Teaching, Research & Development in Information Communication Institute of Singapore, EEE

Associate Professor Low Chor Ping

The research activities of the Information Communication Institute of Singapore (ICIS) focus mainly on Networking and Information Communication Technology (ICT). Being one of the Divisions in the School, ICIS actively promotes both basic research and applied research activities with the aim of contributing new knowledge and impact on the theoretical front and in integration and application of the state-of-the art in Networking and ICT to develop new prototypes and services which are of significant economic value to the industry.

The R&D activities of the Division are broadly classified into three research groups: (i) Networking, (ii) Software Engineering and (iii) Soft Computing. One of the main research themes of the Networking group is that of Quality-of-Service (QoS) provisioning and management issues in networks (with emphasis on wireless networks and optical networks). The research activities carried out by the members of this group include (but are not limited to) the following: routing, scheduling and buffer management, admission control, congestion control and performance evaluation. Members of the Software Engineering group are interested in the design and development of methodologies, techniques and tools for software systems. The members of the Soft Computing groups are engaged in research activities which include: neural networks and applications, knowledge-based engineering, fuzzy logic, intelligent agent, virtual reality, information security and application of soft computing techniques for e-learning, pattern recognition, data mining, and secured transactions over the Internet.

In teaching activities, the Division provides specialist training in communication software and networks. In view of the need to better prepare graduates to work and contribute to a knowledge-based economy, a new broad based curriculum for the Bachelor of Electrical and Electronic Engineering will be implemented in AY 2004-2005. ICIS offers subjects under one of the broad options that is offered under the new curriculum, namely the option in Info-Communication Engineering. In addition ICIS also offers programmes to train graduates. In particular, ICIS offers full-time and part-time MSc programmes in Communication Software and Networks. ICIS also conducts a part-time Graduate Diploma programme in Information-Communication Technology. This is a conversion program designed to equip graduates from other disciplines with the knowledge and applications of information communication technologies.

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