October 11th, 2007  FBIT 2007

Registration opens 09:00~

9:30-10:00 Opening Address: V.I.P. Conference Overview by Conference Chairs

10:00-11:00 Keynote Address: Professor Sang Yup Lee (Distinguished Professor, KAIST): Systems and Synthetic Biotechnology

11:00-15:15 Coffee

11:15-12:30 Cell Biology & Biotechnology I
- Signaling Networks Involved in Retinal Degeneration in Mice, Jayalakshmi Krishnan, Gwang Lee, Sang-Uk Kim, Sang-Joon Kim
- Proteomic Analysis of a Response to Long-Chain Fatty Acid in Escherichia coli and its Application, Mee-Jung Han, Jeong Woock Lee, Sang Yup Lee, Jong Shin Yoo
- Modeling of the Effect of Crossstalk in Apoptotic Pathways on Caspase-3 Activation, Jinhi Kim, Gwan-Su Yi
- Screening of Apoptotic Genes by Morphological Analysis of High Throughput Fluorescence Microscopy Images, Yongsu Chae, Soo Jung Kim, Desok Kim

12:30-13:30 Lunch

13:30-15:30 Biomedicine I
- Analysis and Optimization of a Wireless Communication System for an Ingestable Sensor Microsystems, Nizamettin Aydin, Tughrul Arslan
- Fractal Analysis of Umbilical Artery Doppler Signals From Normal Pregnant Subject Using Hurst Exponent, Sadik Kara, Fatma Laftuglu, Mehmet Guney
- Calculation of Joint Reaction Forces in the Equine Distal Forelimb During Walking and Trotting, Jonathan Simon Merritt, Helen Margaret Sarah Davies, Colin Burrell, Marcus Gordon Pandy
- Towards a Mobile and Context-Aware Technology Based Healthcare System, Jae-ju Song, Seoksoo Kim, Gil-doel Park
- Ontology-based Semi-automatic Construction of Bayesian Network Models for Diagnosing Diseases in E-health Applications, Bom-Jun Jeon, In-Young Ko
- Classification of Unbalanced Medical Data with Weighted Regularized Least Squares, Nguyen Ha Vo, Youngkwon Won

15:30-15:50 Coffee

15:50-18:30 Biomedicine II
- Analysis and Optimization of Colonoscopy Skills Using the KAIST-Ewha Colonoscopy Simulator II, Sun Young Ji, Kum Hei Ryu, Hyun Soo Woo, Woonjin Ahn, Woon Seok Kim, Doo Yong Lee
- A Pilot Study of a Thermal Display Using a Miniature Tactor for Upper Extremity Prosthesis, Keehoon Kim, Ji Edward Colgate, Michael A. Peshkin
- A Miniature Tactor Design for Upper Extremity Prosthesis, Keehoon Kim, Ji Edward Colgate, Michael A. Peshkin, Julio J. Santos-Munne, Alex Makhlin
- Design and Applications of a Pen-Like Haptic Interface with Texture and Vibrotactile Display, Ki-Uk Kyung, Jun-Young Lee, Junsak Park
- An Effective Soft Tissue Characterization Method for Haptic Rendering of Soft Tissue Deformation in Medical Simulation, Bummo Ahn, Jung Kim
- Discrimination of Virtual Environments Under Visual and Haptic Rendering Delays, In Lee, Seungmoon Choi

15:50-18:30 Proteomics I
- Prediction of Interacting Motif Pairs using Stochastic Boosting, Jisu Kim, Byungkyu Park, Kyungsook Han
- Resonant recognition model for prediction of ‘lead-in regions’ in proteins, Mohenish Joswaiwal, S R Mahadeva Prasanna, Latha Rangan
- Analysis of HCV Envelope Proteins Interacting with Human Proteins, Dong Nepal, Kyungsook Han
- Discovering Inter-Domain Paths between Hepatitis C Virus NSSA and Human Liver Proteins, Guang-Zheng Zhang, Kyungsook Han
- Multi-Layered Networks for Visualizing the Interactions between Heterogeneous Proteins, Yu Chen, Guangyu Cui, Kyungsook Han
- Computational Strategies for Protein Quantitation in 2D Electrophoresis Gel Image Processor for Matlab, Umar Zeeshan Ijaz, Safiee Ullah Chaudhary, Moon Sang Don, Kyung Youn Kim
- Feature Extraction in Spatially-Conserved Regions and Protein Functional Classification, Bum-Ju Lee, Heon Gyu Lee, Dae-sung Kim, Koon Ho Ryu

18:30-19:00 Haptics
- Quantitative Analysis of Colonoscopy Skills Using the KAIST-Ewha Colonoscopy Simulator II, Sun Young Ji, Kum Hei Ryu, Hyun Soo Woo, Woonjin Ahn, Woon Seok Kim, Doo Yong Lee
- Haptic Rendering of Drilling into Femur Bone with Graded Stiffness, Jang Ho Cho, Hoeryong Jung, Kyungsook Lee, Doo Yong Lee, and Hyung Soo Ahn
- A Study of a Thermal Display Using a Miniature Tactor for Upper Extremity Prosthesis, Keehoon Kim, Ji Edward Colgate, Michael A. Peshkin
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19:00-20:00 Genetic and Evolutionary Computation and Heuristic Search I
- Interactive Fuzzy Multi-objective Ant Colony Optimization with Linguistically Quantified Decision Functions for Flexible Job Shop Scheduling Problems, Li-Ning Xing, Ying-Wu Chen and Ke-Wei Yang
- An Efficient Global Optimization of Neural Networks by Using Hybrid Method, Yong-Hyun Cho, Seong-Jun Hong
- Fast Parallel Molecular Algorithms for DNA-Based Computation: Solving the Elliptic Curve Discrete Logarithm Problem over GF(2^64), Kenli Li, Shuting Zuo, Jin Xv
- DNA Inspired Digital Signal Pattern Matching Algorithm, Ok hyuk Kwon, Kyu yen Wang, Ji yoon Kim, Jeohyun Park, Duk jin Chung, and Chong Ho lee
- Adaptive Classifier Selection System using Context-driven Genetic Algorithm, Xi Wang, Phillip Kyu Rhee
- NEFLR: A New Neuro-Fuzzy System for Episodic Reinforcement Learning Tasks, Babak Behzad, Reza Safabakhsh
- Overview of Object Detection and Image Analysis by Means of Genetic Programming Techniques, Krzysztof Krawiec, Daniel Howard, Mengjie Zhang

20:00-22:30 Presentation of Awards, Final Remarks of Conference Chairs