### Session M1A

#### Biochips & Bioinstrumentation I

Date :	December 11, 2006
Time :	1330 - 1530
Room :	Bergomont
M1A.1	Electrooculogram based Instrumentation and Control System (IC System) and its Applications for Severely Paralysed Patients
	A Rajan, *R G Shivakeshavan, *V R Jayaraman Sathyabama University, INDIA *Anna University, INDIA
M1A.2	Rapid Differentiation of Pharmaceutical Biomolecules: Ginseng and Adulterants
	Y L K Yap, C S Lim, *S Y Chan, **Y W Chan Nanyang Technological University, SINGAPORE *National University of Singapore, SINGAPORE **Singapore General Hospital, SINGAPORE
M1A.3	Design and Rapid Constructions of Microstructures in Optical Fibers using CO2 Laser- Their Potentials for Biosensor Application
	R Irawan, S C Tjin, C M Tay, K M Tan Nanyang Technological University, SINGAPORE
M1A.4	Electrochemical Study of a DNA Base Probe based on Anticancer Drug Dacarbazine
	R Zhang, X Wang Southeast University, CHINA
M1A.5	The Effect of UV Irradiation on the Binding of Anticancer Drug Doxorubicin to DNA in the Presence of TiO2 Nanoparticles Binding Drug to DNA
	M Song, X Wang Southeast University, CHINA
M1A.6	Evaluation of Speech Intelligibility for Feedback Adaptive Active Noise Cancellation Headset
	J H Lin, *S T Tang, **W R Han, **C Y Chuang, **P T Liu, **S T Young Kun Shan University, TAIWAN
	*Yuanpei Institute of Science and Technology, TAIWAN **National Yang-Ming University, TAIWAN

## Session M1B

#### Biomedical Imaging & Visualization I

Date :	December 11, 2006
Time :	1330 - 1530
Room :	Jasmine
M1B.1	Extraction of the Breast Cancer Tumour in Mammograms using Genetic Active Contour
	G Rezai-Rad, M Kashanian Iran University of Science and Technology, IRAN
M1B.2	Automatic Gridding of Rotated Microarray Images
	C Le Brese, J J Zou
	University of Western Sydney, AUSTRALIA
M1B.3	A Histogram-Based Fast Enhancement Algorithm for CT Head Images
	J Yin, X Tian, Z Tang, *Y Sun
	Macao University of Science and Technology, MACAU S.A.R. *Tsinghua University, CHINA
M1B.4	Retrospective Cluster Size Thresholding for MRF-based Detection of Activated Regions in fMRI
	S A Sadananthan, V Zagorodnov Nanyang Technological University, SINGAPORE
M1B.5	Statistical Surface Wavelets Model for Multiscale and Spatial-Localized Medical Image Analysis
	Y Li, T S Tan, *I Volkau, *W L Nowinski National University of Singapore, SINGAPORE *Singapore Bioimaging Consortium, SINGAPORE
M1D 6	A Manapala Droba Loadad by two Darasitic Flomants for MDL 1 5 Tacla
M1B.6	A Monopole Probe Loaded by two Parasitic Elements for MRI 1.5 Tesla M Mohammadzadah, *S A Chasompour Shirazi
	M Mohammadzadeh, *S A Ghasempour Shirazi Information and Communications Technology Faculty, IRAN *University of Applied Science and Technology, IRAN

## Session M1C

#### Biomedical Signal Processing I

Date :	December 11, 2006
Time :	1330 - 1530
Room :	Lavender 1
M1C.1	Minimum Relative Entropy (MRE) Method for Fuzzy Based Classification of Epilepsy Risk Levels from EEG Signals
	R S Ponnu, H Rajaguru Thiagarajar College of Engineering, INDIA
M1C.2	Speech-like Analysis of Snore Signals for the Detection of Obstructive Sleep Apnea
	A K Ng, T S Koh, *E Baey, **K Puvanendran Nanyang Technological University, SINGAPORE *Respironics Incorporated, SINGAPORE **Singapore General Hospital, SINGAPORE
M1C.3	Developing Hidden Markov Models for Aiding the Assessment of Preterm Babies'
	Health D S Lee, J Roscoe, *G Russell
	University of Canterbury, NEW ZEALAND *Christchurch Women's Hospital, NEW ZEALAND
M1C.4	A Novel Pattern Recognition Technique for Quantification of Heart Rate Variability
	V I Thajudin Ahamed, P Dhanasekharan, N G Karthick, J Paul K, *A Naseem, *T K Abdul Jaleel National Institute of Technology, Calicut, INDIA *Santhy Hospital, INDIA
M1C.5	Tracking the Left Ventricular Motion by Harmonic State Model
	L Evina, M Oumsis, M Meknassi University Sidi Mohamed Ben Abdellah, MOROCCO
M1C.6	Localisation of Epileptic Seizures by - A Novel Technique Topographical Brain Electrical Activity Mapping
	N Dewan, S Shenbagadevi Anna University, INDIA

