MURRAY STATE UNIVERSITY
Telecommunications Systems Management

News Release

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MSU TSM FACULTY MEMBER PUBLISHED IN JOURNAL OF COMMUNICATIONS

Dr. Abdulrahman Yarali, associate professor in the Telecommunications Systems Management (TSM) program, was recently published an article entitled, "Smart Grid Networks: Promises and Challenges" in the *Journal of Communications*. He coauthored this publication with Professor Saifur Rahman of Virginia Tech; the publication addressed the importance of the various technologies that utilize the data transmission for the smart grid and problems or difficulties.

Yarali explained the efficiency of smart grid networks, "Smart grid can bring more efficiency into our utility infrastructure usinc ICT. There has been about $200 Billion investment on Smart Grid implementation. In the US, the government has allocated about $11 Billion on this subject to modify our existing electric generation, transmission, distribution and consumption. Some of the areas which smart grid can bring changes into existing infrastructure include: Higher energy efficiency, lower cost because of more efficient equipment use, more accurate allocation of cost to customers, increased power system reliability, enabling technology for high shares of variable renewable."

In addition to his recent publication, Yarali traveled to Italy, June 24-June 29th, to make a presentation on smart grid and wireless and also served as a panelist on the topic of "Collaboration and Technology Advancement".

Yarali's publication in the *Journal of Communications* proves his contribution and dissemination of innovative new works in communications. This journal is a scholarly peer-reviewed international scientific journal published monthly, focusing on theories, systems, methods, algorithms and applications in communications.

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