

Registration opens 09:00~			
9:30-10:00	Opening Address:	V.I.P.	Conference Overview by Conference Chairs
10:00-11:00	Keynote Address:	<b>Professor Sang Yup Lee (Distinguished Professor, KAIST): Systems and Synthetic Biotechnology</b>	
11:00-11:15	<b>Coffee</b>		
11:15-12:30	<b>Cell Biology &amp; Biotechnology I</b> <i>Signaling Networks Involved in Retinal Degeneration in Mice</i> , Jayalakshmi Krishnan, Gwang Lee, Sang-Uk Han, Sangdun Choi <i>Proteomic Analysis of a Response to Long-Chain Fatty Acid in Escherichia coli and Its Application</i> , Mee-Jung Han, Jeong Wook Lee, Sang Yup Lee, Jong Shin Yoo <i>Modeling of the Effect of Crosstalk in Apoptotic Pathways on Caspase-3 Activation</i> , Jinki Kim, Gwan-Su Yi <i>Screening of Apoptotic Genes by Morphological Analysis of High Throughput Fluorescence Microscopy Images</i> , Yongsu Chae, Soo Jung Kim, Desok Kim	<b>Biomedicine I</b> <i>Modeling of light propagation through biological tissues: a novel approach</i> , Chinthha Chamalie Handapangoda, Malin Premaratne, Leslie Yeo, James Friend <i>Micro-Injection System for Localized Drug Delivery Using Embedded Solid Chemical Propellant</i> , Jae-won Ban, Kyo-in Koo, Sunkil Park, Gilsun Kim, and Dong-il "Dan" Cho <i>Bio-Inspired Microsystem for Robust Genetic Assay Recognition</i> , Jaw-Chyng Lue and Wai-Chi Fang	<b>Biometrics I</b> <i>A Bioinformatics Based Approach to Behavioural Biometrics</i> , Kenneth Revett <i>Fingerprint Watermarking for H.264 Streaming Media</i> , Sooyeun Jung, Dongeun Lee, Seongwon Lee, and Joonki Paik <i>Fingerprint Verification Based on Absolute Distance and Intelligent BPNN</i> , JuCheng Yang, ByoungJun Min, DongSun Park <i>Neural Network Based Biometric Personal Identification</i> , Rahib H.Abiyev, Koray Altunkaya
12:30-13:30	<b>Lunch</b>		
13:30-15:30	<b>Cell Biology &amp; Biotechnology II</b> <i>Isolation and Characterization of Salt-sensitive Mutants of the Moderately Halophilic Bacterium, Salinivibrio sp. DL6</i> , Daochen Zhu, Shunyan Cui, Jianhe Wei, Shinichi Nagata <i>Simulating Biological Pathways with a Continuous Petri Net Using Runge-Kutta Methods</i> , Sunku Kang, Byungwook Lee, Jihoon Yang, Seonho Kim, and Saejoon Kim <i>Reconstruction of Gene Regulatory Networks by Neuro-fuzzy Inference Systems</i> , Sung Hoon Jung, Kwang-Hyun Cho <i>In silico ligand-based (LB) and docking-based (DB) 3D-QSAR study</i> , F. A. Pasha, M. Muddassar, So Ha Lee, Taebo Sim, Jung-Mi Hah, Seung Joo Cho <i>Relationships Between Structures of Hydroxyflavone Derivatives and Their Anti-oxidative Activities</i> , Younghee Park, Sunhee Lee, Yoongho Lim <i>The Receptor Guided 3D-QSAR Method is a Powerful Tool to Design More Potent IGF-1R Inhibitors</i> , Muhammad Muddassar, F. A. Pasha, Hwan Won Chung, Kyung Ho Yoo, Chang Hyun Oh, Seung Joo Cho	<b>Biomedicine II</b> <i>Analysis and Optimization of a Wireless Communication System for an Ingestible Sensor Microsystem</i> , Nizamettin Aydin, Tughrul Arslan <i>Fractal Analysis of Umbilical Artery Doppler Signals From Normal Pregnant Subject Using Hurst Exponent</i> , Sadik Kara, Fatma Latifoglu, Mehmet Guney <i>Calculation of Joint Reaction Forces in the