## Session M1D

#### Biomechanics I

Date :	December 11, 2006
Time :	1330 - 1530
Room :	Lavender 2
M1D.1	Influence of Colour Hue on Fractal EEG Dimensions
	J Tripathy, F K Fuss, V V Kulish, S Yang
	Nanyang Technological University, SINGAPORE
M1D.2	Design and Development of an Earthquake-Simulated Environment for the Study of
WITD.2	Postural Stability
	Z O Abu-Faraj, T F Hamdan, M R Wehbi, G A Khalil, H M Hamdan American University of Science and Technology, LEBANON
	American University of Science and Technology, LEBANON
M1D.3	Dynamic Intrameniscal Stresses Measurement in the Porcine Knee
	P K Goh, F K Fuss, *T Yanai, A C Ritchie
	Nanyang Technological University, SINGAPORE *Chukyo University, JAPAN
M1D.4	Using Sole Pressure Signals to Analyze Walking Posture
	Y Okazaki, N Yoshida, K Oguchi
	Seikei University, JAPAN
M1D.5	Effect of Vibration on Lumbar Bone of OVX Rats Compared with Risedronate-dosed
	Rat
	C Y Ko, T W Lee, D G Woo, B S Namgung, H S Kim, *B Y Lee Yonsei University, KOREA
	*Kunkuk University, KOREA
M1D.6	Finite Element Analysis of Head-Neck Kinematics under Rear-end Impact Conditions
	E C Teo, Q H Zhang, T X Qiu Nanyang Technological University, SINGAPORE
	Nanyang technological university, shvuaruke

## Session M2A

## Biochips & Bioinstrumentation II and Bionanotechnology & BioMEMS

Date :	December 11, 2006
Time :	1600 - 1800
Room :	Bergomont
M2A.1	Monitoring and Measuring Instrument Design of RF Electromagnetic Fields for Human Physical and Mental Health
	C Y Chuang, *J H Lin, **S T Tang, W R Han, P T Liu, S T Young National Yang-Ming University, TAIWAN *Kun Shan University, TAIWAN **Yuanpei Institute of Science and Technology, TAIWAN
M2A.2	Wireless Health Alert and Monitoring System
	A Kumar, F Rahman Singapore Polytechnic, SINGAPORE
M2A.3	Noninvasive Estimation of Tissue Impedance based on an Equivalent Circuit Model
	Y Ikeda, Y Sato, Y Kinouchi, *E Yasuno, Y Omine, A Tangoku, T Morimoto The University of Tokushima, JAPAN *Anan College of Technology, JAPAN
M2A.4	Fabrication and Performance Testing of Disposable Micropump Suitable for Microfluidic Chip
	R Irawan, P Aparajita, S Swaminathan, S C Tjin Nanyang Technological University, SINGAPORE
M2A.5	Design and Development of a Simple Hardware Setup for Sensing Blood Volume Pulse and a PIC Microcontroller Based Heart Rate Meter
	V K Jayasree, V P N Nampoori, P Radhakrishnan, C P G Vallabhan Cochin University of Science and Technology, INDIA
M2A.6	Nanocomposite Bone Tissue-Engineering Scaffolds Prepared from Gelatin and Hydroxyapatite using Layer Solvent Casting and Freeze-Drying Technique
	M Azami, F Orang, F Moztarzadeh Amirkabir University of Technology, IRAN

