bodies (ALUMNI 1999–2001) - TEMPUS-CME programme.

As co-operator, he served in the other European programme projects: TEMPUS I and II projects (Improving power electronic education), INCO Copernicus UNIDRIVE project (Microcomputer control for converter drive), NSS E-Twinning project (National support service for electronic school cooperation).

On the other hand, he has been cooperator within the Russian Federation international project “New methods and algorithms of combined processing of signals and images with unknown parameters in the promising radar and communication systems” (2014–2018), and already mentioned joint project “Research and development of associated control system for 110 tons BelAZ dumper vehicles” (1988–1991).

At present, Prof. Branislav Dobrucky focuses mainly on the mechatronic and power electronic systems. During of last years, his research group has developed in cooperation with the Elteco, a.s. Slovak company the new generation of power supplies based on converters of high power density, high efficiency, low EMI and circulate energy (2017).

Dear readers and editor,
it is a great honor for me to address you by a few words. From my point of view, today's power electronic systems are creating by the conjunction of electrical controlled drives, mechatronics, electric traction & power engineering on the one side, and its parts are microelectronic, microcomputers Digital Signal Processors (DSPs), automation & informatics and communications on the other side. So, as you see, it is a complex matter and only the versatile interdisciplinary educated one can handle all the necessary particulars for works in the field of power electronics. The scientific journals among which Advances in Electrical and Electronic Engineering includes can help you apply now and in future in this field of technology. I would like to wish you many success, papers and citations in your journal in the future.