Plenary Sessions

Presentation of Research Papers I
Venue: LT 31

Title	Time
Analysis of Biomaterials - Investigation of the Calcification of the Avian Eggshell Loh Xian Jun & Valiyaveettil, Suresh Department of Chemistry National University of Singapore	0915 – 0930
Spot Segmentation for Gene Microarray Images Vo Thi Thanh Giang & Deepu Rajan School of Computer Engineering Nanyang Technological University	0930 – 0945
Ad hoc Routing Protocols Interconnectivity Eu Zhi Ang, Winston Seah Khoon Guan & Tan Kean Soon School of Computing National University of Singapore	0945 – 1000

Presentation of Research Papers II
Venue: LT31

Title	Time
Text Database on Financial Publications and XML Lian Sze Wei & Kong Pe Hin, Hinny School of Electrical & Electronic Engineering Nanyang Technological University	1030 – 1045
Effect of Bromide on Disinfection By-Products Formation in Reclaimed Water Goh Voon Wei,Mark & Hu Jiang Yong Department of Civil Engineering National University of Singapore	1045 – 1100
Investigation of the Mechanical Properties of Micro Moulded Polymer Nanocomposites Components Raja Eulyndra bte Raja Khalif, Ong Nan Shing, Zhao J & Liu S L School of Mechanical & Production Engineering Nanyang Technological University	1100 – 1115

Parallel Sessions

Session A (Electrical, Electronics & Computer Engineering)
Venue: S16-03-04

Title	Time
Development and Implementation of Webcasting Server Chang Ee Chia,Clinton & Shum Ping School of Electrical & Electronic Engineering Nanyang Technological University	1130 – 1145
Rapid Hybridisation Using Electronic Microarray Chua Chin Sheng & Liu Aiqun School of Electrical & Electronic Engineering Nanyang Technological University	1145 – 1200
Improving Time to First Fix for GPS Receivers Low Zhen Ning & Law Choi Look School of Electrical & Electronic Engineering Nanyang Technological University	1200 – 1215
Novel Pressure Sensor and Integrated System for Balloon Angioplasty Pavitra Padmanabhan & Ashwin Khambadkone Department of Electrical & Computer Engineering National University of Singapore	1215 – 1230
Building a Remote Controlled Biomorph with Camera Tan Shin Jiuh & Prahlad Vadakkepat Department of Electrical & Computer Engineering National University of Singapore	1230 – 1245
Decision-tree Based Multiclass Classifier for Melanoma Recognition Yu Jiang & Ponnuthurai Nagaratnam Suganthan School of Electrical & Electronic Engineering Nanyang Technological University	1245 – 1300

Session B (Electrical & Computer Engineering)
Venue: S16-03-05

Title	Time
Enhanced Video Image Processing Fire Detection System Alvin Anwar, Sophie Liu Xiao Fan & Man Zhihong School of Computer Engineering Nanyang Technological University	1130 – 1145
Realtime Rendering for Computer Games Ang Aik Meng & Edmond C. Prakrash School of Computer Engineering Nanyang Technological University	1145 – 1200
Multiplayer Internet Gaming with VRML: A Relook S. Phong & Peter K.K Loh School of Computer Engineering Nanyang Technological University	1200 – 1215
Comparison of Representations for Facial Expression Recognition Song Wei & Surendra Ranganath Department of Electrical & Computer Engineering National University of Singapore	1215 – 1230
Applications of Dynamic Fuzzy Neural Networks in Biomedical Signal Processing Suryanti Yunita Anggrelly & Er Meng Joo School of Electrical & Electronic Engineering Nanyang Technological University	1230 – 1245
Watermarking of MPEG-4 Streaming Video Tran Nguyen Bao Anh, Ramakrishnan Sowmya & Sabu Emmanuel School of Computer Engineering Nanyang Technological University	1245 – 1300

Session C (Mechanical, Production Engineering & Computing)
Venue: S16-03-06

Title	Time
Conversion of Two Way Roads to One Way Roads Using Graph Theory Aw Yee Peng & Lew Sin Chye School of Mechanical & Production Engineering Nanyang Technological University	1130 – 1145
Information Extraction and its Applications in Web Searches Goh Hai Kiat & T S Chua School of Computing National University of Singapore	1145 – 1200
Scaling up Word Sense Disambiguation with Semi-supervised Learning Pham Thanh Phong, Ng Hwee Tou & Lee Wee Sun School of Computing National University of Singapore	1200 – 1215
Investigations into the Linux Virtual Memory Sub-System Teo Han Hui Eugene & Roland H C Yap School of Computing National University of Singapore	1215 – 1230
Fabrication and Characterization of Low Temperature Thin Film SOFC Wee Chen Chean, Khor Khiam Aik & Chan Siew Hwa School of Mechanical & Production Engineering Nanyang Technological University	1230 – 1245
Evaluation of the Accuracy of Thermal Cameras as SARS Monitoring Devices Wiryani Muljo, Wong Brian Stephen & Ng Yin Kwee School of Mechanical & Production Engineering Nanyang Technological University	1245 – 1300