## Session M2B

#### Biomedical Imaging & Visualization II

Date :	December 11, 2006
Time :	1600 - 1800
Room :	Jasmine
M2B.1	Modified Fuzzy Hopfield Neural Network using for MRI Image Segmentation G Rezai-Rad, *R Valipour Ebrahimi Iran University of Science and Technology, IRAN *Azad University of Ashtiyan, IRAN
M2B.2	Automated Endocardial Boundary Detection using Dynamic Directional Gradient Vector Flow Snakes K Mahendran, S W Foo Nanyang Technological University, SINGAPORE
M2B.3	Accurate Extraction of Contour Information from the Cleavage of Neural Stem Cells C Tang, *J Xu Harbin Engineering University, CHINA *University of Hertfordshire, UNITED KINGDOM
M2B.4	FPGA Implementation of Real-time Fluorescence Endoscopy Imaging Algorithms L S Cheong, H S Seah, F Lin, C W K Yu, K Qian, *K C Soo, *P Thong, *M Olivo Nanyang Technological University, SINGAPORE *National Cancer Centre Singapore, SINGAPORE
M2B.5	Discrimination between Alzheimer's Disease and Control Group in MR-images based on Texture Analysis using Artificial Neural Network M Torabi, R Dehestani Ardekani, E Fatemizadeh Sharif University of Technology, IRAN
M2B.6	Breast Cancer Diagnosis and Classification in MR-images using Multi-stage Classifier R Dehestani Ardekani, M Torabi, E Fatemizadeh Sharif University of Technology, IRAN
M2B.7	A Complete Automatic Region Growing Method for Segmentation of Masses on Ultrasound Images P Srinivasan, R Gurupatham Anna University, INDIA

## Session M2C

#### Biomedical Signal Processing II

Date : Time :	December 11, 2006 1600 - 1800
Room :	Lavender 1
M2C.1	EEG Signal Analysis based on Time-variant Coupled Network Lattice Model M Shen, G Chang, S Wang, *P J Beadle Shantou University, CHINA *Portsmouth University, UNITED KINGDOM
M2C.2	Estimation of Visual ERP Signals with Nonextensive Entropy M Shen, B Li, H Tang Shantou University, CHINA
M2C.3	Prediction of Active Substance Content in Pharmaceutical Tablets using Wavelet Compressed NIR and Raman Spectroscopic Data C S Soh, R Paramesran University Malaya, MALAYSIA
M2C.4	Changes in Cardiopulmonary Coupling during Sleep Onset C P Chua, C Heneghan University College Dublin, IRELAND
M2C.5	Heart Rate Variation for Iodinated Contrast Medium Injection based on Adaptive Template Matching Algorithm K M Chang, Y C Su, *S H Liu, **S C Yang, **Y L Li Asia University, TAIWAN *Yuanpei University of Science and Technology, TAIWAN **Lin-Shin Hospital, TAIWAN
M2C.6	Evaluation of Feature Selection Methods for Improved EEG Classification A Alsukker, A Al-Ani University of Technology, Sydney, AUSTRALIA

## Session M2D

#### Biomechanics II

Date : Time :	December 11, 2006 1600 - 1800
Room :	Lavender 2
M2D.1	Time-Dependent Change of Load Sharing between Two Non-Linear Visco-Elastic Materials: Experiment and Model F K Fuss, P K Goh, *T Yanai, A C Ritchie Nanyang Technological University, SINGAPORE *Chukyo University, JAPAN
M2D.2	Status Review on Human Reproduction Biomechanics J Y A Foo, C S Lim Nanyang Technological University, SINGAPORE
M2D.3	CT Based Three Dimensional Finite Element Model of Cervical Spine S Basa, V Balasubramanian Indian Institute of Technology, Madras, INDIA
M2D.4	On Preconditioning and Stress Relaxation Behaviour of Fresh Swine Skin in Different Fibre Direction Z Liu, K Yeung University of Sydney, AUSTRALIA
M2D.5	Design and Mechanics of TLIF/ELIF Implants F K Fuss, *R J Sabitzer Nanyang Technological University, SINGAPORE *Otto Wagner Hospital, AUSTRIA
M2D.6	Biomechanical Tests of Osteoporotic Vertebral Trabecular Bone using Finite Element Analysis based on Micro-CT D G Woo, T W Lee, C Y Ko, H S Kim, *Y Y Won Yonsei University, KOREA *Ajou University, KOREA

