



**Distinguished
Lecturers Program
(DLP)**

“Sensorless Control of Induction Motors”

11 October 2014 (Saturday) : 9.30 – 11.00 am
Venue : To be determined in SHAH ALAM

Joachim Holtz, Life Fellow, IEEE
University of Wuppertal – Germany

Organized by:
IEEE Malaysia Industrial Electronics and Industry Applications
(IES/IAS) Joint Chapter

**FREE of
CHARGE**

Seminar Overview

Sensorless speed control of induction motors has become a mature technology in the past decade. Eliminating the speed sensor on the motor shaft represents a cost advantage, which combines favorably with increased reliability that results from the absence of a mechanical transducer and its sensor cable.

On-going research is focused on providing sustained operation at high dynamic performance in the very low speed range including zero speed and zero stator frequency. Such specifications are satisfied by accurate modelling of the machine and the nonlinear inverter, and by fast on-line parameter adaptation.

An overview is given on sensorless speed control which uses signal flow graphs of complex space vector quantities to give an insightful description of the physical and mathematical systems used in sensorless control. The performance at different operating conditions is illustrated by short movies.

Seminar Presenter (Joachim Holtz, Life Fellow, IEEE)

Joachim Holtz graduated in 1967 and received the Ph.D. degree in 1969 from the Technical University Braunschweig, Germany.

In 1969 he became Associate Professor and, in 1971, Full Professor and Head of the Control Engineering Laboratory, Indian Institute of Technology in Madras, India. He joined the Siemens Research Laboratories in Erlangen, Germany, in 1972. From 1976 to 1998, he was Professor and Head of the Electrical Machines and Drives Laboratory, Wuppertal University, Germany. He is presently Professor Emeritus and a Consultant.

Dr. Holtz has extensively published, among others 12 invited papers in journals. He has earned 15 Prize Paper Awards. He is the co-author of four books, and holds 32 patents.

Dr. Holtz is the recipient of the IEEE Industrial Electronics Society Dr. Eugene Mittelmann Achievement Award, the IEEE Industrial Applications Society Outstanding Achievement Award, the IEEE Power Electronics Society William E. Newell Field Award, the IEEE Third Millennium Medal, the Anthony J. Hornfeck Service Award, and the IEEE Lamme Gold Medal. He is a Life Fellow of the IEEE.

Dr. Holtz is Past Editor-in-Chief of the IEEE Transactions on Industrial Electronics, Distinguished Lecturer of the IEEE Industrial Applications Society and IEEE Industrial Electronics Society.

Registration

This is a Free Seminar but registration is required for logistics. Seats are limited: first come first serve basis. For more details, please contact :

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Kindly email this page back to the Secretariat ASAP or latest by 9 October 2014.

Email : kaykamal88@gmail.com



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Lecturers Program
(DLP)

An invitation to a DLP Talk on "Sensorless Control of Induction Motors"

9.30 – 11.00 am

(Registration at 9.00 am)

Venue : To be determined in SHAH ALAM, Selangor DE

**FREE of
CHARGE**

Name and Address of Organization:			
Name of Contact person:			
Handphone No:		Fax. No:	
Email address:			
Name of participants	Email Address	IEEE membership number (if any)	

Noted : Only those registered will be notified on the exact location of venue.