Session D (Mechanical & Civil Engineering)
Venue: S16-03-09

Title	Time
Foot Sensors Implementation for a Humanoid Robot Du Min & Chew Chee Meng Department of Mechanical Engineering National University of Singapore	1130 – 1145
Verifying the Field of View Afforded to the Pilot Due to Cockpit Design and Aerodrome Design Parameters Khoo Aik Min Eugene & Lim Kee Yong School of Mechanical & Production Engineering Nanyang Technological University	1145 – 1200
Screening Co-aggregation Ability in Bacteria Isolated from Aerobic Granules Ng Jun Jie & Stephen Tay Tiong Lee School of Civil and Environmental Engineering Nanyang Technological University	1200 – 1215
4D CAD for Constructability Pei Chao & Chua Kim Huat, David Department of Civil Engineering National University of Singapore	1215 – 1230
Energy Recovery and Control of a Braking Mechanism Tan Yong Chuan, SK Chou & C Yap Department of Mechanical Engineering National University of Singapore	1230 – 1245
Evaluation of Recycled Waste Concrete in Asphaltic Hot-mix: Resilient Modulus Studies Yap Sim Lim, Wong Yiik Diew & Darren Sun Delai School of Civil and Environmental Engineering Nanyang Technological University	1245 – 1300

Session E (Sciences)
Venue: S16-03-03

Title	Time
Involvement of Mitochondrial Apoptotic Factors, Apoptosis-inducing Factor and Cytochrome C, in MPP+-induced Cell Death in MN9D Cells Guan Xue Li, Lim Tit Meng Faculty of Science, Life Sciences Programme National University of Singapore	1130 – 1145
Immunomodulatory and Anti-Viral Effects of Houttuynia Cordata J Vanitha & Tan Kwong Huat, Benny Faculty of Science, Life Sciences Programme National University of Singapore	1145 – 1200
Single Photon Spectrometer Peng Yuan Han & C Kurfsiefer Department of Physics National University of Singapore	1200 – 1215
The Evaluation of the Joint Distribution of Order Statistics Applied to Multiple Hypotheses Testing Lin Qi Feng & Kwong Koon Shing Faculty of Science, SPS/USP Programme National University of Singapore	1215 – 1230
Inclusion of 13-cis Retinoic Acid Into Cyclodextrins: Phase Solubility, Photostability Study and Physicochemical Characterization Yap Kai Lee & Ho Chi Lui, Paul Department of Pharmacy National University of Singapore	1230 – 1245
Identification of Vaccine Candidate Antigens of Klebsiella Pneumoniae by Serum Proteome Analysis Teh Boon King & Poh Chit Laa Faculty of Science, Life Sciences Programme National University of Singapore	1245 – 1300

National University of Singapore
School of Computing

Title	Poster No
The Age of Phalanx: Hierarchical Simulation Model for Computer Games in Ancient Warfare Huang Xin & Chang Ee-Chien School of Computing National University of Singapore	1
Creating a Generic DB X-Framework for Generating DB Access Class Libraries Vu Tung Lam & Stan Jarzabek School of Computing National University of Singapore	2
Ogg Vorbis Stream Analysis Zhu Jia & Wang Ye School of Computing National University of Singapore	3

Faculty of Engineering

Title	Poster No
Use of Array-Pro for Biochip Applications Low Hooi Ping,Diana & Zhang Yong Division of Bioengineering National University of Singapore	4
Application of Local Seaweeds for Metal Removal Ng Hua Qin & Chen Jiaping Department of Chemical & Biomolecular Engineering National University of Singapore	5
Automatic Alignment of 3-D Dental Models Chen Lihao, Ong Sim Heng & Kelvin Foong Department of Electrical & Computer Engineering National University of Singapore	6
Development of Whiteboard Applet Sumedh Chalermkanjana & TT Tay Department of Electrical & Computer Engineering National University of Singapore	7
Imaging of Rat Neural Cells Using TEM Ho Si Yu, Lim Chwee Teck & Xu Xiaojing Department of Mechanical Engineering National University of Singapore	8
Testing the Effects of Off-Center Impacts on the Ballistic Performance of High Strength Fabrics Lau Yong Zhi & Vincent Tan Department of Mechanical Engineering National University of Singapore	9