Equine Distal Forelimb During Walking and Trotting</i> , Jonathan Simon Merritt, Helen Margaret Sarah Davies, Colin Burvill, Marcus Gordon Pandey <i>Towards a Mobile and Context-Aware Technology Based Healthcare System</i> , Jae-gu Song, Seoksoo Kim, Gil-cheol Park <i>Ontology-based Semi-automatic Construction of Bayesian Network Models for Diagnosing Diseases in E-health Applications</i> , Beom-Jun Jeon, In-Young Ko <i>Classification of Unbalanced Medical Data with Weighted Regularized Least Squares</i> , Nguyen Ha Vo, Yonggwon Won	<b>Biometrics II</b> <i>FuzzyHash: A Secure Biometric Template Protection Technique</i> , Andrew Teoh Beng Jin, Jaihie Kim <i>U-City User Authentication Methods and Encryption Techniques Based on Biometric Technology</i> , Youngjun Kim, Jason Kim <i>A Context-Aware Statistical Ontology Approach for Adaptive Face Recognition</i> , Md.Rezaul Bashar, Sung Kwan Kang, Pankaj Raj Dawadi, Phill Kyu Rhee <i>Performance Evaluation Model for the Face Recognition System</i> , YongNyoo Shin, Jason Kim, YongJun Lee, Woochang Shin, Jinyoung Choi <i>Iris Segmentation and Verification</i> , Jong-Gook Ko, Jang-Hee Yoo, Ki-Young Moon <i>Bio-inspired Adaboost Method for Efficient Face Recognition</i> , Suman Sedai, Phill Kyu Rhee
15:30-15:50	<b>Coffee</b>		
15:50-18:30	<b>Proteomics I</b> <i>Prediction of Interacting Motif Pairs using Stochastic Boosting</i> , Jisu Kim, Byungkyu Park, Kyungsook Han <i>Resonant recognition model for prediction of 'lead-in regions' in proteins</i> , Mohenish Jaiswal, S R Mahadeva Prasanna, Latha Rangan <i>Analysis of HCV Envelope Proteins Interacting with Human Proteins</i> , Chirag Nepal, Kyungsook Han <i>Discovering Inter-Domain Paths between Hepatitis C Virus NS5A and Human Liver Proteins</i> , Guang-Zheng Zhang, Kyungsook Han <i>Multi-Layered Networks for Visualizing the Interactions between Heterogeneous Proteins</i> , Yu Chen, Guangyu Cui, Kyungsook Han <i>A Study of Protein Secondary Structure Hydrogen Bonds under Oxidizing Conditions</i> , C.M. Wood, H.J. Kadim <i>Computational Strategies for Protein Quantitation in 2D Electrophoresis Gel Image Processor for Matlab</i> , Umer Zeeshan Ijaz, Safee Ullah Chaudhary, Moon Sang Don, Kyung Youn Kim <i>Feature Extraction in Spatially-Conserved Regions and Protein Functional Classification</i> , Bum Ju Lee, Heon Gyu Lee, Dae-sung Kim, Keun Ho Ryu	<b>Haptics</b> <i>Quantitative Analysis of Colonoscopy Skills Using the KAIST-Ewha Colonoscopy Simulator II</i> , Sun Young Yi, Kum Hei Ryu, Hyun Soo Woo, Woojin Ahn, Woo Seok Kim, Doo Yong Lee <i>Haptic Rendering of Drilling into Femur Bone with Graded Stiffness</i> , Jang Ho Cho, Hoeryong Jung, Kyungno Lee, Doo Yong Lee, and Hyung Soo Ahn <i>A Pilot Study of a Thermal Display Using a Miniature Tactor for Upper Extremity Prosthesis</i> , Keehoon Kim, J. Edward Colgate, Michael A. Peshkin <i>A Miniature Tactor Design for Upper Extremity Prosthesis</i> , Keehoon Kim, J. Edward Colgate, Michael A. Peshkin, Julio J. Santos-Munne, Alex Makhlin <i>Design and Applications of a Pen-Like Haptic Interface with Texture and Vibrotactile Display</i> , Ki-Uk Kyung, Jun-Young Lee, Junseok Park <i>An Efficient Soft Tissue Characterization Method for Haptic Rendering of Soft Tissue Deformation in Medical Simulation</i> , Bummo Ahn, Jung Kim <i>Discrimination of Virtual Environments Under Visual and Haptic Rendering Delays</i> , In Lee, Seungmoon Choi	<b>Genetic and Evolutionary Computation and Heuristic Search I</b> <i>Interactive Fuzzy Multi-objective Ant Colony Optimization with Linguistically Quantified Decision Functions for Flexible Job Shop Scheduling Problems</i> , Li-Ning Xing, Ying-Wu Chen and Ke-Wei Yang <i>An Efficient Global Optimization of Neural Networks by Using Hybrid Method</i> , Yong-Hyun Cho, Seong-Jun Hong <i>Fast Parallel Molecular Algorithms for DNA-Based Computation: Solving the Elliptic Curve Discrete Logarithm Problem over GF(2<sup>n</sup>)</i> , Kenli Li, Shuting Zou, Jin Xv <i>DNA Inspired Digital Signal Pattern Matching Algorithm</i> , Ok hyuk Kwon, Kyu yul Wang, Ji yoon Kim, Jaehyun Park, Duck jin Chung, and Chong ho Lee <i>Adaptive Classifier Selection System using Context-driven Genetic Algorithm</i> , Xi Wang, Phill Kyu Rhee <i>Evolution Analysis of Homogenous Source Code and Its Application to Plagiarism Detection</i> , Jeong-Hoon Ji, Gyun Woo, Su-Hyun Park, Hwan-Gue Cho <i>NEFRL: A New Neuro-Fuzzy System for Episodic Reinforcement Learning Tasks</i> , Babak Behsaz, Reza Safabakhsh <i>Overview of Object Detection and Image Analysis by Means of Genetic Programming Techniques</i> , Krzysztof Krawiec, Daniel Howard, Mengjie Zhang

09:00-11:15	<p><b>Phylogenetics and Biomolecule Discovery</b></p> <p><i>Classification of LARGE-like GlcNAc-transferases of Dictyostelium discoideum by Phylogenetic Analysis</i>, Kuo-Yuan Hwa, Te-Ling Pang, Mei-Yu Chen</p> <p><i>Molecular Mimicry between SARS Coronavirus Spike Protein and Human Protein</i>, Kuo-Yuan Hwa, Wan Man Lin, Yung-I Hou, Trai-Ming Yeh</p> <p><i>Phylogenetic Analysis of Trichomonade Xylosyltransferases</i>, Kuo-Yuan Hwa, Hsing-Hsang Hung, Chen-Hsing Chen</p> <p><i>Crystall structures and computer screened inhibitors of Helicobacter pylori undecaprenyl pyrophosphate synthase</i>, Chih-Jung Kuo, Rey-Ting Guo, I-Lin Lu, Hong-Gi Liu, Su-Ying Wu, Tzu-Ping Ko, Andrew H.-J. Wang, Po-Huang Liang</p> <p><i>Structural Rationale for Differential Carbohydrate Recognition by Barley and Fibrobacter succinogenes 1,3-1,4-β-D-Glucanases</i>, Li-Chu Tsai</p> <p><i>Unsupervised Learning in Spectral Genome Analysis</i>, Lutz Hamel, Neha Nahar, Maria S. Poptsova, Olga Zhaxybayeva, J. Peter Gogarten</p> <p><i>Evolution by communication: a revision of sperm-mediated gene transfer</i>, Andrew V. Kuznetsov</p>	<p><b>Aquacenter Research</b></p> <p><i>Implementation of an Aquatic Plant Information Bank</i>, JinKyu Park, Eenjun Hwang</p> <p><i>Intelligent Navigation of Autonomous Underwater Vehicles for Cage Aquafarm Surveillance</i>, Jongan Lee, Mootaeck Roh, Jinsung Lee, Doheon Lee</p> <p><i>IT Convergence Application System for Eco Aquafarm</i>, Heeteak Ceong, Jeong-Seon Park, Soonhee Han</p> <p><i>Environmental Sensor Data Visualization for Aquafarm Monitoring</i>, Eung Kon Kim, Heeteak Ceong, Sung-Ju Jung</p> <p><i>Design of Environment Monitoring