



NTU-Linköping University Workshop

9 – 11 September 2009

Nanyang Executive Centre (NEC): Auditorium/Lecture Room 1

Programme (Draft ver as at 2 Sep and subject to updates)

Time	Programme
9 September (Wednesday) – Day 1	
8.20am	Arrival of Participants Registration
8.40am	Opening Session @ Auditorium, NEC Chairperson: Prof Soh Yeng Chai Welcome Address by Prof Bertil Andersson, Provost, NTU
9.00am	Address by Prof Mille Millnert, Rector, LiU
9.20am	Prof Lennart Ljung and Prof Patrick Doherty, LiU <i>"Overview of Computer Science at LiU"</i>
10.00am	Prof Kam Chan Hin, EEE, NTU <i>"Overview of Research in Microelectronics in the School of Electrical & Electronic Engineering"</i>
10.40am	Tea Reception
11.20am	Opening Session continues @ Auditorium, NEC Chairperson: Prof Soh Yeng Chai Prof Bo Liedberg, LiU <i>"Overview of Materials Science and Sensing at LiU"</i>
12noon	Prof Freddy Boey, MSE, NTU <i>"Commercialisable Research at the School of Materials Science & Engineering – the NTU Experience"</i>
12.40pm	Lunch
Parallel 1	Parallel Session: Materials Science <i>Venue: Auditorium, NEC</i>
1.40pm	Chairperson: Prof Subodh Mhaisalkar Prof Bo Liedberg, LiU <i>"Soft Matter Nanoscience and Biochemical Sensing"</i>
2.10pm	Prof Subodh Mhaisalkar, MSE, NTU <i>"Laminated, Microfluidic-integrated Carbon Nanotubes based Biosensors"</i>

Time	Programme
2.40pm	Prof Zhou Wei, MAE, NTU <i>"Nano-probing based on Surface Plasmon Polaritons"</i>
3.10pm	Prof Maria E. Michel-Beyerle, Visiting Professor, SPMS, NTU <i>"Excited State Dynamics in DNA and Proteins and its Application to the Design and Characterisation of Sensors"</i>
3.40pm	Tea Break
Parallel 1	Parallel Session continues: Materials Science Venue: Auditorium, NEC Chairperson: Prof Subodh Mhaisalkar
4.00pm	Prof William R Salaneck, LiU <i>"Ultra-fast Charge Transfer at Interfaces in Organic Electronics using the Core-hole-clock Principle"</i>
4.30pm	Prof Chen Xiaodong, MSE, NTU <i>"Chemically Enabled Fabrication of Molecular Transport Junctions"</i>
5.00pm	Prof Lam Yeng Ming, MSE, NTU <i>"Self-Assembly of Organic Molecules for Conduction and Energy Harvesting Application"</i>
Parallel 2	Parallel Session: Systems and Computer related Science Venue: Lecture Room 1, NEC
	Chairperson: Prof Wang Dan Wei
1.40pm	Prof Lennart Ljung, LiU <i>"Developments in System Identification"</i>
2.10pm	Prof Wang Youyi, EEE, NTU <i>H^∞ Control of Discrete-time T-S Fuzzy Systems with Local Nonlinear Models"</i>
2.40pm	Prof Wen Changyun, EEE, NTU <i>"Decentralised Adaptive Control"</i>
3.10pm	Prof Xie Lihua, EEE, NTU <i>"Information-constrained Estimation and Control"</i>
3.40pm	Tea Break
Parallel 2	Parallel Session continues: Systems and Computer related Science Venue: Lecture Room 1, NEC Chairperson: Prof Wang Dan Wei
4.00pm	Prof A Alvandpour, LiU <i>"Circuits and Systems Research at LiU"</i>
4.30pm	Prof Thambipillai Srikantan, SCE, NTU <i>"Architecture-centric Algorithms and Design Methodologies for Embedded Systems -- A CHIPES Overview"</i>
5.00pm	Prof Joseph Chang, EEE, NTU <i>"A Micropower Asynchronous-Logic Digital Signal Processor"</i>
5.30pm	End of Day 1 workshop