## Session T1A

#### Bionanotechnology & BioMEMS II and Tissue Engineering

Date : Time : Room :	December 12, 2006 1350 - 1550 Bergomont
T1A.1	Encapsulation of DNA by Cationic Copolymer Vesicles for Gene Delivery and Micro- arraying Techniques C K B Wong Ministry of Education, SINGAPORE
T1A.2	Thermo-Responsive Hydrogel-Coated Gold Nanoshells J H Kim, T R Lee University of Houston, UNITED STATES
T1A.3	Preparation and Characterization of Poly-e-caprolactone Carrier Particles for Controlled Insulin Delivery A Mukerjee, V Pruthi, *V R Sinha Indian Institute of Technology, Roorkee, INDIA *Panjab University, INDIA
T1A.4	Adhesion of Tooth Germ Cells on Various Biomaterials R S Chen, T H Young, M H Chen National Taiwan University, TAIWAN
T1A.5	Interactions of HepG2 Cells on Biomaterials with Various Surface Properties J N Lu, T H Young National Taiwan University, TAIWAN
T1A.6	Porcine Small Intestinal Submucosa is a Suitable Small Diameter Vascular Substitute W C Toy, Y Y Gan, *S K A Law, *J H Yeo, **J J Chiu, **L J Chen, **H C Hwang National Institute of Education, SINGAPORE *Nanyang Technological University, SINGAPORE **National Health Research Institutes, TAIWAN

### Session T1B

Biomedical Imaging & Visualization III and Drug Discovery & Design

Date : Time : Room :	December 12, 2006 1350 - 1550 Jasmine
T1B.1	Incorporation of Active Contour without Edges in the Fast Level Set Framework for Biomedical Image Segmentation A Lakshmanan, M Thida, K L Chan, J Zhou Nanyang Technological University, SINGAPORE
T1B.2	Temporal and Antigenic Analysis of Dengue Virus Serotype 1 Genome Polyprotein Sequences M Rajapakse, A Veeramani, K Gopalakrishnan, S Ananthanarayan, *S Kellathar N, *J T August, **A M Khan, ***V Brusic Institute for Infocomm Research, SINGAPORE *Johns Hopkins University, UNITED STATES **Johns Hopkins Singapore, SINGAPORE ***The University of Queensland, AUSTRALIA
T1B.3	Performance Evaluation of MULTIEPD1 on Prediction of MHC Class I Binders G L Zhang, *C K Kwoh, **J T August, ***V Brusic Institute for Infocomm Research, SINGAPORE *Nanyang Technological University, SINGAPORE **Johns Hopkins University, UNITED STATES ***The University of Queensland, AUSTRALIA
T1B.4	Grinding Effect on the Thermodynamic and Kinetic Characterizations of Polymorphic Transformation of Famotidine S Y Lin, W T Cheng, M J Li, *S L Wang Taipei Veterans General Hospital, TAIWAN *National ChiaYi University, TAIWAN
T1B.5	Computational Models for Identifying Promiscuous HLA-B7 Binders based on Information Theory and Support Vector Machine G L Zhang, J C Tong, Z H Zhang, *J T August, **Y Zheng, ***C K Kwoh, ***V Brusic Institute for Infocomm Research, SINGAPORE *Johns Hopkins University, UNITED STATES **The University of Queensland, AUSTRALIA ***The University of Queensland, AUSTRALIA
T1B.6	BioDArt – Catalogue of Biological Data Artifact Examples A Veeramani, K Gopalakrishnan, *V Brusic, **J L Y Koh Institute for Infocomm Research, SINGAPORE *The University of Queensland, AUSTRALIA **National University of Singapore, SINGAPORE