System for Aquaculture Farms</i>, Soonhee Han, Youngman Kang, Kyehwa Park, Moonsuk Jang</p> <p><i>Computer Simulation Framework for Flatfish Aquaculture</i>, Heeteak Ceong, Kyehwa Park, Sungju Jung</p> <p><i>Fish Schooling Behavior Simulator for Cyber Aquarium</i>, Eung Kon Kim, Jong Chan Kim</p>	<p><b>Interaction with Humanoids Speech and Gaze</b></p> <p><i>Articulatory Reproduction of Voices of Hearing-impaired by a Talking Robot</i>, Hideyuki Sawada, Mitsuki Kitani, Yasumori Hayashi</p> <p><i>Speech Enhancement using Masking of Noisy Power Estimates and Linear Regression</i>, Soojeong Lee, Soonhyob Kim</p> <p><i>3D Gaze Tracking and Analysis for Attentive Human Computer Interaction</i>, Jeongseok Ki, Yong-Moo Kwon, Kwanghoon Sohn</p> <p><i>3D Environment Modeling and its Application to Human Robot Interaction</i>, Kyeong-Won, Jeongseok Ki, Yong-Moo Kwon, Hanseok Ko</p> <p><i>Usability Evaluation of Humanoid-Animation Avatar with Physiological Signals</i>, Sonho Kim, Gil Cheol Park, and Seoksoo Kim</p>	<p><b>Data Analysis and Information Mining</b></p> <p><i>Exploiting a Variant of Term Reweighting for Enhancing MEDLINE Documents Retrieval</i>, Sooyoung Yoo, Jinwook Choi</p> <p><i>Automated Classification and Information Extraction of Biological Text</i>, Jihoon Yang, Yoonhee Choi, Kiho Hong, Junhyung Park, Seonho Kim</p> <p><i>Three-phase Detection of Gene Interactions based on Syntactic Paths</i>, Mi-Young Kim</p> <p><i>A Cluster-Outlier Iterative Detection Approach to Multi-Dimensional Data Analysis</i>, Yong Shi, Aidong Zhang</p> <p><i>User Customized Document Clustering Using Attributes in Patent Documents</i>, Woo Gyoung Jun, Yill Byung Lee</p> <p><i>Data Mining Techniques for Emboli Detection</i>, Adem Karahoca, Nizamettin Aydin</p> <p><i>Mining Databases by Means of an Incremental Association Rule Learner</i>, Laila Elfangary, Walid Adly Attaya</p>
11:15-11:30	<b>Coffee</b>			
11:30-12:30	<p><b>Keynote Address:</b> <b>Dr Adrian Stoica (JPL NASA): From Bionics and Wetware to Cyborgs and Transhumans</b></p>			
12:30-12:30	<b>Lunch</b>			
13:30-15:10	<p><b>Computational Anatomy</b></p> <p><i>Hippocampus shape-space analysis of clinically depressed, high risk, and control twin populations</i>, Youngser Park, Carey Priebe, Kelly Botteron, Michael Miller, Nikhil Mohan</p> <p><i>Brain Differences Visualized in the Blind using Tensor Manifold Statistics and Diffusion Tensor Imaging</i>, Agatha D. Lee, Natasha Lepore, Franco Lepore, Flamme Alary, Patrice Voss, Yiyu Chou, Caroline Brun, Marina Barysheva, Arthur W. Toga, Paul M. Thompson</p> <p><i>Validation of Alternating Kernel Mixture Method Based Segmentation of the Human Brain</i>, Nayoung A. Lee, Carey E. Priebe, Michael I. Miller</p> <p><i>Mapping Genetic Influences on Brain Shape using Multi-Atlas Fluid Image Alignment</i>, Meena Mani, Yi-yu Chou, Natasha Lepore, Agatha Lee, Jan de Leeuw, Katie McMahon, Margie Wright, Arthur Toga, Paul M. Thompson</p>	<p><b>Mathematical Genomics</b></p> <p><i>Three Dimensional Chaos Game Representation of Genomic Sequences</i>, Iman Tavassoly, Omid Tavassoly, Mohammad Soltany Rezaee Rad, Negar Mottaghi