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Dieter Kranzlmüller A Min Toja (Eds.)

Information and Communication on Technology for the Fight against Global Warming

First International Conference, ICT-GLOW 2011
Toulouse, France, August 30-31, 2011
Proceedings

Volume Editors

Dieter Kranzlmüller
Ludwig-Maximilians-Universität München
Institut für Informatik
Oettingenstrasse 67, 80538 München, Germany
E-mail: kranzlmue@ifi.lmu.de

A Min Toja
Vienna University of Technology
Institute of Software Technology
Favoritenstraße 9-11/188, 1040 Wien, Austria
E-mail: amin@ifs.tuwien.ac.at

ISSN 0302-9743 e-ISSN 1611-3349
ISBN 978-3-642-23446-0 e-ISBN 978-3-642-23447-7
DOI 10.1007/978-3-642-23447-7
Springer Heidelberg Dordrecht London New York

Library of Congress Control Number: 2011934464

CR Subject Classification (1998): D, J.2, J.1, K.6

LNCS Sublibrary: SL 1 – Theoretical Computer Science and General Issues

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Typesetting: Camera-ready by author, data conversion by Scientific Publishing Services, Chennai, India

Printed on acid-free paper

Springer is part of Springer Science+Business Media (www.springer.com)

Preface

Reduction of CO₂-emissions is a topic of outmost importance for society and our planet. Today, the information and communication technology (ICT) sector is already a relevant contributor to CO₂ emissions and global warming due to its tremendous presence in our everyday life. At the same time, and more importantly it is a key technology for the fight against global warming in all other sectors.

This twofold situation was addressed during ICT-GLOW 2011: On the one hand, issues on the potential of ICT as enabler for the reduction of CO₂-emissions pertinent to industry, regions, organizations and society were considered. On the other hand, issues on the urgent need of hardware and software systems which are designed and operated in an energy-aware way and which steadily monitor and optimize their energy consumption was another focus of the conference.

The First International Conference on ICT as Key Technology for the Fight Against Global Warming (ICT-GLOW 2011) aimed at providing an interdisciplinary scientific forum for in-depth-discussions on the reduction of the carbon footprint in the different sectors including ICT systems themselves. Emphasis within the ICT sector is laid on holistic and far-reaching approaches for green and eco-friendly ICT systems. The conference brought together researchers and practitioners from multiple disciplines ranging from green maturity models in organizations to system level design and optimization.

The papers presented at this conference were selected after extensive reviews by the Program Committee and associated reviewers. We would like to thank all PC members and the reviewers for their valuable advice, and the authors for their contributions to ICT-GLOW 2011. Special thanks go to Gabriela Wagner for managing the submission and paper production process, and to Vitalian Danciu for handling the reviewing process and drafting the conference program.

Dieter Kranzlmüller
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Table of Contents

Parallel Computing

Towards Energy Efficient Parallel Computing on Consumer Electronic Devices	1
<i>Karl Frlinger, Christof Klausecker, and Dieter Kranzlmller</i>	
Characterizing Applications from Power Consumption: A Case Study for HPC Benchmarks	10
<i>Georges Da Costa and Jean-Marc Pierson</i>	
Principles of Energy Efficiency in High Performance Computing.....	18
<i>Axel Auweter, Arndt Bode, Matthias Brehm, Herbert Huber, and Dieter Kranzlmller</i>	

ICT for Transportation

Geocast Routing in Vehicular Networks for Reduction of CO_2 Emissions	26
<i>Maazen Alsabaan, Kshirasagar Naik, Tamer Abdelkader, Tarek Khalifa, and Amiya Nayak</i>	
Limiting Pollution in Ground Control Optimization	41
<i>Ludovica Adacher and Marta Flamini</i>	
A Simulation Environment for Smart Charging of Electric Vehicles Using a Multi-objective Evolutionary Algorithm	56
<i>Maryam Ramezani, Mario Graf, and Harald Vogt</i>	

Cloud Computing

Furthering the Growth of Cloud Computing by Providing Privacy as a Service	64
<i>David S. Allison and Miriam A.M. Capretz</i>	
The Concept of a Mobile Cloud Computing to Reduce Energy Cost of Smartphones and ICT Systems	79
<i>Majid Altamimi and Kshirasagar Naik</i>	

Pervasive Computing

A Model for Sequence Based Power Management in Cyber Physical Systems	87
<i>Andreas Barthels, Florian Ruf, Gregor Walla, Joachim Fröschl, Hans-Ulrich Michel, and Uwe Baumgarten</i>	
A System for Energy Savings in an Ambient Intelligence Environment	102
<i>Thanos G. Stavropoulos, Dimitris Vrakas, Alexandros Arvanitidis, and Ioannis Vlahavas</i>	
Profiling Power Consumption on Desktop Computer Systems	110
<i>Giuseppe Procaccianti, Antonio Vetro', Luca Ardito, and Maurizio Morisio</i>	

Measurement and Control

GAINS – An Interactive Tool for Assessing International GHG Mitigation Regimes	124
<i>Thanh Binh Nguyen, Fabian Wagner, and Wolfgang Schoepp</i>	
Role of Context-Awareness for Demand Response Mechanisms	136
<i>Pari Delir Haghighi and Shonali Krishnaswamy</i>	
An Architecture and Methodology for a Four-Phased Approach to Green Business Process Reengineering	150
<i>Alexander Nowak, Frank Leymann, David Schumm, and Branimir Wetzstein</i>	

Storage

ADSC: Application-Driven Storage Control for Energy Efficiency	165
<i>Cinzia Cappiello, Alicia Hinostroza, Barbara Pernici, Mariagiovanna Sami, Ealan Henis, Ronen Kat, Kalman Meth, and Marcello Mura</i>	
Utilization-Aware Redirection Policy in CDN: A Case for Energy Conservation	180
<i>Saif ul Islam, Konstantinos Stamos, Jean-Marc Pierson, and Athena Vakali</i>	

Author Index	189
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