## Session T1C

#### Biomedical Signal Processing III

Date :	December 12, 2006
Time :	1350 - 1550
Room :	Lavender 1
T1C.1	Baseline Wandering Removal by using Independent Component Analysis to Single- Channel ECG data Z Barati, A Ayatollahi Iran University of Science and Technology, IRAN
T1C.2	Combination of Multiple Classifiers with Fuzzy Integral Method for Classifing the EEG Signals in Brain-Computer Interface Z Shoaie, *M Esmailee, S B Shouraki Sharif University of Technology, IRAN *Amirkabir University of Technology, IRAN
T1C.3	Comparing Higher Order Statistics of three ICA Methods in Wavelets-based Single- channel Fetal ECG Extraction M Poursoltani, *A Boroomand, A Ayatollahi Iran University of Science and Technology, IRAN *Tehran University of Medical Science, IRAN
T1C.4	VLSI Design and Simulation of a SIRM Fuzzy System - Diabetic Epilepsy Risk Level Classifier – A Case Study R S Ponnu, *K G Kandasamy, H Rajaguru, **K P Kuppusamy Thiagarajar College of Engineering, INDIA *PSG College of Technology-Coimbatore, INDIA **Bannari Amman Institute of Technology, INDIA
T1C.5	Image Denoising based on a Mixture of Bivariate Gaussian Distributions with Local Parameters in Complex Wavelet Domain H Rabbani, M Vafadust, *S Gazor Amirkabir University of Technology, IRAN *Queen's University, CANADA
T1C.6	Some Limitations of Localizing Inert Region from EEG M Katayama, M Akutagawa, *H Nagashino, Y Kinouchi, **U R Abeyratne, ***Y Kaji, **F Shichijo The University of Tokushima, JAPAN *Bunri University of Tokushima, JAPAN **The University of Queensland, AUSTRALIA ***Suzue Medical Center, JAPAN

## Session T1D

#### Biomechanics III and Bioinformatics & Computational Biology I

Date : Time : Room :	December 12, 2006 1350 - 1550 Lavender 2
T1D.1	Biomechanical Effects of the Weight of Side Loaded Carriage in Walking - Correlation between Body Center of Mass (COM) and Joint Moments H Choi, S Hwang, Y K Cho, S Myung, H S Kim, Y Kim Yonsei University, KOREA
T1D.2	FE Assessment of an Interspinous Implant (ISS) Y Zhou, T X Qiu, E C Teo, *P Dominique Nanyang Technological University, SINGAPORE *FlexSpine Pte Ltd, SINGAPORE
T1D.3	Discussions of Knee Joint Segmentation Y Sun, E C Teo Nanyang Technological University, SINGAPORE
T1D.4	A Relevance Vector Machine Based Quantitative Prediction Method for Mouse Class I MHC Peptide Binding Affinity D Li, W Hu Wuhan University, CHINA
T1D.5	Predition of Shared Regulatory Motifs from Upstream DNA Database for Gallus Gallus C K Kwoh, C H Tan Nanyang Technological University, SINGAPORE
T1D.6	A Prognosis Tool based on Hemostasis and Genetic Complementary Learning T Z Tan, G S Ng, H C Quek, *S C L Koh Nanyang Technological University, SINGAPORE *National University Hospital, SINGAPORE

## Session T2A

#### Biooptics & Biosensing I

Date : Time : Room :	December 12, 2006 1620 - 1800 Bergomont
T2A.1	Fluorescence Lifetime Imaging of Haematoxylin and Eosin-stained Cervical Tissue C Y Fu, U S Dinish, B K Ng, V M Murukeshan, L K Seah, *S K Lim-Tan Nanyang Technological University, SINGAPORE *Singapore General Hospital, SINGAPORE
T2A.2	Detection of DNA Sample Fluorescence using Frequency Domain Imaging Technique U S Dinish, L K Seah, V M Murukeshan, H Gong, N Ramalingam Nanyang Technological University, SINGAPORE
T2A.3	ZnO/ TiO2 Core-Shell Quantum Dots Application for Colorectal Cancer Fluorescence Image S Fu, C S Lim, *L C Kwek, *T C Chia, **C L Tang Nanyang Technological University, SINGAPORE *National Institute of Education, SINGAPORE **Singapore General Hospital, SINGAPORE
T2A.4	Rapid Palm Sized-All in one Tuberculosis Screening System A M Pariwono, C S Lim, S T Lo, *Y Amrie, *A Muchtar Nanyang Technological University, SINGAPORE *Hospital for Pulmonary Tuberculosis, INDONESIA
T2A.5	Rapid Porcine Diagnostic System (RPDS) for Detecting PRRS Antibodies in Swine Blood Sera P V Preejith, P C Yip, *C E Lim, *T H Zhing, *C S Lim Asensor Pte. Ltd, SINGAPORE *Nanyang Technological University, SINGAPORE

