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New findings in Microgrid control

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New Findings in Microgrids Control

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2016年9月5日(月) 15:30 – 17:00

大阪大学 吹田キャンパス 電気 E1 棟 メモリアルホール(E1-115)

参加費 無料

◆ Abstract

The Microgrid (MG) concept as an important block of future smart grids provides a quite appealing solution for integrating renewable energy sources (RESs) into the power grids. The increasing interest in penetration of RESs among the MGs highlights the importance of these systems and addresses serious dynamic and control challenges in MGs design and operation. In response to the existing challenges and for integration of advanced computation and control into appropriate levels of MG control synthesis, this speech summarizes academic/research outcomes and contributions of the speaker, that are influenced by the practical experiences in several countries, universities and power electric companies. The speech describes some important issues on MG dynamics and control as well as new relevant perspectives and research outcomes. It addresses some important parts of a new book (in press by Wiley-IEEE) in the relevant area.

◆ Biography

Hassan Bevrani received PhD degree in electrical engineering from Osaka University in 2004. He is a full professor and the program leader of Micro/Smart Grids Research Center (SMGRC) at the University of Kurdistan. Over the years, he has worked with Osaka University, Kumamoto University, Queensland University of Technology (Australia), Kyushu Institute of Technology, Ecole centrale de Lille (France), and Technical University of Berlin (Germany). He is the author of 5 international books, 15 book chapters, and more than 220 journal/conference papers. Prof. Bevrani is senior member of IEEE and his current research interests include microgrid control, smart grid operation and control, and intelligent/robust control applications in power electric industry. URL: <http://eng.uok.ac.ir/bevrani>

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