PROGRAMME

0815h	Registration		
0845h	Guests and Students to be seated		
0900h	Arrival of Guest-of-Honour		
0905h	Address by Guest-of-Honour		
0915h	Presentation of Research Papers I		
1000h	Tea Reception cum Poster Exhibition		
1030h	Presentation of Research Papers II		
1115h	Presentation of Certificates to Participants		
1130h	Parallel Sessions		
	Session A: Civil, Environmental & Mechanical Engineering @ LT12		
	Session B: Electrical & Electronic Engineering @ LT15		
	Session C: Sciences @ LT16		
	Session D: Computing & Computer Engineering @ LT17		
	Session E: Biomedical & Life Science @ LT18		
1300h	End of Congress		

Plenary Sessions

Presentation of Research Papers I	Venue: LT2
Title	Time
Dynamics of Sport Climbing Yap YH, Fuss FK School of Mechanical and Production Engineering Nanyang Technological University	0915 -0930
Quantum Cryptography in Noiseless and Noisy Environment Lim Jenn Yang, Kaszlikowski, Dagomir Faculty of Science, SPS/USP National University of Singapore	0930 - 0945
A Feasibility Study of Bio-opto-DNA Array Detection with Particle Fang Xiaoqin, Liu Aiqun School of Electrical and Electronic Engineering Nanyang Technological University	0945 - 1000

Presentation of Research Papers II	Venue: LT2
Title	Time
Enhancing, and Implementing the SNOOP Protocol in LINUX Indradeep Biswas, Ananda A L School of Computing National University of Singapore	1030 – 1045
A Novel Ribosomal-based Method for Studying the Microbial Ecology of Environmental Engineering Systems Tao Y, Tay ST Lee & Volodymyr I School of Civil and Environmental Engineering Nanyang Technological University	1045 – 1100
FPGA implementation of High speed FIR Digital Filters Shi Ting Jia, Lian Yong Department of Electrical & Computer Engineering National University of Singapore	1100 – 1115

Parallel Sessions

Ses	ssi	o	n	Α

Session A Civil, Environmental & Mechanical Engineering	Venue: LT12
Title	Time
Permeability of Lightweight Aggregate Concrete Kho Chen Chung, Zhang Min Hong Department of Civil Engineering National University of Singapore	1130 – 1145
Characterization of p-ntrophenol Degrading Aerobic Granules Ken F, Tay STLee School of Civil and Environmental Engineering Nanyang Technological University	1145 – 1200
Mechanical Model of the Finger See WN, Fuss FK School of Mechanical and Production Engineering Nanyang Technological University	1200 – 1215
Solidification of Industrial Waste Sludge with Incineration Fly Ash and Ordinary Portland Cement Ong CY, Chui PC School of Civil and Environmental Engineering Nanyang Technological University	1215 – 1230
Sonic Rain Gauge Ng WC, Shu JJ, Nguyen NT School of Mechanical and Production Engineering Nanyang Technological University	1230 – 1245
Modeling and Predicting Material Damage Using SIFT Ngau Shu Mei, Candice, Vincent Tan Department of Mechanical Engineering National University of Singapore	1245 - 1300

Session B Electrical & Electronic Engineering	Venue: LT15
Title	Time
Virtual Pictionary for Visually Handicapped Gan Theng Kiong, Shum Ping School of Electrical and Electronic Engineering Nanyang Technological University	1130 – 1145
Bipolar Current Source Applying to Cascade Double Γ-CL CSRI Wan Jingzhuo, Luo Fang Lin School of Electrical and Electronic Engineering Nanyang Technological University	1145 – 1200
Investigations on a Novel Microwave Transmission Line using MATLAB Pham Quoc Hung, Sheel Aditya School of Electrical and Electronic Engineering Nanyang Technological University	1200 – 1215
Online Optics Lab Bahar Riand Passa, Shum Ping School of Electrical and Electronic Engineering Nanyang Technological University	1215 – 1230
Eye Gaze Estimation Using Clustering Techniques Chilgunde Amit Chandrakant, Surendra Ranganath Department of Electrical & Computer Engineering National University of Singapore	1230 – 1245

Session C

Sciences	Venue: LT16	
Title	Time	
Proteomic Elucidation of Molecular Mechanisms Regulating Gonadotrope Differentiation and Function	1130 – 1145	
Feng JiaJun, Melamed, Philippa Department of Biological Sciences		