### Session T2B

#### Assistive & Rehabilitation Technology

Date :	December 12, 2006
Time : Room :	1620 - 1800 Jasmine
T2B.1	Recurrent Neural Network Control of Functional Electrical Stimulation Systems
	Y Wu, Q Song, X Yang, L Lan Nanyang Technological University, SINGAPORE
T2B.2	Improvement of Esophageal Speech using LPC and LF Model
	R Sirichokswad, P Chanyagorn, W Charoensuk, *P Boonpramuk, N Kasemkosin, **H
	H Szu Mahidol University, THAILAND
	*King Mongkut's University of Technology Thonburi, THAILAND **Naval Research, UNITED STATES
T2B.3	Ground Truth Estimation using Multimodal Data Fusion: Proposed Methodology
120.5	P Mohan, *W S Ng, *D Shi
	Singapore General Hospital, SINGAPORE *Nanyang Technological University, SINGAPORE
T2B.4	Effect of LBP on Muscle Activity of Lower back and Upper Extremity while Aerobic
	Cycling – An sEMG Based Study
	S Jayaraman, V Balasubramanian Indian Institute of Technology, Madras, INDIA
T2B.5	Development of an Active Ankle Foot Orthosis for the Prevention of Foot Drop and
	Toe Drag
	S Hwang, J Y Kim, *J Yi, K Tae, K Ryu, Y Kim Yonsei University, KOREA
	*Hanseo Universiy, KOREA

### Session T2C

#### Biomedical Signal Processing IV and Cardiovascular & Respiratory Systems I

Date : Time : Room :	December 12, 2006 1620 - 1800 Lavender 1
T2C.1	Music and the EEG: A Study using Nonlinear Methods N G Karthick, V I Thajudin Ahamed, J Paul K National Institute of Technology, Calicut, INDIA
T2C.2	Analysis of the Characteristics of Electrooculogram Applied a Battery Model to the Eyeball K Shinomiya, H Shiota, *Y Ohgi, **N Itsuki, *R Tabesh, *M Yamada, ***M Kubo Tokushima University, JAPAN *-, JAPAN **Niihama National Collage of Technology, JAPAN ***Kubo Eye Clinic, JAPAN
T2C.3	A Strong Adaptive and Comprehensive Evaluation of Wavelet Based Epileptic EEG Spike Detection Methods R Sarang Islamic Azad University - Science & Research Branch, IRAN
T2C.4	Measurement of Blood Flow Velocity Waveforms in the Carotid, Brachial and Femoral Arteries during Postural Change A Azhim, M Katai, M Akutagawa, *Y Hirao, K Yoshizaki, S Obara, M Nomura, et. al. The University of Tokushima, JAPAN *Tokushima Pref. I.T.C., JAPAN
T2C.5	Normalized Pulse Transit Time to Assess Age-Related Changes J Y A Foo, C S Lim Nanyang Technological University, SINGAPORE

## Session T2D

#### Bioinformatics & Computational Biology II

Date : Time : Room :	December 12, 2006 1620 - 1800 Lavender 2
T2D.1	Comparative Genomic Analysis Suggests FOXP3 Facilitates Tumor Evasion against Immunosurveillance by Transcriptionally Up-regulating Proteinase Inhibitor 9 X Jiang, J Cai, S Zhong University of Illinois at Urbana-Champaign, UNITED STATES
T2D.2	Cross-correlation of DNA Sequences using Hypercomplex Number Encoding Y Li, J J Shu Nanyang Technological University, SINGAPORE
T2D.3	Proteomic Analysis of Ginseng J M Yeh, W Y J Ong, *Y L K Yap Republic Polytechnic, SINGAPORE *Nanyang Technological University, SINGAPORE
T2D.4	A Tale of Intronless Genes in Eukaryotic Genomes M K Sakharkar, Y Li, I Chaturvedi, P Li Nanyang Technological University, SINGAPORE
T2D.5	A Computational Model of Ferrofluid Flow using Maxwell's Equations and Navier- Stokes Equations M Lohakan, C Yensiri, *S Boonsang, *C Pintavirooj King Mongkut's Institute of Technology North Bangkok, THAILAND *King Mongkut's Institute of Technology Ladkrabang, THAILAND

