Call For Papers

7th International Conference on Machines, Computations and Universality (MCU'15)

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9-11 September 2015, Salamis Bay Conti Resort Hotel, Gazimagusa, North Cyprus

SCOPE

MCU explores computation in the setting of various discrete models (Turing machines, register machines, cellular automata, tile assembly systems, rewriting systems, molecular computing models, neural models etc.) and analog and hybrid models (BSS machines, infinite time cellular automata, real machines, quantum computing etc.). There is particular, but not exclusive, emphasis given towards the following:

- ❖ The search for frontiers between decidability and undecidability in the various models
- ❖ The search for the simplest universal models
- ❖ The computational complexity of predicting the evolution of computations in the various models
- ❖ The connection between parallelism and decidability, complexity and universality
- ❖ Universality and undecidability in continuous models of computation

SUBMISSIONS

Authors of accepted papers are expected to present their work at the conference. Submitted papers must describe work not previously published, and they must neither be accepted nor under review at a journal or at another conference with refereed proceedings. Authors are required to submit their manuscripts electronically in PDF using the LNCS style. Authors using LaTeX can download the needed macros at Springer-Verlag site. Papers should not exceed 15 pages; full proofs may appear in a clearly marked technical appendix which will be read at the reviewers' discretion. The submission process is managed by EasyChair https://easychair.org/conferences/?conf=mcu2015 . The proceedings will be available at the conference venue. We hope to have the conference proceedings be published in LNCS, Springer Verlag (under negotiation). There will be a best paper and a best student paper award.

CONFIRMED INVITED SPEAKERS

Matthew Cook, University of Zürich and ETH Zürich, Switzerland

Linqiang Pan, Huazhong University of Science and Technology, China

Anne Siegel, INRIA – IRISA/Dyliss, France

Mike Stannett, University of Sheffield, UK

PROGRAM COMMITTEE

Andrew Adamatzky, University of the West of England, UK

Rza Bashirov, Eastern Mediterranean University, Famagusta

Laurent Bienvenu, CNRS, Université Paris Diderot

Erzsébet Csuhaj-Varjú, Eötvös Loránd University, Hungary

Jérôme Durand-Lose, University of Orléans, France (co-chair)

Henning Fernau, University of Trier, Germany

Rudolf Freund, University of Vienna, Austria

Gabriel Istrate, West University of Timisoara, Romania

Jarkko Kari, University of Turku, Finland

Martin Kutrib, Universität Gießen, Germany

Peter Leupold, University of Leipzig, Germany
Kenichi Morita, Hiroshima University, Japan
Turlough Neary, University of Zürich and ETH Zürich
Matthew Patitz, University of Arkansas, USA
Igor Potapov, University of Liverpool, UK
György Vaszil, University of Debrecen, Hungary

Maurice Margenstern, University of Lorraine, France
Benedek Nagy, Eastern Mediterranean University, Famagusta and
                University of Debrecen, Hungary (co-chair)
Gheorghe Paun, Romanian Academy, Bucharest, Romania
K. G. Subramanian, University of Science, Malaysia
Sergey Verlan, University of Paris Est, France

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IMPORTANT DATES
Deadline for paper submission:
Notification of paper acceptance:
Final version for the