National University of Singapore	
Pectin Esterase Activity in Soursop (Anona muricata) Juice Lo Hui Ling, Perera, Conrad Oswald Department of SPS/USP National University of Singapore	1145 – 1200
Development of a Real-Time Polymerase Chain Reaction (PCR) Assay using Hybridisation Probes to Detect the Fungus Aspergillus Chong Wai Yin, Cheung Nam Sang Department of Life Sciences National University of Singapore	1200 – 1215
Effects of Forest Disturbance on Ant Diversity in Singapore Chong Chee Seng, Li Daqin Department of SPS/USP National University of Singapore	1215 – 1230
Development of CARS Spectroscopy for the Studies of Transient Molecules Wong Ling Keong, Fan Wai Yip Department of Chemistry National University of Singapore	1230 – 1245
Ambient Exposure to Specific Allergenic Components Tan Chia Chia, Stephanie, Chew Fook Tim Department of Biological Sciences National University of Singapore	1245 - 1300

Session D

SCSSION B	
Computing & Computer Engineering	Venue: LT17

Computing & Computer Engineering	Venue: L11/
Title	Time
Enabling Wirless Communication in Construction Management System Liu Yanxiang, Yow Kin Choong School of Computer Engineering Nanyang Technological University	1130 – 1145
Image Watermarking Robust to Geometric Transformation Dai Ke, Chang Ee Chien School of Computing National University of Singapore	1145 – 1200
Searching for Multimedia News on the Web Neo Shi Yong, Chua Tat Seng School of Computing National University of Singapore	1200 – 1215
ROHC - Signaling Compression Choo Fai Cheong, Winston Seah School of Computing National University of Singapore	1215 – 1230
3D Solid Modelling and On-line e-tutorials Development for Engineering Drawing Mauree Kevindran Pillay, Lee Kim Seng Department of Mechanical Engineering National University of Singapore	1230 – 1245
Image Processing Software to Detect Defects in Glass Chong MWT, Wong BS School of Mechanical and Production Engineering Nanyang Technological University	1245 - 1300

Session E

Biomedical & Life Science	Venue: LT18
Title	Time
Early Detection of Cancers Dang Dinh Tuan, Er Meng Joo School of Electrical and Electronic Engineering Nanyang Technological University	1130 – 1145

Development of an Intelligent System for Classifying Mammographic Masses Victor Putra Lesmana, Er Meng Joo School of Electrical and Electronic Engineering Nanyang Technological University	1145 – 1200
Characterization of Microchannel Materials for Biochip Developmet Diana H, Yang CC School of Mechanical and Production Engineering Nanyang Technological University	1200 – 1215
Protein Encapsulation using U.V PEG Hydrogels Ng WB, Chan BE School of Mechanical and Production Engineering Nanyang Technological University	1215 – 1230

1245 - 1300
1243 - 1300

Poster Sessions

Nanyang Technological University

Mechanical and Production Engineering

Characterisation of the Confocal Profilometer Jagannathan S, Anand KA School of Mechanical and Production Engineering Nanyang Technological University	Poster 1
Programming Self-Recovery in the Humanoid Leong TX, Yap KT School of Mechanical and Production Engineering Nanyang Technological University	Poster 2
Synthesis and Characterization of Novel pH Stimuli Responsive Block Copolymers Sarkkunan V, Tam KC School of Mechanical and Production Engineering Nanyang Technological University	Poster 3
3D-Kinematics of Biological Joints Swandito, Fuss FK School of Mechanical and Production Engineering Nanyang Technological University	Poster 4
Dendritic Solidification using Phase-Field Method Yang Y, Tan FL School of Mechanical and Production Engineering Nanyang Technological University	Poster 5

School of Electrical and Electronic Engineering

Mobile Robot Navigation Using Dynamic Fuzzy Q-Learning Tao Meng, Er Meng Joo School of Electrical and Electronic Engineering Nanyang Technological University	Poster 6
Bipolar Voltage Source Applied to a Hybrid Multilevel Inverter Si Li Rong, Luo Fang Lin School of Electrical and Electronic Engineering Nanyang Technological University	Poster 7
Segmentation of Breast Cancer Mass in Mammograms and Detection Using Magnetic Resonance Imaging Yao Yao, Er Meng Joo School of Electrical and Electronic Engineering Nanyang Technological University	Poster 8
Biometric-based Security Techniques for Internet-based Commerce Applications Singh Gurdeep, Mohammed Yakoob Siyal School of Electrical and Electronic Engineering Nanyang Technological University	Poster 9
PDA Anywhere Teoh Hock Huat, Shum Ping School of Electrical and Electronic Engineering Nanyang Technological University	Poster 10
Analysis of DNA by Optical Techniques Nai Wun Siong, Shum Ping School of Electrical and Electronic Engineering Nanyang Technological University	Poster 11