Faculty of Science

Title	Poster No
Toxicity of Crotalaria spectabilis and Cassia alata L. against Tribolium castaneum (Herbst) and Sitophilus zeamals Motsh. Chiang Cern Cher, Samuel & Ho Shuit Hung Department of Biological Sciences National University of Singapore	10
Economic Burden of Cerebrovascular Disease Yap Kwong Hsia & Chew Fook Tim Department of Biological Sciences National University of Singapore	11
Theoretical Study of Potassium Cation Affinities of Proline (Pro) and O-Methylated Proline (OMe-Pro) in the Gas Phase Kong Jeng Chien & Loh Kian Ping Department of Chemistry National University of Singapore	12
Raman Investigation of Cobalt Ferrite Thin Films Grown by RF Sputtering and PLD Wong Choun Pei & Shen Ze Xiang Department of Physics National University of Singapore	13
Determination of Density and Porosity of Bread Foong Miau Jiun & Zhou Weibiao Faculty of Science, Food Science & Technology Programme National University of Singapore	14
Optimising the Wheat Rehydration Condition by Surface Respond Method Lew Wan Peng & Zhou Weibao Faculty of Science, Food Science & Technology Programme National University of Singapore	15

Nanyang Technological University
School of Civil & Environmental Engineering

Title	Poster No
Evaluation of Recycled Waste Concrete in Asphaltic Hot-mix: Creep Characteristics Studies Goh Cher Hon, Wong Yiik Diew & Darren Sun Delai School of Civil and Environmental Engineering Nanyang Technological University	16
Methods to Reduce Leaching from Cement Mortar Lining in Newly-Laid Water Mains Pham Huy Phuong, Chui P.C. & Wong S.F. School of Civil and Environmental Engineering Nanyang Technological University	17

School of Computer Engineering

Title	Poster No
A Novel Algorithm to Implement Low-Complexity Digital Filters for Software Defined Radio Channelizers Ferdinan Widjaja & A. P. Vinod School of Computer Engineering Nanyang Technological University	18
A VRML-Based Multiplayer Game for Entertainment and Education Klarinda Gunadi Widjanarko & Loh Kok Keong, Peter School of Computer Engineering Nanyang Technological University	19
Performance Evaluation of Computer Systems Koh Keng Leong Terence & Sabu Emmanuel School of Computer Engineering Nanyang Technological University	20
Foreign Object Detection Algorithm Tan Ming Ren, Corey Chong Sheng Jiat, Chew Seet Hong & Sophie Liu Xiao Fan School of Computer Engineering Nanyang Technological University	21

School of Electrical & Electronic Engineering

Title	Poster No
A Low Power Low Voltage Bang-bang Control Class D Amplifier Ge Tong & Chang, Joseph Sylvester School of Electrical & Electronic Engineering Nanyang Technological University	22
Design of a UWB Monopole Antenna Reuben Johannes & Shen Zhongxiang School of Electrical & Electronic Engineering Nanyang Technological University	23
Tracking of a Human Using a Laser Range Measurement System Shi Wen & Wijerupage Sardha Wijesoma School of Electrical & Electronic Engineering Nanyang Technological University	24
A Low Power Low Voltage Class D Amplifier Based on First-Order Sigma-Delta Modulator Shu Wei & Chang, Joseph Sylvester School of Electrical & Electronic Engineering Nanyang Technological University	25
Routing/Handover In Hybrid Wireless Networks Vo Thi Minh Tam & Soong Boon Hee School of Electrical & Electronic Engineering Nanyang Technological University	26

School of Mechanical & Production Engineering

Title	Poster No
Developing a Non-Invasive Sphygmomanometer Chua Bian Guan, Shu Jian Jun & Nguyen Nam Trung School of Mechanical & Production Engineering Nanyang Technological University	27
IR Imaging As a First Defence Mass Screening Tool for Potential SARS Subjects Kee Ein Cern & Ng Yin Kwee Eddie School of Mechanical & Production Engineering Nanyang Technological University	28
Development of a Microfluidic Cytometer with Optical Detection Sumantri Lassemono & Nguyen Nam Trung School of Mechanical & Production Engineering Nanyang Technological University	29
Material Characterization Using Nanoindentation Technique Wan Elsa & Sridhar Idapalapati School of Mechanical & Production Engineering Nanyang Technological University	30