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## Machines, Computations and Universality, Part II

Preface		

MCU'2007 is the fifth edition of the international conference Machines, Computations and Universality. The conference was born in Paris, in 1995. Then it grew up in Metz, in 1998 and then went out of France to Chisinău, Moldova, in 2001 and to Saint Petersburg, Russia, in 2004. Starting from MCU'2001, the conference has its proceedings in Lecture Notes in Computer Science, see volumes 2055, 3354 and 4664 respectively. Each edition of the conference was followed by a special issue. Three of them were in Theoretical Computer Science, volumes 162-2, 231-2 and 296-2 respectively and one of them in Fundamenta informaticae, volume 74-4. For its fifth edition, which we organized in Orléans, MCU came back to France in order to prepare the big jump over the Atlantic Ocean in 2010. The sixth edition of MCU will be held there, at Pittsburg, USA, to be organized with Klaus Sutner. A special issue of Fundamenta informaticae was also planned after MCU'2007. Now, the conference and the call for papers had a big success. Due to the high number of high quality papers submitted to this special issue both by authors who contributed to MCU'2007 and by the new authors who answered the call for paper, the issue had been to be split into Part I and Part II.

The present issue contains the papers of Part II, those which were submitted by new authors who answered the call for paper, launched after MCU'2007. It is interesting to note that there are as many papers in Part II as in Part I, but Part II has more pages. As indicated in the previous issue containing Part I, Part II contains papers both from traditional fields and from non-classical ones. In particular, quantum computations and computations based on non-standard analysis are welcomed newcomers. This second issue enlarges the broadth of MCU and open new avenues for its next editions.

All this is possible thanks to the help of Andrzej Skowron, the Editor-in-Chief of *Fundamenta Informaticæ* to whom we are deeply in debt. We take this occasion to once more thank the referees of the special issue. They achieved a very difficult selection in a very efficient way, which is a decisive contribution to the success of this issue.

We would also like to thank again our sponsors whose help was determinant in the success of MCU'2007: Conseil Régional Région Centre, Conseil Général du Loiret, Mairie d'Orléans, LIFO, Université d'Orléans, LITA, Université Paul Verlaine — Metz, GDR 673 du CNRS Informatique Mathématique.

We hope that the reader will be convinced that this second issue goes on the tradition of the previous **MCU** conferences and extends it a very promising way. We hope that he/she will enjoy the papers of Part II.

Île du Saulcy, Metz and Orléans, February, 4, 2009,

## Guest Editors Maurice Margenstern and Jérôme Durand-Lose

L.I.T.A., EA 3097, L.I.F.O., EA 4022, Université Paul Verlaine – Metz, Université d'Orléans,

Île du Saulcy, Bâtiment IIIA,

57045 Metz Cédex, France Rue Léonard de Vinci,

B.P. 6759,

45067 Orléans Cédex 2, France

e-mail: margens@univ-metz.fr, jdl@univ-orleans.fr