School of Civil and Environmental Engineering

Assessment of Structural Response To Long-Distance Sumatra Earthquakes Using A GIS Platform Ong C, Pan TC School of Civil and Environmental Engineering Nanyang Technological University	Poster 12
Assessment Of Site Response To Long-Distance Sumatra Earthquakes Aung Aung MW, Pan TC School of Civil and Environmental Engineering Nanyang Technological University	Poster 13

School of Computer Engineering

A VRML 2.0 Virtual World Yu Tian, Loh Kok Keong School of Computer Engineering Nanyang Technological University	Poster 14
Adaptive Spread Spectrum Based Watermarking of Speech Shilpa Arora, Sabu Emmanuel School of Computer Engineering Nanyang Technological University	Poster 15

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School of Computing

Air Combat Simulation Using OpenGL Gao Jiong, Huang Zhiyong School of Computing National University of Singapore	Poster 16
DCT-Based Image Steganalysis and Stegnography Tan Su Chiang Aaron, Chang Ee Chien School of Computing National University of Singapore	Poster 17
Investigation of TCP Performance over GPRS using Seawind Emulator Wang Yu, Lillykutty Jacob School of Computing National University of Singapore	Poster 18

Faculty of Science	
Developmental Roles of Nuclear Receptors Quek Sue Ing, Chan Woon Khiong Department of Biological Sciences National University of Singapore	Poster 19
Fourier Transform Infrared Spectroscopy of Free Radicals in Liquids and Gases Cheng Kum, Royston, Fan Wai Yip Department of Chemistry National University of Singapore	Poster 20
Electrochemistry of Pt/Pd-Based Macrocycles Teo Peilli, Hor Tzi Sum, Andy Department of Chemistry National University of Singapore	Poster 21
Understanding the Composition and Formation of Coral Reefs Tiang Weileen, Valiyaveettil, Suresh Department of Chemistry National University of Singapore	Poster 22
Interaction of Chalcones with Ferriprotoporphyrin IX Lee Mei Shan, Elena, Go Mei Lin Department of Pharmacy National University of Singapore	Poster 23
Detection of Dopamine in MN9D cells Guan Xue Li, Lim Tit Meng Department of Life Sciences National University of Singapore	Poster 24

Faculty of Engineering

Safety Management Mok Shing Chi, Chua Kim Huat Department of Civil Engineering National University of Singapore	Poster 25
Crude scheduling in refinery operations Arief Adhitya, Rajagopalan Srinivasan Department of Chemical & Enviromental Engineering National University of Singapore	Poster 26
Biomimetic Membrane: Response to Propanol & Transmembrane Impedance Deng Da, N. Kocherginsky Department of Chemical & Enviromental Engineering National University of Singapore	Poster 27

A Qualitative Study of Acoustic Environment Simulation using Headphones Eng Chia Wee, Hari K Garg Department of Electrical & Computer Engineering National University of Singapore	Poster 28
Performance Analysis of Space Vector Modulation Lim Shu Fan, Ashwin Khambadkone Department of Electrical & Computer Engineering National University of Singapore	Poster 29
Web-based E-Tutorials Development for Engineering Visualization Cheryl Krishnasamy, Lee Kim Seng Department of Mechanical Engineering National University of Singapore	Poster 30

Mechanical Properties of Nanostructured Mg-5wt%Al Alloy Mohammad Jawahir Bin Samuri, Lu Li Department of Mechanical Engineering Poster 31 National University of Singapore

Proceeding

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Underwater Acoustic Data Communication Chan CM, Wong BS

A Study of a Displacement Amplifier Chee KW, Ooi KT

Image Processing Software to detect Defects in

Chong MWT, Wong BS

Determination of Polymerization Rate (Monomer Conversion) by Spectroscopic Methods in the Present of Drugs Christopher I, Chan BE & Lim CS

