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■ ■ ■ **enviroinfo**

Environmental Informatics

Techniques and Trends

Adjunct Proceedings of the
32nd EnviroInfo conference

Garching near Munich, September 5–7, 2018

**SHAKER
VERLAG**



Leibniz Supercomputing Centre
of the Bavarian Academy of Sciences and Humanities



GERMAN
INFORMATICS SOCIETY

Hans-Joachim Bungartz · Dieter Kranzlmüller
Volker Weinberg · Jens Weismüller · Volker Wohlgemuth
Editors

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Adjunct Proceedings of the 32nd edition of the EnviroInfo – the long standing and established international and interdisciplinary conference series on leading environmental information and communication technologies

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Preface

This book presents research results of the 32nd edition of the long-standing and established international and interdisciplinary conference series on environmental information and communication technologies (EnviroInfo 2018).

The conference was held on 5–7 September 2018 at the Leibniz Supercomputing Centre of the Bavarian Academy of Sciences and Humanities (LRZ) in Garching near Munich, Germany, organized by LRZ, under the patronage of the Technical Committee on Environmental Informatics of the Gesellschaft für Informatik e.V. (German Informatics Society – GI).

Combining and shaping national and international activities in the field of applied informatics and environmental informatics in making the world a better place for living, the EnviroInfo conference series aims at presenting and discussing the latest state-of-the-art development on information and communication technology (ICT) and environmental related fields.

The focus of this year's conference was on six key topics and their relevance to Environmental Informatics:

- Efficient Computing
- Virtual Discoveries
- Managing Disruption
- Big Data
- Open Science
- Distributed processing and sensing

These core topics are intended to provide continuity with previous EnviroInfo issues and topics that have long been close to the heart of the specialist community. On the other hand, we would also like to pick up the latest emerging trends.

This volume contains the short and work in progress papers of the conference that describe ongoing projects and initiatives which will help to solve these and many other environmental problems in the future.

The editors would like to thank all the contributors to the conference and these conference proceedings. Special thanks also go to the members of the programme and organizing committees. In particular, we would like to thank all those involved at the local organizer, LRZ. Last, but not least, a warm thank you to our sponsors that supported the conference.

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