



学术报告

Applications of Multilevel Converters to Grid Connections and Motor Drives



讲座嘉宾: Hirofumi Akagi
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讲座时间: 2018年11月9日（星期五），14:00

讲座地点: 电机工程楼201

讲座内容:

This talk presents cascaded multilevel converters and modular multilevel converters, or more strictly, modular multilevel cascade converters in a broad sense. Special attention is paid to circuit topology and control strategy, along with their applications to grid connections and motor drive systems. This speaker turns on a modular multilevel converter, or more strictly, a modular multilevel double-star chopper-cell (DSCC) converter that attracts the most attention among the six modular multilevel cascade converter family members. Finally, the speaker presents three downscaled motor drive systems using two kinds of modular multilevel cascade converters.

Hirofumi Akagi 教授简介

Hirofumi Akagi is the IEEE Fellow. He received his Ph. D. degree in electrical engineering from the Tokyo Institute of Technology, Tokyo, Japan, in 1979. Since 2000, he has been Professor, currently Distinguished Professor, in the department of electrical and electronic engineering at the Tokyo Institute of Technology. Prior to it, he was Professor at Okayama University, Okayama, Japan, from 1991 to 1999, and Assistant and then Associate Professor at Nagaoka University of Technology, Nagaoka, Japan from April 1979 to 1991. Dr. Akagi served as the President of the IEEE Power Electronics Society from 2007 to 2008 for two years, and the IEEE Division II Director from 2015 to 2016 for two years. His research interests include power conversion systems and their applications to industry, transportation, and utility. He has authored and coauthored about 140 IEEE Transactions papers, and three invited papers in the Proceedings of the IEEE. He has received six IEEE Transactions Prize Paper Awards, and 15 IEEE Industry Applications Society Committee Prize Paper Awards. In addition, he is the recipient of the 2001 IEEE Power Electronics Society William E. Newell Award, the 2004 IEEE Industry Applications Society Outstanding Achievement Award, the 2008 IEEE Richard H. Kaufmann Award, the 2012 IEEE Power & Energy Society Nari Hingorani Custom Power Award, and the 2018 IEEE Medal in Power Engineering.

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