

Editorial for Emerging Computational Methods for the Life Sciences Workshop Special Issue

Judy Qiu

*School of Informatics and Computing and Pervasive Technology Institute
Indiana University, Bloomington IN 47408, USA
xqiu@indiana.edu*

This collection of papers is selected from those presented at the Emerging Computational Methods for the Life Sciences Workshop [1] of ACM HPDC 2010 conference [2], Chicago, Illinois June 22 2010. The papers [3,4,5,6,7,8,9,10,11,12] were all enhanced over the conference versions and separately reviewed.

I would like to thank Ian Foster and Geoffrey Fox for their help putting this special issue together.

References

- 1) Emerging Computational Methods for the Life Sciences Workshop of ACM HPDC 2010 conference, Chicago, Illinois, June 22, 2010 <http://salsahpc.indiana.edu/ECMLS2010/index.html>
- 2) 19th ACM International Symposium on High Performance Distributed Computing HPDC Chicago, Illinois, June 20-25, 2010 <http://hpdc2010.eecs.northwestern.edu/index.html>
- 3) Rory Carmichael, Patrick Braga-Henebry, Douglas Thain, Scott Emrich, Biocompute 2.0: An improved collaborative workspace for data intensive bio-science, Concurrency & Computation: Practice & Experience, this issue CPE-10-0195.R1
- 4) Thilina Gunarathne, Tak-Lon Wu, Jong Youl Choi, Seung-Hee Bae, Judy Qiu, Cloud Computing Paradigms for Pleasingly Parallel Biomedical Applications, Concurrency & Computation: Practice & Experience, this issue CPE-10-0209.R1
- 5) Fábio Coutinho, Eduardo Ogasawara, Daniel de Oliveira, Vanessa Braganholo, Alexandre A. B. Lima, Alberto M. R. Dávila, Marta Mattoso, Many Task Computing for Orthologous Genes Identification in Protozoan Genomes using Hydra, Concurrency & Computation: Practice & Experience, this issue CPE-10-0207.R1
- 6) Jared Wilkening, Andreas Wilke, Elizabeth M. Glass, Narayan L. Desai, Folker Meyer, An Experience Report: Porting the MG-RAST Metagenomic Data Analysis Pipeline to the Cloud, Concurrency & Computation: Practice & Experience, this issue CPE-10-0241.R1
- 7) Ankit Agrawal, Sanchit Misra, Daniel Honbo, Alok Choudhary, Parallel Pairwise Statistical Significance Estimation of Local Sequence Alignment Using MPI Library, Concurrency & Computation: Practice & Experience, this issue CPE-10-0208.R1
- 8) J. Kim, W. Huang, S. Maddineni, F. Aboul-ela, and S. Jha, Energy Landscape Analysis for Regulatory RNA Finding using Scalable Distributed Cyberinfrastructure, Concurrency & Computation: Practice & Experience, this issue CPE-10-0262.R1
- 9) Savvas Petrou, Terence M Sloan, Muriel Mewissen, Thorsten Forster, Michal Piotrowski, Bartosz Dobrzelecki, Peter Ghazal, Arthur Trew, Jon Hill, Optimization of a parallel permutation testing function for the SPRINT R package, Concurrency & Computation: Practice & Experience, this issue CPE-10-0187.R1
- 10) Sergio E. D. Dias and Abel J. P. Gomes, GPU-based Triangulations of Blinn Molecular Surfaces, Concurrency & Computation: Practice & Experience, this issue CPE-10-0194.R1
- 11) Jong Youl Choi, Seung-Hee Bae, Judy Qiu, Bin Chen, David Wild, Browsing Large Scale Cheminformatics Data with Dimension Reduction, Concurrency & Computation: Practice & Experience, this issue CPE-10-0205.R1

12) Omkar Tilak, Andrew Hoblitzell, Snehasis Mukhopadhyay, Qian You, Shiaofen Fang, Yuni Xia, Joseph Bidwell, Multi-Level Text Mining for Bone Biology, Concurrency & Computation: Practice & Experience, this issue CPE-10-0168.R1