Table of Contents

2008 IEEE International Conference on Global Software Engineering

ICGSE 2008

Message from General Chairs viii
Organizing Committee ix
Program Committee x
Steering Committee xi
Reviewers xii
Acknowledgements xiii

Keynotes

Software "manufacturing" - The Meeting Ground for Art and Science xiv

The Coming Age of Virtual Organizations: Applying Lessons from the Early History of Geographically-Dispersed Collaboration xv

Meeting Complexities Head-On: Leveraging Global Software Development for Competitiveness xvi

Good Practices

On the Suitability of Particular Software Development Roles to Global Software Development 3
Michael T. Lane and Pär J. Ågerfalk

Having a Foot on Each Shore - Bridging Global Software Development in the Case of SMEs 13
Ita Richardson, Gabriela Avram, Sadhana Deshpande, and Valentine Casey

Guidelines for Effective Bridging in Global Software Engineering 23
Allen E. Milewski, Marilyn Tremaine, Richard Egan, Suling Zhang, Felix Kobler, and Patrick O'Sullivan

Communication

A Comparative Empirical Study of Communication in Distributed and Collocated Development Teams 35
Ban Al-Ani and H. Keith Edwards

Global Software Development and Delay: Does Distance Still Matter? 45
Thanh Nguyen, Timo Wolf, and Daniela Damian

Experiences of Instant Messaging in Global Software Development Projects: A Multiple Case Study 55
Tuomas Niinim.ki and Casper Lassenius

Processes

Implementing Software Process Improvement Initiatives: An Analysis of Vietnamese Practitioners' Views 67
Muhammad Ali Babar and Mahmood Niazi

Experiences with Agile Practices in the Global Studio Project 77
Roger Urdangarin, Paulo Fernandes, Alberto Avritzer, and Daniel Paulish

Distributed Agile Development: Using Scrum in a Large Project 87
Maria Paasivaara, Sandra Durasiewicz, and Casper Lassenius

Models for GSP

Patterns of Evolution in the Practice of Distributed Software Development in Wholly Owned Subsidiaries: A Preliminary Capability Model 99
Rafael Prikladnicki, Daniela Damian, and Jorge Luis Nicolas Audy

Towards a Multi-criteria Development Distribution Model: An Analysis of Existing Task Distribution Approaches 109
Ansgar Lamersdorf, Jürgen Münch, and Dieter Rombach

Developing an Inter-site Coordination Index for Global Software Development 119
Sooraj P and Pratap K.J. Mohapatra

Managing Complexity in GSD

Managing Risks in Global Software Engineering: Principles and Practices 131
Christof Ebert, Bvs Krishna Murthy, and Namo Narayan Jha

Integration of Design in Distributed Development Using D-Scenario Graph 141
Ananya Kanjilal, Goutam Kanjilal, and Swapan Bhattacharya

Managing the Iterative Requirements Process in a Multi-national Project Using an Issue Tracker 151
Christian R. Prause, Marius Scholten, Andreas Zimmermann, René Reiners, and Markus Eisenhauer

Reporting Experiences in GSD

The Impact of Fear on the Operation of Virtual Teams 163
Valentine Casey and Ita Richardson

Reporting Empirical Research in Global Software Engineering: A Classification Scheme 173
Darja Šmite, Claes Wohlin, Robert Feldt, and Tony Gorschek

Global Software Servicing: Observational Experiences at Microsoft 182
Shilpa Bugde, Nachiappan Nagappan, Sriram Rajamani, and G. Ramalingam

Industry Track I

Global Software Development: Who Does It? 195
Andrew Begel and Nachiappan Nagappan

ESB Enablement of an International Corporate Acquisition, an Experience Report 200
Philip Hartman

Beyond Cost Reduction: Using Collaboration to Increase Innovation in Global Software Development Projects 205
Theodore Forbath, Peter Brooks, and Anand Dass

Ailments of Distributed Document Reviews and Remedies of DOCTOR (DOCument Tree ORganizer Tool) with Distributed Reviews Support 210
Krishnamurthy T.V and Sapna Subramani

Industry Track II

Adopting Agile in Distributed Development 217
Kalpana Sureshchandra and Jagadish Shrinivasavadhani

Usage of SCRUM Practices within a Global Company 222
Maurício Cristal, Daniel Wildt, and Rafael Prikladnicki

Evaluating a Networked Virtual Environment for Globally Distributed Avionics Software Development 227
Redge Bartholomew

Continuous Improvement through Iterative Development in a Multi-Geography 232
Jim Alain Laredo and Ravi Ranjan

Education Track

Improving Contextual Skills in Global Software Engineering: A Corporate Training Experience 239
Rafael Prikladnicki and Leonardo Pilatti

Integration Starts on Day One in Global Software Development Projects 244
Olly Gotel, Vidya Kulkarni, Christelle Scharff, and Longchrea Neak

Developing a Course on Designing Software in Globally Distributed Teams 249
Patricia Lago, Henry Muccini, and Muhammad Ali Babar

Doctorial Symposium

Coordinating Mechanisms for Agile Global Software Development 257
Emam Hossain

Challenges of Globally Distributed Software Development – Analysis of Problems Related to Social Processes and Group Relations 264
Arttu Piri

A Metrics Based Approach to Evaluate Design of Software Components 269
Kuljit Kaur Chahal and Hardeep Singh

A Readiness Model for Software Development Outsourcing Vendors 273
Siffatullah Khan, Mahmood Niazi, and Rashid Ahmad

Author Index 278