Studies on Freezing Time of Foodstuffs Chua MY Tan FI

Characterization of Microchannel Materials for Biochip Developmet Diana H, Yang CC

Static Analysis of Self-Recoverable Humanoid

Eng YK, Yap KT

Solving Linear Equations by Integrating SOR with Evolutionary Algorithm Hendri H, Tai K

Characterisation of the Confocal Profilometer Jagannathan S, Anand KA

Freezing of Biological Tissues Kansal K, Tan FL

Lubrication of a Ball Bearing: A Review

Study of Biodegradation of Polyesters Kow RP, Chan BE

Programming Self-Recovery in the Humanoid Leong TX, Yap KT

Energy Dissipation and Evolution of the Young's Modulus of Martensitic NITI Shape Memory Alloy Wire upon Cyclic Loading Lim KH, Huang WM

Automation of Ultrasonic Testing Procedures Liim PK, Wong BS

Effect of Bone Density On the Mechanical PropertiesOf Human Bone (Vertebra Trabecular) Ling HY, Tan SH

Pulse Tube Refrigerator Muhammad I, Ooi KT

Automated Anorectal Lymph Node Sampler Nguyen HP, Ng WS

Protein Encapsulation using U.V PEG Hydrogels No WB. Chan BE

Sonic Rain Gauge Ng WC, Shu JJ & Nguyen NT

Analysis of Material using Digital Radioscopy Ramakrishnan B, Wong BS

ote Signal Acquisition and Interface unit for Focal Ultrasound Surgery Procedures Sachdeva M, Chauhan S

Synthesis and Characterization of Novel pH Stimuli Responsive Block Copolymers Sarkkunan V. Tam KC

Mechanical Model of the Finger See WN. Fuss FK

Solution Behavior of Novel pH and Temperature Responsive Block Copolymers (I) Sneharaj M, Tam KC

3D-Kinematics of Biological Joints Swandito, Fuss Fl

Thread Locking Device for Handling Thread at Flexible Endoscopy Syed A, Gong F

Investigations on Laser Forming Tai CC, Yeo SH & VP Radhakrishnan

Remote Signal Acquistion and Signal Processing for Focal Ultrasound Surgical Procedures Varshneya S, Chauhan S

Development of an Ultrasound Sensor for High Energy Medical Applications Vishwanath R, Chauhan S

Dendritic Solidification using Phase-Field Method Yang Y. Tan FL

Dynamics of Sport Climbing Yan YH, Fuss FK

School of Electrical and Electronic Engine

Dielectric Behavior of Porous Silicon with Interface Contribution Zhang Xu, Sun Changging

Design InGaAs/GaAs Quantum Well Laser Emitting at 980 nm Gao Changhong, Fan Weijun

Comparison on the Breakdown Voltage Testing of High Power Semiconductor Devices Marco, Tan Cher Ming

Synthesis of Hardware Efficient FIR Filter Coefficients Nazimudeen Naveen, Chang Chip Hong

Design of Adaptive Recursive Filters with Guaranteed Stability Zhou Yi, Li Gang

Study of Spread Spectrum Communication Systems using MATLAB Wang Xiaoying, Vimal Kishore Dubey

Power Line Communications

Wei Weiqi, Tan Soon Yim

Design of A Dipole Antenna by Using Computer

Nguyen Tran Thanh Binh, Hui Hon Tat

A Virtual Real Rbbot Model for Laser Processing Yeo Yong Kiang, Rajagopalan Devanathan

Comparison of TDMA and CDMA Air Interfaces for Cellular Systems Wong Ngee Hui, Chong Han Joo Peter

Telemedicine Application Hendra Wirawan, Krishnappa R Subramanian

Nano-structures Fabricated by Vapor Phase

Transportation Yang Yi, Sun Xiaowe

Porous Alumina by Anodization Zhang Xiaosong, Sun Xiaowei

Generating Petri net Models for Basic Java

Aye Thu Aung, Kong Pe Hin, Hinny **Constant Current Stress of Ultrathin Gate**

Dielectrics Sun Yuan, Pev Kin Leong

Investigation of ESD Issues During Stressing of MOSFET Devices Seah Chian Jiunn, Pey Kin Leong

