



MCU 2007 – Programme

Orléans, France

10–13 September 2007

| Monday, September the 10th | |
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| 9h00 | <i>Registration</i> |
| 10h30 | <i>Opening</i> |
| 11h00 | <i>Invited speaker 1 : <u>Maurice Margenstern</u> Cellular automata in hyperbolic spaces, universality and beyond the Turing barrier</i> |
| 12h30 | <i>Lunch</i> |
| 14h00 | <i>Invited speaker 2 : <u>Olivier Bournez</u> On the computational capabilities of several models</i> |
| 15h00 | <i>Accepted papers 1 Artiom Alhazov, <u>Rudolf Freund</u>, Marion Oswald, Sergey Verlan Partial Halting in P Systems Using Membrane Rules with Permitting Contexts <u>Dorothea Baumeister</u>, Jörg Rothe Satisfiability Parsimoniously Reduces to the Tantrix(TM) Rotation Puzzle Problem</i> |
| 16h45 | <i>Visit of the old city</i> |

| Tuesday, September the 11th | |
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| 9h00 | Invited speaker 3 : <u>Kenichi Morita</u> , Yoshikazu Yamaguchi <i>A Universal Reversible Turing Machine</i> |
| 10h00 | Coffee break |
| 10h30 | Invited speaker 4 : <u>Mark Burgin</u> <i>Universality, Reducibility, and Completeness</i> |
| 11h30 | Accepted papers 2 <u>Tommaso Bolognesi</u> <i>Planar trivalent network computation</i> <u>Jürgen Dassow</u> , <u>Bianca Truthe</u> <i>On the Power of Networks of Evolutionary Processors</i> |
| 12h30 | Lunch |
| 14h15 | Visit of the Château de Chambord |

| Wednesday, September the 12th | |
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| 9h00 | Invited speaker 5 : <u>Manuel Campagnolo</u> , Kerry Ojakian <i>Using Approximation to Relate Computational Classes over the Reals</i> |
| 10h00 | Coffee break |
| 10h30 | Invited speaker 6 : <u>Pascal Koiran</u> <i>Decision versus Evaluation in Algebraic Complexity</i> |
| 11h30 | Accepted papers 3 <u>Olivier Teytaud</u> <i>Slightly beyond Turing's computability for studying genetic programming</i> <u>Hermann Gruber</u> , Markus Holzer, Martin Kutrib <i>More on the Size of Higman-Haines Sets: Effective Constructions</i> |
| 12h30 | Lunch |
| 14h00 | Invited speaker 7 : <u>Joel David Hamkins</u> <i>A survey of infinite time Turing machines</i> |
| 15h00 | Accepted papers 4 <u>Hiroshi Umeo</u> <i>A Smallest Five-State Solution to the Firing Squad Synchronization Problem</i> <u>Victor Mitrana</u> , Juan Castellanos, Florin Manea, Luis Fernando Mingo López <i>Accepting Networks of Splicing Processors With Filtered Connections</i> |
| 16h00 | Coffee break |
| 16h30 | Accepted papers 5 <u>Turlough Neary</u> , Damien Woods <i>Four small universal Turing machines complement</i> <u>Hidenosuke Nishio</u> <i>Changing the Neighborhood of Cellular Automata</i> |
| 17h30 | Open session <u>Pablo Arrighi</u> , Renan Fargetton <i>Intrinsically universal one-dimensional quantum cellular automata</i> |
| 20h00 | Banquet |

| Thursday, September the 13th | |
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| 9h00 | Invited speaker 8 : <u>Jarkko Kari</u> <i>The Tiling Problem Revisited (extended abstract)</i> |
| 10h00 | Coffee break |
| 10h30 | Accepted papers 6 <u>Liesbeth De Mol</u> <i>Study of Limits of Solvability in Tag Systems</i> <u>Damien Woods</u> , Turlough Neary <i>Small semi-weakly universal Turing machines complement</i> |
| 11h30 | Accepted papers 7 John Fisher, <u>Marc Bezem</u> <i>Query Completeness of Skolem Machine Computations</i> <u>Jean-Baptiste Yunès</u> <i>Simple New Algorithms which solve the Firing Squad Synchronization Problem: a 7-states $4n$-steps solution</i> |
| 12h30 | Lunch |
| 14h00 | Invited speaker 9 : <u>Klaus Sutner</u> <i>Information Hiding and Incompleteness</i> |
| 15h00 | Accepted papers 8 Frantisek Mraz, <u>Martin Platek</u> , Friedrich Otto <i>Hierarchical relaxations of the correctness preserving property for restarting automata</i> Artiom Matveevici, Yurii Rogozhin, Sergey Verlan <i>Insertion-Deletion Systems with One-Sided Contexts</i> |
| 16h00 | Coffee break |
| 16h30 | Accepted papers 9 <u>Artiom Alhazov</u> , Mario de Jesús Pérez-Jiménez <i>Uniform Solution of QSAT using Polarizationless Active Membranes</i> <u>Alexander Okhotin</u> <i>A simple P-complete problem and its representations by language equations</i> |
| 17h30 | Closing |

Sponsors



Laboratoire d'Informatique Fondamentale d'Orléans



Université d'Orléans



LITA, Université de Metz



Conseil Régional Région Centre



Conseil Général du Loiret



Mairie d'Orléans

GDR 673 du CNRS Informatique Mathématique