Dastjerdi</p> <p><i>Multifractal Analysis of Chaos Game Representation Images of Mitochondrial DNA</i>, Iman Tavassoly, Omid Tavassoly, Mohammad Soltany Rezaee Rad, Negar Mottaghi Dastjerdi</p> <p><i>Improving training speed of Support Vector Machines by creating exploitable trends of Lagrangian variables: an application to DNA splice site detection</i>, Jason Li, Saman K. Halgamuge</p> <p><i>Towards Interactive Visualization for Exploring Conserved Motifs in Noncoding DNA Sequence</i>, Clare Bates Congdon, H. Rex Gaskins, Gerardo M. Nava, Carolyn Mattingly</p>	<p><b>Biometrics III</b></p> <p><i>Biometric Certificate based Biometric Digital Key Generation with Protection Mechanism</i>, Yunsu Chung, Kiyoung Moon, Hyung-Woo Lee</p> <p><i>Determining Optimal Malsburg Gabor Kernel for Efficient Non-Rigid Object Recognition</i>, Mi-Young Nam, Eun-Sil Yun, Phill-Kyu Rhee</p> <p><i>Evolutionary Classifier Fusion for Optimizing Face Recognition</i>, Suman Sedai, Phill Kyu Rhee</p> <p><i>Canonical View Synthesis for Gait Recognition</i>, Seungdo Jeong, Su-Sun Kim, Byung-Uk Choi</p> <p><i>Two-level Classifier Scheme for Efficient Eye Location</i>, Xi Wang, Sung Kwan Kang, Phill Kyu Rhee</p>	<p><b>Autonomous Robots and Control Theories</b></p> <p><i>Bounded Incremental Real-Time Dynamic Programming</i>, Changjie Fan, Xiaoping Chen</p> <p><i>Learning to Drive a Real Car in 20 minutes</i>, Martin Riedmiller, Mike Montemerlo, Hendrik Dahlkamp</p> <p><i>Integrated Heterogeneous Multi-Robot System for Collaborative Navigation</i>, Qining Wang, Guangming Xie, Long Wang, Ming Wu</p> <p><i>Study of the Beverton-Holt equation from a control theory point of view</i>, M. De la Sen, S. Alonso-Quesada, A. Bilbao-Guillerna</p>
15:10-15:30	<b>Coffee</b>			
15:30-16:30	<p><b>Keynote Address:</b> <b>Professor Philip Maini (Mathematical Institute, Oxford University): Multi-scale Mathematical Modelling of Spatio-temporal Dynamics of Cancer</b></p>			
16:30-16:40	<b>Coffee</b>			
16:40-18:40	<p><b>Genomics, Transcriptomics, PCR and Biomarkers</b></p> <p><i>A method for evaluating quality of clustering DNA fragments encoded in different nucleotide frequencies</i>, Chon-Kit Kenneth Chan, Arthur L. Hsu, Sen-Lin Tang, Saman K. Halgamuge</p> <p><i>Chronic Hepatitis Classification using SNP data and Data Mining Techniques</i>, Saangyong Uhm, Dong-Hoi Kim, Sung Won Cho, Jae Youn Cheong, Jin Kim</p> <p><i>A Novel Screening Method of Dextran Binding Antibody Using Phage Display Libraries</i>, Duwoon Kim, Seok-Ryel Kim, Donal F. Day, Myung-Joo Oh</p> <p><i>A Simple DNA Chip for Diagnosis of Most Common Corneal Dystrophies Caused by βigh3 Gene Mutations</i>, So Young Yoo, Tae-im Kim, Sang Yup Lee, Eng Kweon Kim, Ki Chang Keum, Nae Choon Yoo, Won Min Yoo</p> <p><i>ConPath: Scaffold Analysis Tool using Mate-Pair Informaiton for Genome Sequencing</i>, Pan-Gyu Kim, Hwan-Gue Cho, Kiejung Park</p> <p><i>MarSelHR: A Haplotype Reconstruction System using Linkage Disequilibrium</i>, Sang-Soo Yeo, Sung Kwon Kim</p>	<p><b>Biomedical Image Analysis</b></p> <p><i>Fish Disease Diagnosis System Based on Image Processing of Pathogens' Microscopic Images</i>, Jeong-Seon Park, Myung-Joo