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Miika Ahdesmäki, Korbinian Strimmer, Nicole Radde, Jörg Rahnenführer, Konstantin Klemm, Harri Lähdesmäki & Olli Yli-Harja

Fifth International Workshop on Computational Systems Biology, WCSB 2008, June 11-13, 2008 Leipzig, Germany

Tampere 2008

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PREFACE

The Workshop on Computational Systems Biology has been organized annually by the Computational Systems Biology research group in the Department of Signal Processing at Tampere University of Technology (TUT). The history of the workshop traces back to 2003, when it was organized for the first time as an internal meeting with some invited international collaborators. Since then the meeting has grown each year witnessing a rapid development in experimental biosciences and growth in the research of computational methods in systems biology.

This year the program committee set the target to making the event more international, as well as emphasizing the quality and significance of the research papers published in this proceedings book. Therefore in 2008 the workshop is organized in Leipzig, Institute for Medical Informatics, Statistics and Epidemiology (IMISE), Germany, together with collaborators from University of Leipzig and Dortmund University of Technology. The joint organization has proved to be smooth and successful - we are having a record number of international participants. We have brought together the various communities involved in the different aspects of computational systems biology research, e.g. experimental biology, machine learning, signal processing, statistics and theoretical physics. The workshop program together with the range of published papers demonstrate an increasing sphere of influence of WCSB.

This volume is the collection of the research papers and short abstracts submitted to WCSB2008. We would like to thank the authors and the reviewers for their contribution to this workshop. We are also grateful for the contribution of organizers in Finland and Germany for their efforts. We would also like to thank Finnish Academy of Sciences, Tampere Graduate School in Information Science and Engineering (TISE), Tampere International Center for Signal Processing (TICSP), Research Training Group "Statistical Modelling", Department of Statistics, Dortmund University of Technology, and Max Planck Institute for Evolutionary Anthropology for their support.

On behalf of the WCSB 2008 Scientific committee,

Olli Yli-Harja

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