

UNIVERSITY OF MACAU
FACULTY OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF COMPUTER AND INFORMATION
SCIENCE

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**“Design and Implementation of Vehicular
CAN Bus and Self-Diagnostic”**

by

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Date : 06/08/2013 (TUESDAY)

Time : 11:00

Venue : JG06

Abstract

This talk will brief introduce the design and implementation of vehicular CAN bus as well as on-board diagnostic system. It begins with the development history of CAN bus and its applications. Then the CAN bus standard and specification will be discussed. The last part is several actual vehicular CAN bus research issues. After understanding CAN bus, this talk will further present one of the most useful CAN bus applications in vehicle. That is on-board diagnostic system or called OBD system. In this part, the presentation of OBD history will be followed by the description of OBD standard. Next part is the programming skill about development OBD system. Finally, this talk will also demonstrate CAN bus-based OBD signal generator and OBD decoder.

Biography

Shi-Huang Chen received the B.E. and M.E. degrees from the Kaohsiung Polytechnic Institute, Kaohsiung, Taiwan, in 1994 and 1996, respectively, and the Ph.D. degree from the National Cheng Kung University, Taiwan, in 2002, all in electrical engineering. Between 2001 and 2003, he was a research engineer at the AVXing Inc., Kaohsiung, Taiwan. He joined the Department of Computer Science and Information Engineering, Shu-Te University, Kaohsiung, as an Assistant Professor in February 2003, and has become an Associate Professor since August 2008. He was selected as the “Best teacher” of Shu-Te University in the 2008 academic year. His research interests include vehicle electronics / network systems, vehicle self-diagnostic system, and vehicle man-machine interface.

ALL ARE WELCOME!