Oh, and Soonhee Han</p> <p><i>A Fast and Robust Approach to Liver Nodule Detection in MR Images</i>, Dongjiao Lu, Jue Zhang, Xiaoying Wang, Jing Fang</p> <p><i>The Defect Detection Using Human Visual System and Wavelet Transform in TFT-LCD Image</i>, Jong-Hwan Oh, Byoung-Ju Yun, and Kil-Houm Park</p> <p><i>Joint Reconstruction and Registration Using Level Sets: Application to the Computer-Aided Ablation of Atrial Fibrillation</i>, Jonghye Woo, Byung-Woo Hong, Sunil Kumar, Indranil Basu Ray, C.-C. Jay Kuo</p> <p><i>A Conformal Mapping Approach for Shoe Last Design</i>, Sikyung Kim, Mohammad Mynuddin Gani Mazumder and Se Jin Park</p> <p><i>Parametric Reconstruction of Boundaries and Surfaces for Medical Imaging</i>, Joseph Kolibal, Daniel Howard</p>	<p><b>Infectomics I</b></p> <p><i>Early, Easy, Inexpensive Diagnosis - An Urgent Need For Global TB Control</i>, Parul Chakrabarti</p> <p><i>Signal Analysis of Pathogens' Genomic Sequences</i>, Paul Dan Cristea, Rodica Aurora Tuduce, Jan Cornelis</p> <p><i>CglE's Role in Meningitic E. coli K1 Infection and Energy Metabolism Defined by Bioinformatic and Molecular Characterization</i>, Hong Cao, Lidan Chen, Jun Yang, Shuji Gong, Hao Zhou, Sheng-He Huang</p> <p><i>Bioinformatics Analysis of the Envelope Glycoprotein and Construction of Infectious RNA Transcripts of Dengue Virus</i>, Hua Zhong, Shuji Gong, Wei Zhao, Lidan Chen, Hao Zhou, Liang Peng, Hong Cao</p> <p><i>B-cell epitope mapping of Helicobacter pylori neutrophil-activating protein</i>, Chibing Gong, Yan Li, Ming Li, Jun Luo, Hong Cao, Min Long</p>	<p><b>Rough Sets for Bioscience</b></p> <p><i>Biologically-Inspired Adaptive Learning: A Near Set Approach</i>, James F. Peters, Shabnam Shahfar, Sheela Ramanna, Tony Szturm</p> <p><i>Evaluation of a Dominance-Based Rough Set Approach to Interface Design</i>, Timothy Maciag, Daryl H. Hepting, Robert J. Hilderman, Dominik Slezak</p> <p><i>Rough Set Based Information Retrieval from Argumentative Data Points in Weblogs</i>, Sea Woo Kim, Chin-Wan Chung</p> <p><i>On the Use of Rough Sets for Artefact Extraction from EEG Datasets</i>, Kenneth Revett</p> <p><i>Approximation Degrees in Decision Reduct-Based MRI Segmentation</i>, Sebastian Widz, Dominik Slezak</p> <p><i>Rough Sets and "Few-Objects-Many-Attributes" Problem: The Case Study of Analysis of Gene Expression Data Sets</i>, Dominik Slezak</p>
19:00-21:00	<b>Banquet</b>			

9:00-10:00	<b>Keynote Address:</b>	<b>Professor Kwang-Hyun Cho (KAIST): Systems Biology as a Merger of Mathematics, Computer Simulations, and Life Sciences</b>		
10:00-10:15	<b>Coffee</b>			
10:15-12:30	<p><b>Microarrays</b></p> <p><i>A Graph Theoretic Classification of Gene Expression Microarray Data of Cancer</i>, Saejoon Kim</p> <p><i>A Direct Clustering Method for Imperfect Microarray Data without Imputation</i>, Taegyun Yun, Suyoung Kim, Taeho Hwang and Gwan-Su Yi</p> <p><i>k-TSN(k-Top Scoring N): Microarray data classification based on rank-comparison decision rules</i>, Youngmi Yoon, Sangjay Bien, Sanghyun Park</p> <p><i>DNA Microarray Classification with Compact Single Hidden-Layer FeedForward Neural Networks</i>, Hieu Trung Huynh, Jung-Ja