

Wong Lim Soon

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Subject: CBL Update --- April 2011

Dear CBL Members,

1/

Congratulations to Liu Bing for successfully defending his PhD thesis on "Probabilistic Approximation and Analysis Techniques for Bio-Pathway Models".

2/

We were quite productive, publishing three rank-1 papers and two other papers this last month:

- Zhengkui Wang, Yue Wang, Kian-Lee Tan, Limsoon Wong, Divyakant Agrawal. "eCEO: An efficient Cloud Epistasis cOMputing model in genome-wide association study". *Bioinformatics*, 27(8):1045--1051, April 2011.
- Guimei Liu, Mengling Feng, Yue Wang, Limsoon Wong, See-Kiong Ng, Tzia Liang Mah, Edmund Jon Deon Lee. "Towards Exploratory Hypothesis Testing and Analysis". *Proceedings of 27th IEEE International Conference on Data Engineering*, pages 745--756, Hannover, Germany, April 2011.
- Song Gao, Niranjan Nagarajan, Wing-Kin Sung. "Opera: Reconstructing Optimal Genomic Scaffolds with High-Throughput Paired-End Sequences". *Proceedings of 15th Annual International Conference on Research in Computational Biology (RECOMB)*, pages 437--451, Vancouver, Canada, March 2011.
- Melvin Zhang, Hon Wai Leong. "Survey of Algorithms for Conserved Gene Cluster Discovery". *Proceedings of 4th Annual Meeting of Asian Association for Algorithms and Computation (AAAC)*, pages ???--???, NTHU, Hsinchu, Taiwan, April 2011.
- Zhong Zhou, Melvin Zhang, FanChang Hao, Hon Wai Leong. "On Two Variations of the Reversal Median Problem". *Proceedings of International Conference on Mathematical and Computational Biology (ICMCB)*, pages ???--???, Melaka, Malaysia, April 2011.

3/

We were also busy with two events last month. Specifically, we hosted the following seminar:

- [CS Seminar: Combinatorial Biomarker Discovery](#)
Raymond Ng, University of British Columbia
7 April 2011 @ 4pm in Video Conference Room (COM1-02-13)

And the following two workshops:

- [3rd NUS-University of Tokyo Joint Workshop on Computational Systems Biology](#)
19 April 2011 in Video Conference Room (COM1-02-13)
- [2nd IPM-NUS Workshop on Computational Biology](#)
5-7 April 2011 at the Institute for Research in Fundamental Sciences (IPM), Tehran, Iran.

4/

We gave the following talks at the two workshops mentioned above:

- Benjamin Gyori. Computational Modeling of DNA Damage Response Under Oxidative Stress. Talk at 3rd NUS-U. Tokyo Joint Workshop on Computational Systems Biology, School of Computing, NUS, Singapore, 19 April 2011.
- Bing Liu. A Platform-Aware GPU Realization of a Systems Biology Application. Talk at 3rd NUS-U. Tokyo Joint Workshop on Computational Systems Biology, School of Computing, NUS, Singapore, 19 April 2011.
- Sucheendra Kumar Palaniappan. A Hybrid Factored Frontier Algorithm for Dynamic Bayesian Networks. Talk at 3rd NUS-U. Tokyo Joint Workshop on Computational Systems Biology, School of Computing, NUS, Singapore, 19 April 2011.
- Wing-Kin Sung. Assembly by Short Paired-End Reads. Talk at 2nd IPM-NUS Workshop on Computational Biology, Institute for Research in Fundamental Sciences (IPM), Tehran, Iran, 7 April 2011.
- Wing-Kin Sung. Analyzing ChIP-Seq Data. Talk at 2nd IPM-NUS Workshop on Computational Biology, Institute for Research in Fundamental Sciences (IPM), Tehran, Iran, 7 April 2011.
- Limsoon Wong. Enabling Reproducible Gene Expression Analysis Using Biological Pathways. Talk at 2nd IPM-NUS Workshop on Computational Biology, Institute for Research in Fundamental Sciences (IPM), Tehran, Iran, 6 April 2011.
- Limsoon Wong. Impact on MicroRNAs on Organization of Protein Interactions and Formation of Protein Complexes. Talk at 2nd IPM-NUS Workshop on Computational Biology, Institute for Research in Fundamental Sciences (IPM), Tehran, Iran, 6 April 2011.

I think this is about it. If I missed out anything, please drop me a note.

Regards,
Limsoon