

IWBDA 2014

6th International Workshop on Bio-Design Automation
June 11-12 Boston, MA



The Sixth International Workshop on Bio-Design Automation

June 11-12, 2014

The Sixth International Workshop on Bio-Design Automation (IWBDA) at Boston University will bring together researchers from the synthetic biology, systems biology, and design automation communities to discuss concepts, methodologies and software tools for the computational analysis and synthesis of biological systems.

The field of synthetic biology, still in its early stages, has largely been driven by experimental expertise, and much of its success can be attributed to the skill of the researchers in specific domains of biology. There has been a concerted effort to assemble repositories of standardized components; however, creating and integrating synthetic components remains an ad hoc process. Inspired by these challenges, the field has seen a proliferation of efforts to create computer-aided design tools addressing synthetic biology's specific design needs, many drawing on prior expertise from the electronic design automation (EDA) community. The IWBDA offers a forum for cross-disciplinary discussion, with the aim of seeding and fostering collaboration between the biological and the design automation research communities.

General Chair

Aaron Adler, *BBN*

Finance Chair

Traci Haddock, *Boston U.*

Program Committee Chairs

Patrick Cai, *U. Edinburgh*

Michal Galdzicki, *U. Washington*

Local Chair

Traci Haddock, *Boston U.*

Swati Carr, *Boston U.*

Publication Chairs

Nathan Hillson, *JBEI*

Jackie Quinn, *Autodesk*

Organized by

Bio-Design Automation
Consortium (BDAC)

Topics of interest

- Engineering methods inspired by biology
- Domain specific languages for synthetic biology
- Data exchange standards and models for synthetic biology
- Design methodologies for synthetic biology
- Standardization of biological components
- Computer-aided modeling and abstraction techniques
- Automated assembly techniques

Abstract Submission

Abstracts for oral and poster presentations should be two pages long, following ACM SIG Proceedings format. Detailed instructions will be posted on the website at www.iwbdaconf.org

An award for Best Poster will be presented at the workshop.

IWBDA Info

Website:

www.iwbdaconf.org

Contact the committee:

iwbda-exec@lists.bio-design-automation.org

Journal Special Issue

Attendees of IWBDA 2014 will be invited to submit original work to the "IWBDA 2014" special issue, edited by Nathan Hillson (JBEI). Details will be announced on the website.

Key Dates

Late-breaking submission deadline:

May 5th, 2014

Abstract acceptance notification:

April 21, 2014 / Rolling for Late-breaking submissions

Workshop:

June 11-12, 2014