

CALL FOR PARTICIPATION
Workshop on Computational Advances
for Next Generation Sequencing (CANGS 2011)
in conjunction with ICCABS 2011

Feb. 4, 2011, Holiday Inn - in the Walt Disney World Resort, Orlando, Florida

Workshop Organizers:

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Alex Zelikovsky, *Georgia State University, alexz@cs.gsu.edu*

Massively parallel DNA and RNA sequencing have become widely available, reducing the cost by several orders of magnitude and placing the capacity to generate gigabases to terabases of sequence data into the hands of individual investigators. These next-generation technologies have the potential to dramatically accelerate biological and biomedical research by enabling the comprehensive analysis of genomes and transcriptomes to become inexpensive, routine and widespread. The exploding volume of data has spurred the development of novel algorithmic approaches for primary analyses of sequence data in such areas as error correction, de novo genome assembly, novel transcript discovery, virus quasispecies assembly, etc. This workshop will bring together specialists to discuss the various mathematical and computational challenges presented by next-generation sequencing technologies.

This meeting is by invitation only. If you would like to inquire about the possibility of being invited, please contact the organizers by January 10, 2011.

Workshop Registration Fees:

IEEE Members: \$300

IEEE Non-members and late registration (after Jan. 20, 2011): \$400

IEEE Student members: \$100

IEEE Student non-members: \$150

IEEE Life/Retired members: \$100

Registration to the workshop has to be done through [regonline](http://www.reg-online.com)
(<https://www.reg-site.com/con-reg/default.asp?Conid=116>)