



U organizaciji Elektrotehničkog fakulteta Univerziteta u Beogradu i IEEE PES Podružnice za Srbiju i Crnu Goru održaće se workshop pod naslovom „Sustainable future power systems and improved flexibility“ u četvrtak 09. maja 2019 godine u 16h u sali 61 Elektrotehničkog fakulteta Univerziteta u Beogradu. Prvo predavanje je pod naslovom

Sustainable power systems – challenges of improved flexibility

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Abstract: The future power/energy systems will be characterised by blurred boundaries between transmission and distribution system, by mix of wide range of electricity generating technologies (conventional hydro, thermal, nuclear and power electronic interfaced stochastic and intermittent renewable generation), responsive and highly flexible, typically power electronics interfaced, demand and storage with significant temporal and spatial uncertainty, proliferation of power electronics (HVDC, FACTS devices and new types of load devices) and significantly higher reliance on the use of measurement data including global (Wide Area Monitoring) signals for system identification, characterization and control and Information and Communication Technology embedded within the power system network and its components.

The key characteristic of such a complex system, if it is only one to be picked, would certainly be proliferation of power electronic devices in different shapes and forms and for different purposes. This will increase controllability and observability of the system but may as a trade off result in different/unexpected dynamic behaviour of the system and possibly, under some circumstances, deterioration of some aspects of its performance. This presentation identifies some of the challenges associated with operation and control of power systems with significant penetration of power electronics interfaced generation and loads and approaches to identify, model and overcome them.

Biography of the presenter



Jovica V. Milanovic received Dipl.Ing. and M.Sc. degrees from the University of Belgrade, Yugoslavia, Ph.D. degree from the University of Newcastle, Australia, and D.Sc. degree from The University of Manchester, UK. Prior to joining The University of Manchester, UK, in 1998, he worked with “Energoproject”, Engineering and Consulting Co. and the University of Belgrade in Yugoslavia, and the Universities of Newcastle and Tasmania in Australia.

Currently, he is a Professor of Electrical Power Engineering, Deputy Head of School and Director of External Affairs in the School of Electrical and Electronic Engineering at The University of Manchester, UK, Visiting Professor at the University of Novi Sad and the University of Belgrade, Serbia and was a Conjoint Professor at the University of Newcastle, Australia. He was chairman of 4 international conferences, editor or member of editorial/technical boards of 70+ international journals and conferences, research project assessor for numerous international government research funding councils, member of 9 (convenor of 3) past or current IEEE/CIGRE/CIREN WG and consultant to or a member of advisory boards for several international companies and utilities. Professor Milanovic supervised over 150 Academic visitors, Research Associates, PhD and MSc students, contributed to research grant income of over £80 million, published over 500 research papers and reports, delivered 25 key-note speeches at international conferences and presented over 170 courses/tutorials and lectures to industry and academia around the world.

Professor Milanovic is a Chartered Engineer in the UK, Foreign member of the Serbian Academy of Engineering Sciences, Fellow of the IET, Fellow of the IEEE, Distinguished IEEE PES Lecturer and currently serves on IEEE PES Governing Board as Regional Representative for Europe, Middle east and Africa. He is a member of IEEE Herman Halperin Transmission & Distribution Award Committee and was a vice-chair of the IEEE PES Fellows Evaluation Committee.