Mobile Robot Navigation Using Dynamic Fuzzy Q-

Tao Meng, Er Meng Joo

Survey of Automotive Radar Technologies Wang BaiZhuo, Fu Shiang, Jeffrey

Investigation of Internet Security Protocols

Krishnan Aditya, Chua Hock Chuan

Location Based Services for mobile devices Bandyopadhyay Debarshi, Chua Hock Chuar

Implementation of a Drug Delivery Control System Wong Chang Lung, Zhu Kuany

E-Learning System Developm Tao Dayong, Ma Maode

Development of an Intelligent System for Classifying Mammographic Masses Victor Putra Lesmana, Er Meng Joo

Intelligent Lift Monitoring System Niu Zhiqiang, Ling Keck Voon

Re-configurable Embedded Control System **Design**Chin Kok Shyang, Ling Keck Voon

Free Space Optics (FSO) Links in Singapore: Scintillation Effects

Ananda Ekaputera Sidarta, Ong Jin Teong

Development of an Integrated Multi-band Antenna for GSM and GPS Applications Zhai Kingwei, Shen Zhongxiang

Modeling and Simulation of Fast 2-D DCT

Sharma Udit, Chang Chip Hong

Digital Video Watermarking of MPEG Data rayan Adi Lakshmi, Ho Tung Shuen, Anthony

Digital Audio Watermarking of MP3 and WAV Neoliya manish, Ho Tung Shuen, Anthony

Investigations on a Novel Micro **Transmission Line using MATLAB** Pham Quoc Hung, Sheel Aditya

Super-Lift DC/DC Converter Zhang Lesheng, Luo Fang Lin

Bipolar Current Source Wan Jingzhuo, Luo Fang Lin

Bipolar Voltage Source Applied to a Hybrid Multilevel Inverter Si Li Rong, Luo Fang Lin

Curve Fitting Thermal Data using Simulated

Annealing Algorithm Lock Hun Yi, George Chung Kit Chen Segmentation of Breast Cancer Mass in

Mammograms and Detection Using Magnetic Resonance Imaging Yao Yao, Er Meng Joo

Computer-aided Design of Microwave Amplifiers Based on Real Frequency Data Unni Vineet, Tan Eng Leong

Biometric-based Security Techniques for Internetbased Commerce Applications Singh Gurdeep, Mohammed Yakoob Siyal

Mobile Commerce Applications Development Bui Hung Dao, Kong Pe Hin, Hinny

Mobile Commerce Database Development Kapilesh Krishna Kumar Taneja, Kong Pe Hin, Hinny

Techniques for Analyzing and Modeling Internet

Nguyen Viet Anh, Tan Yap Pena

Why Things Fail: A Study of Network Reliability Gao Yuan, Tsai Flora S

Locating and Tracking a Weather Balloon using

Parthasarathi Rishikesh, Wijerupage Sardha Wijesoma

Design of a Minimum Instruction Set Microcontroller for Evolvable Fuzzy Hardware Satzoda Ravikumar, Lim Meng Hiot

Investigation of Dynamic Braking of Electric Vehicles Powered by Induction Motor Jon Polili Lie, Tseng King Jet

Filter Design for PWM Inverters Kamarudin B Khalid, Tseng King Jet

The Design and Analysis of a Multiplierless Finite Impulse Response Filter Lee Ha Wei, Gwee Bah Hwee

Study of Multicarrier Modulation Xia Jianyun, Gui Xiang

PDA Anywhere Teoh Hock Huat, Shum Ping

Virtual Pictionary for Visually Handicapped Gan Theng Kiong, Shum Ping

A Feasibility Study of Bio-opto-DNA Array **Detection with Particle** Fang Xiaoqin, Liu Aigur

From Fireflies to Organic Light-emitting devices

Investigation of Silicon Carbide Based Hall Tan Lay Im, Rusli

Reuseable EJB Software Components Goela Rahul, Chen Lihui

RTSP-based Video Streaming System Xu Xiaotian Chen Lihui

Robust Digital Watermarking of Images Wang Lina, Ho Tung Shuen, Anthony

A Web Application for Solving Quadratic Assignment Problems Li Xuejun, Lim Meng Hiot

Early Detection of Cancers Using Magnetic Resonance Imaging and Positron Emission Tomography -- Part 2 Dang Dinh Tuan, Er Meng Joo

Mobile Commerce Server Development Nguyen Ha Trung, Kong Pe Hin, Hinny

Mobile Robot Navigation Using Fuzzy Reinforcement Learning--Part 2 Bui Mai Lan, Er Meng Joo