Kim, Yonggwon Won</p> <p><i>Detecting Regulator-Target Gene Pairs from Expression Profile of Microarray</i>, Hee-Jeong Jin, Ji-Yeon Lee and Hwan-Gue Cho</p> <p><i>An Efficient Two-Phase Algorithm to Find Gene-Specific Probes for Large Genomes</i>, Seung-Ho Kang, Mun-Ho Choi, In-Seon Jeong, Hyeong-Seok Lim</p> <p><i>Selecting Informative Genes From Microarray Data For Cancer Classification With Genetic Programming Classifier Using K-Means Clustering And SNR Ranking</i>, Supoj Hengpraprom, Prabhas Chongstitvatana</p>	<p><b>Infectomics II</b></p> <p><i>Game Theory Models for Infectious Diseases</i>, Sheng-He Huang, Wensheng Zhou, Ambrose Jong, Huan Qi</p> <p><i>Role of Mononuclear Phagocytes in Pathogenesis of SARS</i>, Li He, Yanqing Ding, Qingling Zhang, Ping Liang, Xingyuan Liu, Sheng-He Huang</p> <p><i>Principal Component Analysis of Infectomes in Human Brain Endothelial Cell after C. neoformans infection</i>, Ambrose Y. Jong, Luo Feng, Steven H. M Chen and Sheng-He Huang</p> <p><i>Genomic Survey of Cryptococcus neoformans-induced Gene Expression Profiling in human brain micro-vascular endothelial cells</i>, Ambrose Jong, Chun-Hua Wu, Wensheng Zhou, Han-Min Chen, Sheng-He Huang</p> <p><i>Mathematical modeling of dynamic host responses to HBV Infection</i>, Changjiang Long, Huan Qi, Sheng-He Huang</p>	<p><b>Genetic and Evolutionary Computation and Heuristic Search II</b></p> <p><i>Genetic algorithm that can dynamically change number of individuals and accuracy</i>, Akihiko Tsukahara, Akinori Kanasugi</p> <p><i>An Evolutionary Approach to Speech Quality Estimation</i>, Adil Raja, Raja Muhammad Atif Azad, Colin Flanagan, Conor Ryan</p> <p><i>A Destructive Evolutionary Algorithm Process</i>, Joe Sullivan, Conor Ryan</p> <p><i>A new approach to calculate the best context of a tree and its application in defining a constructive, context aware crossover for GP</i>, Hammad Majeed, Conor Ryan</p> <p><i>Capturing Domain Relevant Functionality Through Schematic Manipulation for Genetic Programming</i>, Gearoid Murphy, Conor Ryan, Daniel Howard</p> <p><i>Developmental Evaluation in Genetic Programming: A Position Paper</i>, R.I.(Bob) McKay, Daryl Essam, Xuan Hoai Nguyen</p> <p><i>Maintaining Diversity in EDAs for Real-Valued Optimisation Problems</i>, David Wallin, Conor Ryan</p>	<p><b>Neuroscience</b></p> <p><i>Measurement and Analysis of "Yes" and "No" Responses by Auditory Stimuli Questions in Human EEG</i>, Ssanghee Seo, Haifeng Chen, Donghee Ye, Jungtae Lee and Kyungjae Ha</p> <p><i>Determination of Effects of Different Music on Frontal Muscle by using EMG signal</i>, Sadik Kara, Pinar Ozel</p> <p><i>A Neurostimulator Design for Long-term Animal Experiments</i>, Jingai Zhou, Se Joon Woo, Se Ik Park, Seung Woo Lee, Hum Chung, Sung June Kim</p> <p><i>Learning to Decode Instantaneous Cognitive States from Brain Images</i>, Rafael Ramirez, Enric Cecilia</p> <p><b>Molecular Simulation</b></p> <p><i>A Web-based Interactive Monitoring System for Molecular Simulation</i>, Jun Lee, Taedoo Hwang, Jonghyun Lee, SungjunPark, YoungJin Choi, Karpjoo Jeong, Jee-In Kim</p>
12:30-14:00	<b>Lunch</b>			