#### Session W1A

#### **Biooptics & Biosensing II**

Date : December 13, 2006

- Time : 1430 1530
- Room : Bergomont
- W1A.1 Development of an Ultra-high Sesitive Fluorescence Measurement System for Cancer Researh R Yamada, \*M Kohno, \*M Takeda Tohoku Electronic Industrial Co Ltd, JAPAN \*Tohoku University, JAPAN

W1A.2 Application of Self-Assembled Monolayer of Carboxy-1-Decanthiol for Cholesterol Biosensor
P R Solanki, S K Arya, B D Malhotra, \*Y Nishimura, \*M Iwamoto National Physical Laboratory, INDIA
\*Tokyo Institute of Technology, JAPAN

W1A.3 Serum Albumin Measurement using a Tapered Fluorescent Fiber-Optic Evanescent Wave-based Biosensor P V Preejith, \*C S Lim, \*\*T F Chia Asensor Pte. Ltd, SINGAPORE \*Nanyang Technological University, SINGAPORE \*\*National Institute of Education, SINGAPORE

## Session W1B

#### Targeted Drug & Gene Delivery

Date : Time : Room :	December 13, 2006 1430 - 1530 Jasmine
W1B.1	Ultrasound Mediated Gene Delivery using Bubble Containing Lipoplexes J H Mai, R Liu, X Wei, Y B Yao, Y Xu Shanghai Jiaotong University, CHINA
W1B.2	Peptide Ligand Targeted Delivery to EGFR Expressing Cancer Cells in Vitro and in Vivo S X Song, D Liu, J L Peng, Y Xu Shanghai Jiaotong University, CHINA
W1B.3	The use of Nano-structured Hybrid Materials for Oral Drug Delivery R Kumar, *P H Kithva, *P Cheang, *K A Khor University of Montana, UNITED STATES *Nanyang Technological University, SINGAPORE
W1B.4	Low Molecular Weight Chitosan-Based Conjugate: A New Platform for Oral Delivery of Paclitaxel E Lee, J Lee, S Jon Gwangju Institute of Science and Technology, KOREA

## Session W1C

#### Cardiovascular & Respiratory Systems II

Date : Time : Room :	December 13, 2006 1430 - 1530 Lavender 1
W1C.1	Continuous Measurement of Oxygen Saturation Level using Photoplethysmography Signal G M Azmal, A A Al-Jumaily, M ' O Al-Jaafreh University of Technology, Sydney, AUSTRALIA
W1C.2	Practical Swarm Optimization Based Stroke Volume Influence on Mean Arterial Pressure M ' O Al-Jaafreh, A A Al-Jumaily University of Technology, Sydney, AUSTRALIA
W1C.3	A Simulation Study of Arrhythmia using Computational Model R Malathi, *M Ramasubba Reddy Indian Institute of Technology, INDIA *Indian Institute of Technology, Madras, INDIA

## Session W1D

#### Bioinformatics & Computational Biology III

Date : Time : Room :	December 13, 2006 1430 - 1530 Lavender 2
W1D.1	A Genomic Level Analysis of Alcohol Producing Pathways of Zymomonas Mobilis A P Ranjan, C S Prasad, G P Agarwal, *S Ramachandran Indian Institute of Technology, Delhi, INDIA *Institute of Genomics and Integrative Biology, INDIA
W1D.2	Design and Implementation of an Intelligent Agent System for Genome Data Retrieval F Sufi, I Cosic, Q Fang RMIT University, AUSTRALIA
W1D.3	GeneONE Portal Framework for Integrating Genome Databases, Tools, Techniques and Methods G Mohamed Hanifa, *S P Lee Multimedia University, MALAYSIA *University Malaya, MALAYSIA

