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Software Process Dynamics and Agility

International Conference on Software Process, ICSP 2007
Minneapolis, MN, USA, May 19-20, 2007
Proceedings

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Library of Congress Control Number: 2007925873

CR Subject Classification (1998): D.2, K.6.3, K.6, K.4.3, J.1

LNCS Sublibrary: SL 2 – Programming and Software Engineering

ISSN 0302-9743

ISBN-10 3-540-72425-7 Springer Berlin Heidelberg New York

ISBN-13 978-3-540-72425-4 Springer Berlin Heidelberg New York

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Springer is a part of Springer Science+Business Media

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© Springer-Verlag Berlin Heidelberg 2007

Printed in Germany

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

Printed on acid-free paper SPIN: 12062041 06/3180 5 4 3 2 1 0

Preface

This volume contains papers presented at the International Conference on Software Process (ICSP 2007) held in Minneapolis, USA, May 19-20, 2007. ICSP 2007 comprised two successful series of process-related workshops, the International Workshop on Software Process Simulation and Modeling (ProSim) and the Software Process Workshop (SPW).

The theme of ICSP 2007 was “Coping with Software Process Dynamics and Agility.” Software developers work in a dynamic context of frequently changing technologies and limited resources. Globally distributed development teams are under ever-increasing pressure to deliver their products more quickly and with higher levels of quality. At the same time, global competition is forcing software development organizations to cut costs by rationalizing processes, outsourcing part or all of their activities, reusing existing software in new or modified applications and evolving existing systems to meet new needs, while still minimizing the risk of projects failing to deliver. To address these difficulties, new or modified processes are emerging, including agile methods and plan-based product line development. Open source, COTS and community-developed software are becoming more popular. Outsourcing coupled with 24/7 development demand well-defined processes to support the coordination of organizationally and geographically separated teams.

The increasing challenges faced by the software industry combine to increase demands on software processes.

ICSP 2007 was a continuation of two successful series of process-related workshops, ProSim (Software Process Simulation and Modeling Workshop) and SPW (Software Process Workshop). SPW and ProSim were conducted jointly for the first time in 2006 as a co-located event to ICSE 2006. ICSP 2007 continued a long tradition of software process research, positioning itself as the new leading-edge event for systems and software process research.

In response to the call for papers, 98 submissions were received from 14 different countries and regions: Australia, Brazil, Canada, China, France, Germany, Japan, Korea, The Netherlands, Pakistan, Spain, UK, USA, and Turkey. Every paper was rigorously reviewed and held to very high quality standards, and finally 28 papers were accepted as regular papers for presentation at the conference.

The papers were clustered around topics and presented in five regular sessions, each consisting of two threads. Topics included *Process Content*, *Process Tools and Metrics*, *Process Management*, *Process Representation*, *Analysis and Modeling*, *Experience Report*, and *Simulation Modeling*.

Highlights of the ICSP2007 program were two keynote speeches, delivered by Larry E. Druffel (President and CEO, SCRA, USA) and Merwan Mehta (Department of Technology Systems, East Carolina University, USA).

A conference such as this can only succeed as a team effort. All of this work would not have been possible without the dedication and professional work of many colleagues. We wish to express our gratitude to all contributors for submitting papers. Their work formed the basis for the success of the conference. We would also like to

thank the Program Committee members and reviewers because their work guaranteed the high quality of the workshop. Particular thanks also go to the keynote speakers for giving their excellent presentations at the conference. Finally, we would also like to thank the members of the Steering Committee, Barry Boehm, Mingshu Li, Leon Osterweil and Wilhelm Schäfer, for their advice, encouragement and support.

We wish to express our thanks to the organizers for their hard work. The conference was sponsored by the International Software Process Association (ISPA) and the Institute of Software, the Chinese Academy of Sciences (ISCAS) and the ISCAS Laboratory for Internet Software Technologies. We also wish to thank the 29th International Conference on Software Engineering (ICSE 2007) for sponsoring this meeting as an ICSE Co-located Event. Finally, we acknowledge the editorial support from Springer for the publication of this volume.

For further information, please visit our Web site at <http://www.icsp-conferences.org/icsp2007>.

March 2007

David M. Raffo
Qing Wang
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International Conference on Software Process 2007

Minneapolis, USA

May 19–20, 2007

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