

Workshop on Bio-Nano-Info Integration for Personalized Medicine

Organizers:

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Every disease has genetic and molecular basis. For example, in 2005, cancer became the number one killer in the USA for people under the age of 85. It is estimated that 1.3 million people will be diagnosed with cancer and more than 560,000 people will die each year. The underlying reasons for these statistics include the biological complexity of cancer as a disease which we are just now beginning to understand. The Human Genome Project and other advanced technologies such as bionanotechnologies bring new hope to patient care because they can potentially address the disease on the molecular level. These new technologies, when linked to an individual patient's molecular profile, can provide personalized and predictive early detection, diagnosis, prognosis tracking, and novel targeted therapies.

In concert with development of these advanced technologies we must develop ways to validate the novel biotechnologies; methods to analyze the high volume of data coming from genomics, molecular imaging, and bionanotechnologies; and methods to interpret these data and make relevant predictions for patient care.

This workshop will focus on how linking advances in molecular biology, with advances in nanotechnology and information technology, can speed up the discovery and development process and clinical translation leading to advances in patient care. Specifically, the session will cover topics in ontology, data mining, data management, and image analysis that enable biomarker-based diagnosis, molecular imaging probe design, and therapeutic development.

This workshop is scheduled for **Oct. 14th, 2007 (Sunday) from 9:00am EST -- 6:00pm EST** and includes both oral session and poster session.

Submission Guidelines:

All accepted workshop papers will be published by IEEE, indexed in EI, INSPEC, DBLP and Library

of Congress, and will be all further invited for journal issues dedicated to IEEE 7th BIBE. Workshop Papers must be written in English in the IEEE two-column format and should be limited to 8 pages (an extra charge will apply for papers exceed 8-page limit). Detailed description of the conference paper format (8.5" x 11", Two-Column Format can be found at IEEE Computer Society Conference Publishing Services (CPS)). The paper to be uploaded must be in Adobe's PDF format. The deadline for submitting an abstract along with the original paper in PDF via an online paper submission system is July 10, 2007. Each paper will be reviewed by at least 3 reviewers. There will be one "Best Workshop Paper Award" competition.

To submit a paper to IEEE BIBE2007, an author needs an EasyChair account. If you already have an EasyChair account, please directly login <http://www.easychair.org/BIBE07/> for paper submission. If you don't have it, please follow the following procedure:

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4. Select "**Workshop on Bio-Nano-Info Integration for Personalized Medicine**".
5. Submit your workshop paper.

You will receive an email confirmation for your workshop paper submission.