

Workshop on Computation: Theory and Practice (WCTP-2011)

September 12-13, 2011
UP-NISMED, Quezon City, Philippines

Workshop Overview

"The best theory is inspired by practice. The best practice is inspired by theory." - Donald Knuth

Computation should be a blend of theory and practice. Researchers in the field should create algorithms to address real problems putting equal weight to analysis and implementation. Experimentation and simulation can be viewed as yielding to refined theories or improved applications. WCTP-2011 is the first workshop organized by the Tokyo Institute of Technology, Osaka University, University of the Philippines-Diliman and De La Salle University-Manila that is devoted to theoretical and practical approaches to computation. It aims to present the latest developments by theoreticians and practitioners in academe and industry working to address computational problems that can directly impact the way we live in society.

For this year, the workshop will be held at the auditorium of the University of the Philippines National Institute for Science and Mathematics Education and Development (UP-NISMED).

The WCTP-2011 program will consist of *Invited Talks* by prominent researchers, *Contributed Talks* selected by the Program Committee from submitted papers and a *Poster Session*. All sessions will be devoted to original research. Major topics of the workshop include, but are not limited to, the following:

Session 1: Theoretical Approaches to Computation

- Logical approach to software engineering for model checking and theorem proving
- Process calculi and their applications to security and software verification
- Formal frameworks of bioinformatics such as p system, petri-net and ambient calculus

Session 2: Practical Approaches to Computation

- User modeling (affect, intention, motion, posture, gesture, behavior, and activity)
- Social signal processing
- Ubiquitous computing
- Ambient Intelligence
- Human-computer interactions
- Intelligent user interfaces

Submissions related to the topics of the workshop are very much welcome. Submissions that relate results from other areas to the workshop topics are also encouraged. Submitted papers should preferably be typeset in LaTeX2e using the Springer document class `llncs` for the LNCS format (see <http://www.springer.de/comp/llncs/authors.html>). There is no limitation on paper length although we recommend the usual

page limits of around 12 pages.

Any submission should include the session name, the title of the paper, names and affiliations of authors, an abstract of 70-150 words, and the contact author's name, phone number, fax number, and email address. Submissions must be in English. The paper must be unpublished and not submitted for publication elsewhere, including journals and proceedings of other symposia or workshops. One author of each accepted paper should be able to present it at the workshop.

The PDF file should be uploaded via the WCTP-2011 submission tool. All papers will be peer-reviewed according to their novelty, soundness, significance, and relevance to the overall balance of topics represented at WCTP-2011.

Important Dates

July 24, 2011	Paper submission deadline
August 20, 2011	Acceptance notification
August 31, 2011	Camera-ready paper deadline
September 12-13, 2011	Technical presentations

Organization

Workshop Co-chairs

Nobuaki Otsuki
Director, Philippine Office, Tokyo Institute of Technology
Katsuaki Suganuma
Director, Int'l Collaboration Center, ISIR, Osaka University

Program Committee Co-chairs

Jaime Caro, University of the Philippines-Diliman
Shinya Nishizaki, Tokyo Institute of Technology
Masayuki Numao, Osaka University
Merlin Suarez, De La Salle University-Manila

Organizing Chair

Roberto Legaspi, Osaka University

Program Committee

Henry Adorna, University of the Philippines
Arnulfo Azcarraga, De La Salle University
Rommel Feria, University of the Philippines
Cedric Festin, University of the Philippines
Ryu Hasegawa, The University of Tokyo
Ryutaro Ichise, National Institute of Informatics
Satoshi Kurihara, Osaka University
Roberto Legaspi, Osaka University
Nelson Marcos, De La Salle University
Tsuyoshi Murata, Tokyo Institute of Technology
Ma. Mercedes Rodrigo, Ateneo de Manila University
Rosemary Seva, De La Salle University

Allan Sioson, Ateneo de Naga University
Raymund Sison, De La Salle University
Hiroyuki Tominaga, Kagawa University
Takuo Watanabe, Tokyo Institute of Technology
Mitsuharu Yamamoto, Chiba University
Naoki Yonezaki, Tokyo Institute of Technology

Secretariat

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Contact Information

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Kindly specify in the subject field the pertinent session number. For more information, kindly proceed to the WCTP-2011 official homepage.