## Session W2A

# Biomaterial & Biomolecular and Cognitive Neuroscience & Neurosystems

Date :	December 13, 2006
Time :	1600 - 1720
Room :	Bergomont
W2A.1	Cellular Uptake Enhancement of Polyamidoamine Dendrimer Modified Single Walled Carbon Nanotubes
	B Pan, D Cui, P Xu, T Huang, Q Li, R He, F Gao Shanghai Jiaotong University, CHINA
W2A.2	Modeling of Thermal Gelation and Degelation of MC and HPMC Hydrogels
	S C Joshi, Y C Lam, B K Tan, S Q Liu Nanyang Technological University, SINGAPORE
W2A.3	Bistable Behavior in A Pair of Interacting Autorhythmic Cardiac Cell Models: Implications to Cardiac Memory
	G Sachdeva, J Krishnan, V S Chakravarthy Indian Institute of Technology, Chennai, INDIA
W2A.4	Dynamic Complexity of Cognitive Event-related Potential based on Time-dependent Approximate Entropy
	N Zhao, S Wang, *X Liu, M Wan Xi'an Jiaotong University, CHINA *Shandong University of Science and Technology, CHINA

#### Session W2B

#### Assistive & Rehabilitation Technology II and Biorobotics, Surgical Robotics & Surgical Planning

Date : Time : Room :	December 13, 2006 1600 - 1720 Jasmine
W2B.1	Rapid On-Site Method to Screen Actinobacillus Pleuropneumoniae in Life Porcines A M Pariwono, *A L Chan, *P C Yip Nanyang Technological University, SINGAPORE *Asensor Pte. Ltd, SINGAPORE
W2B.2	High Intensity Ultrasound Phased Array for Surgical Applications M T Tan, C M Chu, S Chauhan Nanyang Technological University, SINGAPORE
W2B.3	Modeling and Analysis of Human Spinal Feedback Control System L Lan, K Zhu, Y Wu Nanyang Technological University, SINGAPORE
W2B.4	Ergonomic Master Controller for Flexible Endoscopic Gastrointestinal Robot Manipulator M T U Zin, S C Low, S W Tang, L Phee, *K Y Ho, *S C Chung Nanyang Technological University, SINGAPORE *National University of Singapore, SINGAPORE

### Session W2C

#### Cardiovascular & Respiratory Systems III

Date : Time : Room :	December 13, 2006 1600 - 1720 Lavender 1
W2C.1	Exercise Training Improved Blood Flow Velocity and Autonomic Nervous Activity A Azhim, M Katai, M Akutagawa, *Y Hirao, K Yoshizaki, S Obara, M Nomura, et. al. The University of Tokushima, JAPAN *Tokushima Pref. I.T.C., JAPAN
W2C.2	Blood Flow Velocities in Common Carotid Artery Changes with Age and Exercise Study by using of Telemetry Method A Azhim, M Katai, M Akutagawa, *Y Hirao, K Yoshizaki, S Obara, M Nomura, et. al. The University of Tokushima, JAPAN *Tokushima Pref. I.T.C., JAPAN
W2C.3	Frequency Domain Analysis of ECG Signals using Auto-Associative Neural Networks A Sethi, S Arora, A Ballaney MindTree Consulting Ltd., INDIA
W2C.4	Superoxide Detection by Chemiluminescence, Fluorescence, and Spectrophotometry Methods A P Susanto, M Firdhaosh, D A Wang, *K T Moe Nanyang Technological University, SINGAPORE

Nanyang Technological University, SINGAPORE \*National Heart Centre, SINGAPORE

#### Session W2D

#### Bioinformatics & Computational Biology IV and Distributed Diagnosis & Home Healthcare

Date : Time : Room :	December 13, 2006 1600 - 1720 Lavender 2
W2D.1	Validating Text Mining Results on Protein-Protein Interactions using Gene Expression Profiles D Zhou, Y He, C K Kwoh Nanyang Technological University, SINGAPORE
W2D.2	The First Steps Towards Bone Plate Morphing: A Finite Element Model of a Bone Plate with a Micro Scratch A C Van Der Zanden, *C S Lim University of Twente, NETHERLANDS, THE *Nanyang Technological University, SINGAPORE
W2D.3	Web Service-based Healthcare Information System (WSHIS): A Case Study for System Interoperability Concern in Healthcare Field J K Zhang, W Xu University of Surrey, UNITED KINGDOM
W2D.4	Design and Implementation of Expert-Telemedicine System for Diabetes Management at Home R Rudi, B G Celler University of New South Wales, AUSTRALIA