Efficient Computation of Network Reliability Nguyen Trung Tu, Tsai Flora S

Graphic Interface Design for Simuation Software Van Vu Kim Ngan, Ma Maode

Simulation Study on MAC Protocols for Wireless Networks by simulation Cai Degin, Ma Maode

Analysis of DNA by Optical Techniques Nai Wun Siong, Shum Ping

Aspects of Brain Mapping Ding Yu, Ponnuthurai Nagaratnam Suganthan

Online Optics Lab Bahar Riand Passa, Shum Ping Low Power Low Distortion Digital Class D

Amplifier Design Kwa See Hwei@ Sigit Purnomo, Gwee Bah Hwee

Low Power Asynchronous Circuit Design Lee Yong Yeow, Gwee Bah Hwee

Mechanical and Electronic Design of an Indoor Mobile Robot Platform Lee Chung Hong, Andy, Martin David Adams

Optical Gain Study on InGaAs/GaAs Quantum

Ong Hui Young, Fan Weijun

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A Novel Ribosomal-based Method for Studying The Microbial Ecology of Environmental Engineering Systems
Tao Y, Tay STLee & Volodymyr I

Solidification of Industrial Waste Sludge With Incineration Fly Ash And Ordinary Portland

Ong CY, Chui PC

Characterization Of p-ntrophenol Degrading **Aerobic Granules** Ken F, Tay STLee

Assessment Of Structural Response To Long-Distance Sumatra Earthquakes Using A GIS Platform

Ong C, Pan TC

Assessment Of Site Response To Long-Distance Sumatra Earthquakes Aung Aung MW, Pan TC

Incineration Ash-based Asphalt Concrete
Neo HM, Chui PC & Wong YD

Incineration Ash-based Asphalt Concrete Wee HP, Chui PC & Wong YD

Effect Of Computational Grid Size On Manning s Roughness Coefficient Liu X, Wong TSW

Leaching Of Cement Lining In Newly-Laid Water

Leow BH, Wong SF

Leaching Of Cement Lining In Newly-Laid Water Mains

Ong TC, Wong SF

MSW Incineration Bottom Ash-based Lightweight Concrete Chua WL. Chui PC

Incineration Bottom Ash As Raw Materials For Concrete Products Gan KS, Chui PC

Diversity In Oxygenating Utilization Kinetics Of Bacteria Isolated From Phenol-Degrading Aerobic Granules

Phua CL, Tay STLee

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PC Based ECG Monitoring System Foh Chit Horng, Choo Tien Weay, Sriskanthan Nadaraiah

Enabling Wirless Communication in Construction Management System

Liu Yanxiang, Yow Kin Choong

A VRML 2.0 Virtual World Yu Tian. Loh Kok Keong

Adaptive Spread Spectrum Based Watermarking

Shilpa Arora, Sabu Emmanuel

A Two-player VRML Mobile Game Zhu Bo, Loh Kok Keong

Voxture Map for Bricks_walls K E Boey, Edmond C Prakash

A WSDL File-sharing Application Liu Mina, Loh Kok Keona

Hardware Specifications for Bio-algorithms Tang Chin Yong, Loh Kok Keong

Monitoring of Grid Resources N Khandelwal, Lee Bu Sung

A Circulr Formulation of the Prime Length DHT Kernal and Its FPGA Implementation Neha Kumar, Atul Jhavar, T Srikanthan

Java Game Development for Personal Computers and Mobile Devices
Le Nguyen Q K, Hui Siu Cheung

Avatar and weapon design for a two player VRML

realtime shooting game Jin Jun, Loh Kok Keong

Java Applet Based Generic User Interface for CD

Ren ke, Xiao Xiong, Lee keok kee National Institute of Education

A Comparative Study On Aestivation In The African Lungfish Protopterus Dolloi (Dipnoan) And The Swamp Eel Monopterus Albus (Teleost) Desmond Cheong Weng San, Chew Shit Fun

The Swamp Eel, Monopterus Albus, Avoid Ammonia Toxicity During Aestivation In The Mud By Suppression Of Endogenous Ammonia Production With No Increase In Glutamine Gan Jumi. Chew Shit Fun

The African Lungfish, Protopterus Dolloi, Reduces Ammonia Production And Increases The Rate Of Urea Synthesis To Detoxify Endogeneous Ammonia During Aestivation Kong Yuit Chan Noelle, Chew Shit Fun