10 September (Thursday) – Day 2

Parallel 1	Parallel Session: Materials Science Venue: Auditorium, NEC
	Chairperson: Prof Subbu Venkatraman
8.40am	Prof Zhang Hua, MSE, NTU <i>"Patterned Templates used for Controlled Growth of Bio- and Nanostructures"</i>
9.10am	Prof M Griffith, LiU <i>"Biomaterials Enhanced Stem-Cell Therapies for Regenerative Medicine: Corneal Substitutes for Transplantation"</i>
9.40am	Prof Susana Geifman Shochat, SBS, NTU <i>"The SPR Biosensor Technology Platform at SBS: Different Projects and Applications"</i>
10.10am	Prof Subbu Venkatraman, MSE, NTU <i>"Biomedical Implants: The Material-Biology Interface"</i>
10.40am	Tea Break
Parallel 1	Parallel Session continues: Materials Science Venue: Auditorium, NEC
	Chairperson: Prof Subbu Venkatraman
11.00am	Prof M Berggren, LiU <i>"Printed Organic Electronics and Bioelectronics"</i>
11.30am	Prof Vinay Kumar Kariwala, SCBE, NTU <i>"Monitoring and Simulation of Particulate Processes"</i>
12noon	Prof Sun Xiaowei, EEE, NTU <i>"Revealing the Intermolecular Distance Dependence of Exciton Diffusion Length and its Implication in Organic Solar Cells"</i>
12.30pm	Lunch
Parallel 1	Parallel Session continues: Materials Science Venue: Auditorium, NEC
	Chairperson: Prof Pey Kin Leong
1.30pm	Prof Wolfgang Knoll, AIT Austrian Institute of Technology <i>"Tethered Bimolecular Lipid Membrane as a Novel Biosensor Platform"</i>
2.00pm	Prof Chen Hongyu, SPMS, NTU <i>"Towards Photosynthetic Nanoparticles"</i>
2.30pm	Prof Darren Sun, CEE, NTU <i>"Multifunctional TiO₂ Nanofiber/Tube Membrane for Concurrent Water and Energy Production"</i>
3.00pm	Prof Zhang Qing, EEE, NTU <i>"Sensing Mechanism of Carbon Nanotube based NH₃ Detectors"</i>
3.30pm	Tea Break

	Chairperson: Prof Pey Kin Leong
3.50pm	Prof Kajsa Uvdal, LiU <i>"Functionalized Gd₂O₃ based Nanoparticles to be used for Biomedical Imaging"</i>
4.20pm	Prof Zhang Dawei, SPMS, NTU <i>"Protein Polarisation is critical to stabilise the Catalytic Core Domain of HIV-1 Integrase"</i>
4.50pm	Prof Shen Zexiang, SPMS, NTU <i>"Near-field Raman/Photoluminescence Imaging for Plasmonics and Nano Materials and Nanodevice Study"</i>
Parallel 2	Parallel Session: Systems and Computer related Science Venue: Lecture Room 1, NEC
	Chairperson: Prof Goh Wooi Boon
8.40am	Prof Vinod Prasad, SCE, NTU <i>"Low Complexity Dynamically Reconfigurable Uniform/Non-Uniform Digital Filter Banks for Multi-Standard Wireless Communication Receivers"</i>
9.10am	Prof Dake Liu, LiU <i>"Application Specific Instruction set Processors (ASIP) and its Applications"</i>
9.40am	Prof Huang Guangbin, EEE, NTU <i>"Extreme Learning Machine and Applications"</i>
10.10am	Prof Ramakrishna Kakarala, SCE, NTU <i>"Fourier Analysis of Permutations in Data"</i>
10.40am	Tea Break
Parallel 2	Parallel Session continues: Systems and Computer related Science Venue: Lecture Room 1, NEC
	Chairperson: Prof Goh Wooi Boon
11.00am	Prof Patrick Doherty, LiU <i>"Unmanned Aircraft Systems Research Activities at LiU"</i>
11.30am	Prof Son Hungsun, MAE, NTU <i>"Multi-DOF Electromechanical Spherical Motor and its Applications"</i>
12noon	Prof Yongki Go Tiau Hiong, MAE, NTU <i>"UAV Flight Dynamics & Control Research in NTU"</i>
12.30pm	Lunch
Parallel 2	Parallel Session continues: Systems and Computer related Science Venue: Lecture Room 1, NEC
	Chairperson: Prof Li Kwok Hung
1.30pm	Prof Lars Wanhammar, LiU <i>"Electronics Systems – From Algorithms to Hardware"</i>
2.00pm	Prof Ma Maode, EEE, NTU <i>"Mobility Support and QoS Provisioning in MESH/WiMax Networks"</i>
2.30pm	Prof Frederique Elise Oggier, SPMS, NTU <i>"Discrete Algebraic Transforms and Applications"</i>

3.00pm	Tea Break
3.30pm - 5.00pm	Lab tours @ NTU
5.00pm	End of Day 2 workshop
11 September (Friday) – Day 3	
Morning	Visit A*STAR (Imaging Centre, IMRE etc) Lab tours @ NTU
12.30pm	Lunch
2.15pm	Wrap Up Session @ Auditorium, NEC Prof Soh Yeng Chai, NTU Prof William Salaneck, LiU Concluding remarks by Rector Mille Millnert, LiU and Provost Bertil Andersson, NTU
	End of Workshop