IWBDA:2011 - International Workshop on Bio-Design Automation

San Diego Convention Center, San Diego, CA
June 6 - 7, 2011
http://www.biodesignautomation.org

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The **International Workshop on Bio-Design Automation** (**IWBDA**) brings together researchers from the synthetic biology, systems biology, and design automation communities. The focus is on concepts, methodologies, and software tools to enable the computational analysis of biological systems and the synthesis of biological functions.

Still in its early stages, the field of synthetic biology has been driven by experimental expertise; 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. The field has now reached a stage where it calls for computer-aided design tools. The electronic design automation (EDA) community has unique expertise to contribute to this endeavor. This workshop offers a forum for cross-disciplinary discussion, with the aim of seeding collaboration between the research communities.

Tracks of interest include:

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

Invited Speakers
Adam Arkin, *UC Berkeley*
Christopher Voigt, *UCSF*
Erik Winfree, *Caltech*

Program Committee
J. Christopher Anderson, *UC Berkeley*
Adam Arkin, *UC Berkeley*
Jacob Beal, *BBN Technologies*
Jonathan Babb, *MIT*
Leonidas Bleris, *UT Dallas*
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Heinz Koeppl, *ETH Zurich*
Tanja Kortemme, *UCSF*
Smita Krishnaswamy, *Columbia*
Vishwesh Kulkarni, *Strand*
Natasa Miskov-Zivanov, *University of Pittsburgh*
Kartik Mohanram, *Rice*
Chris Myers, *University of Utah*
Jean Peccoud, *Virginia Tech*
Andrew Phillips, *Microsoft Research*
Mark Riedel, *University of Minnesota*
Herbert Sauro *University of Washington*
Xiling Shen, *Cornell*
David Thorsley, *University of Washington*
Christopher Voigt, *UCSF*
Ron Weiss, *MIT*
Erik Winfree, *Caltech*
Chris Winstead, *Utah State University*

The workshop will be held on **June 6 - 7, 2011** at the San Diego Convention Center, co-located with the Design Automation Conference, the premier conference in the field of electronic design automation with over 10,000 attendees. Registration information will be posted on the workshop webpage: http://www.biodesignautomation.org

For questions, please email info@biodesignautomation.org

Abstract Submission:

Abstracts should be two pages long, following the ACM SIG Proceedings templates at http://www.acm.org/sigs/publications/proceedings-templates. Indicate whether you would like your abstract considered for a poster presentation, an oral presentation, or both. Include the full names, affiliations and contact information of all authors.

Abstracts will be reviewed by the Program Committee. Those that are selected for oral and poster presentations will distributed to workshop participants and posted on the workshop website.

Abstracts should be submitted by **April 5th** at:
http://www.easychair.org/conferences/profile.cgi?iwbda2011

IWBDA 2011 Collection in PLoS ONE

IWBDA 2011 will have an associated journal special collection in the interdisciplinary open access journal PLoS ONE (www.plosone.org). Abstract authors will be specifically invited and encouraged to submit to this collection, although submission is open to any paper describing work on IWBDA tracks of interest. Submitted manuscripts will be reviewed according to PLoS ONE standard editorial policies http://www.plosone.org/static/authors.action

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Key Dates

Call for participation published: **January 24th, 2011**
Abstract submission deadline: **April 5th, 2011**
Abstract acceptance notification: **May 1st, 2011**
Workshop: **June 6th & 7th, 2011**