15th IEEE International Workshop on High Performance Computational Biology – HiCOMB 2016

Workshop Theme

High-performance computing is an integral part of research and development in bioinformatics/computational biology and medical and health informatics. The large size and complexity of biological data sets, and inherent complexity of the underlying biological problems have collectively resulted in large run-time and memory requirements. The goal of this workshop is to provide a forum for discussion of latest research in developing high-performance computing solutions to data- and compute-intensive problems arising from all areas of computational life sciences. We are especially interested in parallel and distributed algorithms, memory-efficient algorithms, large scale data mining techniques, including approaches for big data and cloud computing, algorithms on multicores, manycores and GPUs, and design of high-performance software and hardware for biological applications.

Workshop Co-Chairs

Srinivas Aluru, Georgia Institute of Technology

David A. Bader, Georgia Institute of Technology

Program Chairs

Ananth Kalyanaraman, Washington State University

Jaroslaw Zola, University at Buffalo, SUNY

Program Committee

Yuri Alexeev, Argonne National Lab

Aydin Buluc, Lawrence Berkeley National Lab

Robert Cottingham, Oak Ridge National Lab

Ananth Grama, Purdue University

Marta Kasprzak, Poznan University of Technology, Poland

Patricia Kovatch, Mount Sinai Hospital

Ben Langmead, Johns Hopkins University

Kamesh Madduri, Penn State

Alba Cristina Magalhaes Alves de Melo, University of Brasilia, Brasil

Alex Pothen, Purdue University

Bertil Schmidt, Johannes Gutenberg University Mainz, Germany

Shannon Steinfadt, Los Alamos National Lab

Michela Taufer, University of Delaware

Sharma Thankachan, Georgia Tech