Identification Of Cultured Pearls And Pearl **Imitations Using Spectroscopic Techniques** Siti Juliana Binte Khairoman, Augustine Tan TL

Spectroscopic Studies On Natural, Synthetic And Simulated Rubies

Low Yee Ching, Augustine Tan TL

National University of Singapore

School of Computing

Voice Agents Chen Yan, Lua Kim Teng

Chinese Pinyin to Chinese Character Conversion Chia Li Shi, Lua Kim Teng

ROHC - Signaling Compression

Analyzing Resource Competition on an Operating

Cung Thai Son, Tay Yong Chiang

Image Watermarking Robust to Geometric Transformation

Dai Ke, Chang Ee Chien

Learning and Interacting in Distributed 3D Virtual Worlds

Du Sichao, Chee Yam San

Clustering with Uncertainty Feng Liangzhu, Anthony Tung

A Statistical Approach To Post Processing of Speech Recognition Output Fong Wee Teck, Lua Kim Teng

Air Combat Simulation Using OpenGL Gao Jiong, Huang Zhiyong

Transportation Bid Analysis Optimization with Sniper Input

Guo Yunsong, Lim Leong Chye, Andrew

Enhancing, and implementing the SNOOP protocol in LINUX Indradeep Biswas, Ananda A L

Design and Implementation of a Live TV Server Using Open-Sourced Tools Jimmo Barrion Petisme, Lua Kim Teng

Corpus-Based Machine Transliteration

A Simple English to Chinese Translation Web

Low Chin Hong, Lua Kim Teng Searching for Multimedia News on the Web

Neo Shi Yong, Chua Tat Seng

Converting of Sentences to SQL Ng Chew Yen, Lua Kim Teng

Applying Dynamic Markov Modelling to Chinese Texts for Data Compression Ng Jun Ping, Ong Ghim Hwee

Computer Supported Cooperative Work Ng We Yuan, Pung Hung Keng

Finding Motifs in RNA Sequences Ou Chung Kid Thomas, Sung Wing Kin, Ken

Linux Loader (LILO) Internals Pao Wee Boon, Chionh Eng Wee

Overview, Analysis and Simulation of Grover's Quantum Database Search Alogrithm Rameez Ansar, Kuldip Singh

Enhancing the Security in Linux with General Capabilities
Shen Ren, Y Hock Chuan, Roland

Study and Implementation of Routing Protocols in Ad hoc Networks Sourabh Sharma, Sandeep Kumar

Mandarin Text-To-Speech Synthesis System

Tan Keng Siang, Joseph, Lua Kim Teng

DCT-Based Image Steganalysis and

Stegnography
Tan Su Chiang Aaron, Chang Ee Chien

Enhancement to Yard Consolidation System Wang Dong, Leong Hon Wai

Investigation of TCP Performance over GPRS using Seawind Emulator Wang Yu, Lillykutty Jacob

Agent based Software Engineering Methodologies Wong Keng Onn, Bimlesh Wadhwa

Image Encoding Based On Finite Automata Methods for Real-Time Communications Yang Kai, Ong Ghim Hwee

A Scripting Language For Processing Streaming

Zhu Tao, Ooi Wei Tsang

Faculty of Science

A Comparison of Plasma Protein Profiles Among Individuals with Coronary Artery Diseases and Healthy Controls Using the Protein Chip

Technology Afizah Bte Mohd Hassan, Chew Fook Tim

Bioactivities of Pepper Extract and Garlic Oil on Tribolium castaneum (Coleoptera: Tenebrionidae) and Sitophilus zeamais (Coleoptera: Curculionidae)

Chew Jia Zhen, Geraldine, Ho Shuit Hung

Biodiversity and Distribution of Molluscs in a Semi-enclosed Marina Choong Tsern Hoong, Calvin, Chou Loke Ming

Proteomic Elucidation of Molecular Mechanisms Regulating Gonadotrope Differentiation and

Feng JiaJun, Melamed, Philippa

Occurrence and Distribution of Primary Freshwater Molluses in Singapor Gopalasamy Reuben Clements, Li Daiqin

Effect of Salinity Changes, Ammonia Exposure or Environmental Hypoxia on the Excretory Nitrogen Metabolism in the Telescope

