

Preface

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The Sixth International Conference on Computability and Complexity in Analysis, CCA 2009, took place on August 18 to 22, 2009, in Ljubljana, Slovenia. It was the 15th event in a series of workshops, seminars and conferences on CCA. For more information about CCA see <http://cca-net.de>.

The conference is concerned with Computable Analysis, the theory of computability and complexity over real-valued data. Computability theory studies the limitations and abilities of computers in principle. Computational complexity theory provides a framework for understanding the cost of solving computational problems, as measured by the requirement for resources such as time and space. In particular, Computable Analysis supplies an algorithmic foundation for numerical computation.

Scientists working in the area of computability and complexity over the real numbers and over more general continuous data structures come from different fields, such as theoretical computer science, domain theory, logic, constructive mathematics, computer arithmetic, numerical mathematics and all branches of analysis.

The conference program consisted of 4 invited talks, 2 tutorials of three talks each, and 24 contributed talks. These proceedings contain the abstracts or extended abstracts of the invited talks, tutorials, and a selection of 22 contributed articles. We thank all authors for their contributions, the program committee members and the additional referees for their careful refereeing work, and the organizing committee members for their work as well.