14:00-16:00	<p><b>Proteomics II</b></p> <p><i>Protein Structure Computation</i>, Gwyn Skone, Stephen Cameron</p> <p><i>Estimating the Reliability of Protein-Protein Interactions</i>, Byungkyu Park and Kyungsook Han</p> <p><i>Protein Classification by Matching 3D Structures</i>, Slobodan Kalajdziski, Georgina Mirceva, Kire Trivodaliev, Danco Davce</p> <p><i>Classification of Cell Membrane Proteins</i>, Seyed Koosha Golmohammadi, Lukasz Kurgan, Brendan Crowley, Marek Reformat</p> <p><i>Identifying Functional Groups by Finding Cliques and Near-Cliques in Protein Interaction Networks</i>, Kyungsook Han, Guangyu Cui, Yu Chen</p> <p><i>Proteomic Approach to Screen Peanut Genotypes with Enhanced Nutritional Qualities</i>, Ramesh Katam, Hemanth Kn. Vasanthala, Sheikh M. Basha</p>	<p><b>Cancer Screening</b></p> <p><i>A Proposed Decision-Support System for (Renal) Cancer Imaging</i>, Stuart Golodetz, Irina Voiculescu, Stephen Cameron</p> <p><i>Computer-Aided Diagnosis of Cross-Institutional Mammograms using Support Vector Machines with Feature Elimination</i>, Saejoon Kim, Sejong Yoon, Donghyuk Shin</p> <p><i>Early Detection of Prostate Cancer with Classifier Ensembles</i>, Wichard, Cammann, Stephan, Tolxdorff</p> <p><i>Application of the GM(h,N) Model to Analyze the Influence Factor in Cervical Cancer Screening</i>, Su-Or Chen, Chih-Cheng Huang, Mei-Li You, Chaang-Yung Kung</p> <p><i>Mammography Phantom Studies Using 3D Electrical Impedance Tomography with Numerical Forward Solver</i>, Umer Zeeshan Ijaz, Bong Seok Kim, Tzu-Jen Kao, Anil Kumar Khambampati, Sin Kim, Min Chan Kim, Jonathan C. Newell, David Isaacson, Kyung Youn Kim</p> <p><i>Textural Classification of Mammographic Parenchymal Patterns with the SONNET Self-Organizing Neural Network</i>, Daniel Howard, Simon C Roberts, Adrian Brezulianu, Conor Ryan</p>	<p><b>Bionetics</b></p> <p><i>Adaptive Data Dissemination in Sensor Networks using WPDD</i>, Falko Dressler, Reinhard German, Bettina Krüger</p> <p><i>Noise-Assisted Control in Information Networks</i>, Naoki Wakamiya, Kenji Leibnitz, Masayuki Murata</p> <p><i>Molecular Communication - A Biochemically-Engineered Communication System</i>, Yuki Moritani, Satoshi Hiyama, Tatsuya Suda</p> <p><i>Design of Bio-inspired Fault-tolerant Adaptive Routing Based on Enzymatic Feedback Control in the Cell: Towards Averaging Load Balance in the Network</i>, Akiyuki Iwasaki, Tadasuke Nozoe, Takeshi Kawachi, Masahiro Okamoto</p> <p><i>Leveraging Biologically-inspired Mobile Agents Supporting Composite Needs of Reliability and Timeliness in Sensor Applications</i>, Pruet Boonma, Qi Han, Junichi Suzuki</p>	<p><b>Classifier Research</b></p> <p><i>Genetic Algorithm Approach to Construction of Specialized Multi-Classifiers: Application to DNA Analysis</i>, Romesh Ranawana, Vasile Palade, Daniel Howard</p> <p><i>Knowledge Discovery via Incremental Learning</i>, Tristan Ling, David P. Johns, Byeong Ho Kang, Justin Walls, Gil-Cheol Park</p> <p><i>A Fast Heuristic Algorithm for Similarity Search in Large DNA Databases</i>, In-Seon Jeong, Kyoung-Wook Park, Hyeong-Seok Lim</p>
16:00-16:15	<b>Coffee</b>			
16:15-17:00	<b>Best Paper Awards – Conference Close</b>			