Creeper Snail Telescopium Telescopium Hiong Kum Chew, Ip Yuen Kwong

Antioxidants in Asian Leafy Greens H'ng Shiau Chen, Ong Bee Lian

Effects of Siliceous Slag and Organic Fertilizers on Leaf Yellowing in Xiaobaicai (Brassica Chinensis)

Ho Qi Hui, Felicia, Ong Bee Lian

NHE 1 Expression and Drug Resistance in Tumor Cells Ismail Muhamad Hanif, Pervaiz, Shazib

The Behaviour of Manatees and a Dugong in Captivity
Jani Thuaibah Isa Tanzil, O'riordan, Ruth Mary

Behaviour Patterns of Carnivores in Singapore

Zoo/Night Safari King Sheau Horng, O'riordan, Ruth Mary

Expression of Neuropilin-2 (NRP-2) in Zebrafish Embryonic Development Leow Li Ting, Ge Rouwen

Nitrogen Metabolism in the Swamp Eel Lim Chiat Koo, Ip Yuen Kwong

Effects of Cerium and Lanthanum on Arabidopsis Thaliana Lim Chien Fang, Loh Chiang Shiong

The Ecology of Flying Lemurs in Singapore Lim T-Lon, Norman, Ng Kee Lin, Peter

Effects of 12 h Dark or 12 h Light on the Biochemistry of the Giant Clam Tridacna

Loong Ai May, Ip Yuen Kwong

Post-havest Physiology of Brassica Chinensis Var. Parachinensis Stored at Different Temperatures Mas Elfie Jaar Bin Arshad, Ong Bee Lian

Antioxidants in Asian Leafy Greens Mas Elfie Jaar Bin Arshad, Ong Bee Lian

Reproduction of Intertidal Barnacles Mohammad Rozaimi Bin Jamaludin, O'riordan, Ruth Stable Isotopes Labelling and Expression of Recombinant Neurogranin from E.Coli Ng Cherlyn, Sheu Fwu-Shan

In Vitro Selection of Serine Hydrolases with Ribosome Display Ng Teclise, Yao Shao Qin

Contact Toxicity of Garlic Essential Oil, Pepper Extract and Sesame Oil on Blattella Germa Pak Oi Yee, Samantha, Ho Shuit Hung

Surival of the Weatherloach in the Mud Peh Bee Keow, Ip Yuen Kwond

Developmental Roles of Nuclear Receptors Quek Sue Ing, Chan Woon Khiong

Land Use and Vegetation of Pulau Ubin Sha Chih Mun, John, Tan Tiang Wah, Hugh

Characterisation of the Venom from Six Species of Colubrids and the partial sequence of two Novel Protein Toxins
Sheik Fadil Ryan Ramjan, Kini R Manjunatha

Ambient Exposure to Specific Allergenic

Tan Chia Chia, Stephanie, Chew Fook Tim

Is There a Correlation Between Perceived Beauty and the Symmetry of a Human Face in Singapore? Tay Woon Ping, Sodhi, Navjot S

Species Diversity and Distribution of Cnidarians in Raffles Marina

Teo Li-En, Dionne, Chou Loke Ming

Contact Toxicity and Repellency of Trans-Anethole and Cinna Maldehyde to Blattella Germanica Wee Hong Tat, Ho Shuit Hung

Excretory Nitrogen Metabolism in the Chinese Fire Belly Newt Cynops Orietalis in Water ion Land, or During Ammonia Exposure Weng Lei, Ip Yuen Kwong

Biodiversity and Distribution of Sponges (Phylum Porifera) in a Semi-enclosed Marina Yang Shufen, Chou Loke Ming

Department of Biochemistry

Determination of Endogenous Cyclic ADP-ribose by Cyclin Assay

Ang Chuan Hong, Chang Chan Fong Characterization of Polymorphisms in the Promoter of the ABCG2 Gene

Ang Yen Sin, Lee Guat Lay, Caroline Protection of Cells Against Oxidative Damage by

Natural Products Chai Phing Chian, Halliwell, Barry

NFKB Expression and NIH3T3 cells' Sensitivity to TNF, H2O2 and Staurosporine- medicated Cell Death

Chan Lay Koon, Clement, Marie-Veronique

Mutagensis of Charged Amino Acids in the Nterminal Portion of Multidrug Resistance Protein 5 Chia Chern Pang, Timothy, Tan May Chin, Theresa

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