

Foreword about Ivan Glesk, Professor, member of the Department of Electronic and Electrical Engineering, Faculty of Engineering, University of Strathclyde, United Kingdom:

Ivan Glesk was born 1957. He received his Ph.D. degree in Quantum Electronics and Optics from Comenius University in Bratislava, Slovakia and Dr.Sc. degree from the Slovak Academy of Sciences in 1989 and 1998, respectively. In 1986, he joined Comenius University where he became Professor of Physics in the Department of Experimental Physics. In 1990, as the recipient of IREX Fellowship he was a Visiting Fellow at the Department of Mechanical and Aerospace Engineering at Princeton University, Princeton NJ, USA. In 1991 he joined the Department of Electrical Engineering at Princeton University where he became Senior Research Scholar and Manager of the Lightwave Communication Research Laboratory. After 17 years at Princeton, in 2007, he joined the Department Electronic and Electrical Engineering, University of Strathclyde, as the chair Professor of Broadband Communication Systems. His research interests encompass LIDAR systems, OCDMA, OTDM, DWDM, ultrafast all-optical switching and signal processing, data security in the physical layer of optical networks and interconnect, sensors, and bio-photonics.



Ivan Glesk

Among his main contributions belong the co-invention of an ultra-fast all-optical demultiplexer widely known in the literature as TOAD, the research in the area of ultrafast all-optical switching and signal processing, and advanced applications of incoherent Optical CDMA and Optical TDM. Professor Glesk has over 300 publications, several book chapters and holds 5 patents. He also designed and demonstrated advanced optical networks, ultra-high speed optical interconnect for Sun Microsystems and a secure optical communication platform for avionic applications for Lockheed-Martin. He is a member of the International Advisory Board of the journal "Optica Applicata" published by the Institute of Physics in Wroclaw and member of the Editorial board of the "International Journal of Optics" published by the Hindawi Publishing Corporation. He is IEEE Senior Member, member of IEEE Computer Society, Optical Society of America, European Optical Society, and Czech-Slovak Photonics Society.

Dear readers,

We are fortunate to be an integral part of the very exciting period in the human history. The world we live in is changing in front of our eyes so quickly and so dramatically that it seems we often have a hard time not to only follow these changes but often to even notice them. Only few years ago words like cloud computing, petaflop computer, silicon photonics or exabytes of data were not needed to be part of the young generation vocabulary. However with more such changes coming we need to be proactive to succeed. All, the researchers, the educators and the society as the whole must be willing and be ready to invest through the highest quality education and forward looking research whatever it is necessary to unlock the secrets to secure technological innovations we will needed so the future will bring even more excitements than we are enjoying right now.