

Seminars
Science, Technology and Industry,
Quo Vadis?

Okyay Kaynak
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Tarih: 25 Şubat 2014
Yer: Mühendislik Fakültesi VYKM2
Saat:13:00-14:00

This presentation discusses the profound technological changes that have taken place during the last 2 decades, the main characteristics being erosion and convergence. It is pointed out that the advances are at the edge of traditional disciplines and the connections between different disciplines are becoming the core of the new technologies, in not multi, not inter but a transdisciplinary manner. It is argued that converges fuels convergence and results in emergence. The challenges that the engineers of the 21st century face are discussed and different educational philosophies that need to be adopted are pointed out to. Finally, the changes observed in the industry are discussed together with the paradigm change from industrial electronics to industrial informatics.

The presentation will end with a presentation on how science and technology scene has evolved in Singapore, the plans it has for the future and the various opportunities that are available to students in terms of summer training and Ph.D. scholarships.

Time: 50 minutes for presentation, 10 minutes for questions and discussions.

Short Biography of Okyay Kaynak

Okyay Kaynak received the B.Sc. degree with first class honors and Ph.D. degrees in electronic and electrical engineering from the University of Birmingham, UK, in 1969 and 1972 respectively.

From 1972 to 1979, he held various positions within the industry. In 1979, he joined the Department of Electrical and Electronics Engineering, Bogazici University, Istanbul, Turkey, where he is presently a Full Professor holding the UNESCO Chair on Mechatronics. He has hold long-term (near to or more than a year) Visiting Professor/Scholar positions at various institutions in Japan, Germany, U.S. and Singapore. His current research interests are in the fields of intelligent control and mechatronics. He has authored three books and edited five and authored or coauthored close to 400 papers that have appeared in various journals and conference proceedings.

Dr. Kaynak is a fellow of IEEE. Currently he is the Co-Editor-in-Chief of the IEEE Transactions on Industrial Electronics and the incoming Editor-in-Chief of IEEE/ASME Transactions on Mechatronics. Additionally he is on the Editorial or Advisory Boards of a number of scholarly journals.

Dr. Kaynak is active in international organizations, has served on many committees of IEEE and was the president of IEEE Industrial Electronics Society during 2002-2003.