

Workshop on Algorithm, Bioinformatics, and Computation Theory

Date: Friday, 14 Dec. 2012

Room: 3F 308.309

Session: Graph Theory and Algorithms (09:30~11:30 am)

Chair: **Prof. Lih-Hsing Hsu**, Providence University

- 1163 An Upper Bound of the Rainbow Connection Number in RTCC Pyramids
Fu-Hsing Wang, Ze-Jian Wu, and Yann-Jong Hwang
- 1054 On the Hamiltonian-Connectedness for Graphs Satisfying Ore's Theorem
Shin-Shin Kao, Yuan-Kang Shih, and Hsun Su
- 1057 On Total Covers of Block-Cactus Graphs
Yu-Ting Li, Jia-Jie Liu, and Yue-Li Wang
- 1037 Randomized Self-Stabilization under Distributed Daemon for 6-Coloring Planar Graph
Chi-Hung Tzeng, Jehn-Ruey Jiang, Shing-Tsaan Huang, and Cheng-Feng Yeh
- 1042 An $O^*(1.4786n)$ -Time Algorithm for the Maximum Induced Matching Problem
Maw-Shang Chang, Ling-Ju Hung, and Chau-An Miao
- 1175 The Longest Path Problem on Distance-Hereditary Graphs
Yi-Lu Guo, Chin-Wen Ho, and Ming-Tat Ko
- 1208 Characterizing and Recognizing Probe Block Graphs
Van Bang Le and Sheng-Lung Peng

Session: Graph Theory and Bioinformatics (1:00~2:30 pm)

Chair: **Prof. Yue-Li Wang**, National Taiwan University of Science and Technology

- 1128 2-Rainbow Domination and Its Practical Variation on Weighted Graphs
Chung-Kung Yen
- 1028 Balancing a Complete Signed Graph by Editing Edges and Deleting Nodes
Bang Ye Wu and Jia-Fen Chen
- 1095 A New Filtration Method and a Hybrid Strategy for Approximate String Matching
Chia-Wei Lu, Chin-Lung Lu, and R. C. T. Lee
- 1134 A Novel Approximation Algorithm for Minimum Geometric Disk Cover Problem with Hexagon Tessellation
Chi-Chang Chen, Chi-Yu Chang, and Cheng-Chun Liu
- 1053 Protein Structure Comparison and Visualization Tools on Cloud Platform
Yaw-Ling Lin, Chen-En Hsieh, Guan-Jie Hua, and Che-Lun Hung

Session: Interconnection Networks and Combinatorial Algorithms (2:45~4:15 pm)

Chair: **Prof. Y-Chuang Chen**, Minghsin University of Science and Technology

- 1080 Ranking and Unranking Algorithms for Loopless Generation of
Non-Regular Trees
Ro-Yu Wu, Jou-Ming Chang, An-Hang Chen, and Ming-Tat Ko
- 1081 Completely Independent Spanning Trees on Complete Graphs, Complete
Bipartite Graphs and Complete Tripartite Graphs
*Kung-Jui Pai, Shyue-Ming Tang, Jou-Ming Chang, and Jinn Shyong
Yang*
- 1046 On the Min-Max 2-Cluster Editing Problem
*Li-Hsuan Chen, Maw-Shang Chang, Chun-Chieh Wang, and Bang Ye
Wu*
- 1127 Spatial Query Processing on Distributed Databases
Jiun-Wen Bai, Jun-Zhe Wang, and Jiun-Long Huang
- 1027 Internally Disjoint Paths in a Variant of the Hypercube
Tsung-Han Tsai, Y-Chuang Chen, and Jimmy J.M. Tan