

A New Probabilistic Generative Model of Parameter Inference in Biochemical Networks 758
P. Lecca, Centre for Computational & Systems Biology, The Microsoft Research – Univ. of Trento, Italy
A. Palmisano, Centre for Computational & Systems Biology, The Microsoft Research – Univ. of Trento, Italy
C. Priami, Centre for Computational & Systems Biology, The Microsoft Research – Univ. of Trento, Italy
G. Sanguinetti, University of Sheffield, United Kingdom

HSP-HMMER: A Tool for Protein Domain Identification on a Large Scale 766
Bhanu Rekapalli, Joint Institute of Computational Sciences (UTK-ORNL), United States
Christian Halloy, Joint Institute of Computational Sciences (UTK-ORNL), United States
Igor B. Zhulin, Joint Institute of Computational Sciences (UTK-ORNL), United States

Construct Anticancer Drug-Drug Correlation Network 771
Jiao Li, Tsinghua University, China
Pamela Crowell, Idaho State University, United States
Jake Yue Chen, Indiana University Purdue University Indianapolis, United States

A New Protein Motif Extraction Framework based on Constrained Co-Clustering 776
Francesca Cordero, University of Torino, Italy
Alessia Visonti, University of Torino, Italy
Marco Botta, University of Torino, Italy

Global-to-Local Representation and Visualization of Molecular Surfaces Using Deformable Models 782
Nicolay Postarnakevich, San Francisco State University, United States
Rahul Singh, San Francisco State University, United States

A Novel Approach to Detect Copy Number Variation Using Segmentation and Genetic Algorithm 788
Chihyun Park, Yonsei University, Korea
Youngmi Yoon, Yonsei University - Gachon University of Medicine & Science, Korea
Jaegyo Ahn, Yonsei University, Korea
Myungjin Moon, Yonsei University, Korea
Sanghyun Park, Yonsei University, Korea

An Improved Shrinkage Estimator to Infer Regulatory Networks with Gaussian Graphical Models 793
Kevin Kontos, Université Libre de Bruxelles, Belgium
Gianluca Bontempi, Université Libre de Bruxelles, Belgium

Using Dynamic Bayesian Networks to Infer Gene Regulatory Networks from Expression Profiles 799
Akther Shermin, Macquarie University, Australia
Mehmet A. Orgun, Macquarie University, Australia

Poster Papers

On a Discretizable Subclass of Instances of the Molecular Distance Geometry Problem 804
Carlile Lavor, State University of Campinas, Brazil
Leo Liberti, LIX, École Polytechnique, France
Antonio Mucherino, LIX, École Polytechnique, France
Nelson Maculan, Federal University of Rio de Janeiro, Brazil

Measuring Coherence between Electronic and Manual Annotations in Biological Databases 806
Catia Pesquita, University of Lisbon, Portugal
Daniel Faria, University of Lisbon, Portugal
Francisco M. Couto, University of Lisbon, Portugal
Rui Lopes, University of Lisbon, Portugal