

PREFACE

This special issue of the journal Logical Methods in Computer Science (LMCS) contains articles in the area of Computability and Complexity in Analysis. Many, but not all of them, were presented at the Tenth International Conference on Computability and Complexity in Analysis (CCA 2013) that took place in Nancy, France, July 8–10, 2013. The conference was the 19th event in a series of workshops, seminars and conferences in this area (see cca-net.de for more information about CCA network).

The conference and this special issue are 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.

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All articles have already been published in the regular issues of Logical Methods in Computer Science.