

## 2nd CALL FOR PAPERS – Language Theory in Biocomputing

A satellite workshop of the *Sixth International Conference on*

### UNCONVENTIONAL COMPUTATION, UC'07

August 13–17, 2007, Kingston, Canada

#### WORKSHOP CO-CHAIRS

Michael Domaratzki (Winnipeg, Canada)  
Kai Salomaa (Kingston, Canada)

#### PROGRAM COMMITTEE

Mark Daley (London, Canada)  
Michael Domaratzki (Winnipeg, Canada)  
Lucian Ilie (London, Canada)  
Stavros Konstantinidis (Halifax, Canada)  
Ian McQuillan (Saskatoon, Canada)  
Andrei Păun (Ruston, United States)  
Kai Salomaa (Kingston, Canada)

#### WORKSHOP TOPICS

*The topics include, but are not limited to:*

- splicing systems and languages
- error detection and correction in DNA computing, DNA codes
- membrane computing
- self-assembly, tiling systems
- models for secondary structures
- formal languages and automata theory in other areas of bioinformatics
- combinatorial aspects of computational biology

#### CONTACT ADDRESS

Kai Salomaa  
School of Computing, Queen's University  
Kingston, Ontario K7L 3N6, Canada  
[ksalomaa@cs.queensu.ca](mailto:ksalomaa@cs.queensu.ca)

#### IMPORTANT DATES

- Submission: April 20, 2007 (**NEW**)
- Notification: May 15, 2007
- Final version due: May 31, 2007
- Workshop: August 14, 2007 (tentative)

UC'07 will take place August 13–17, 2007, in Kingston, Canada, see <http://www.cs.queensu.ca/uc07>. The satellite workshop *Language Theory in Biocomputing* will, tentatively, be held on August 14.

#### TOPICS

The theme of the workshop is applications of formal language theory in biocomputing. The workshop solicits new work on the relationships between formal language theory and biocomputing and the uses of formal language theory and automata in modelling biological processes.

#### SUBMISSION INSTRUCTIONS

Authors are invited to submit an electronic version (Postscript or PDF) by April 20, 2007 (NEW DATE) to [mdomarat@cs.umanitoba.ca](mailto:mdomarat@cs.umanitoba.ca) and [ksalomaa@cs.queensu.ca](mailto:ksalomaa@cs.queensu.ca). Please send the submission to both above email addresses. A paper should begin with the title, each author's name, affiliation, and e-mail address, and a one-paragraph summary of the results and ideas. The paper should provide sufficient detail to allow the Program Committee to evaluate its validity, quality, and relevance to the workshop. The paper should be at most twelve (12) pages long using 11-point font with ample margins. If appropriate, proof details omitted in the paper may be added in an appendix.

The PC members are allowed to submit papers. Papers submitted by the PC members will be handled separately by the workshop co-chairs.

The pre-proceedings will be available during the workshop. Extended versions of selected papers from the workshop will be solicited for publication in a special issue of the International Journal of Foundations of Computer Science (<http://www.cs.ucsb.edu/~ijfcs>).

At least one author of each paper accepted to the workshop is expected to register to UC'07. There is no separate registration fee for the workshop. General information for UC'07 is available at <http://www.cs.queensu.ca/uc07>.