

Proceedings

**2008 3rd IEEE International Conference
Global Software Engineering
ICGSE 2008**

17-20 August 2008
Bangalore, India



Los Alamitos, California
Washington • Tokyo



TABLE OF CONTENTS

GOOD PRACTICES

On the Suitability of Particular Software Development Roles to Global Software Development	1
<i>Michael T. Lane, Par J. Agerfalk</i>	
Having a Foot on Each Shore - Bridging Global Software Development in the Case of SMEs	11
<i>Ita Richardson, Gabriela Avram, Sadhana Deshpande, Valentine Casey</i>	
Guidelines for Effective Bridging in Global Software Engineering.....	21
<i>Allen E. Milewski, Marilyn Tremaine, Richard Egan, Suling Zhang, Felix Kobler, Patrick O'Sullivan</i>	

COMMUNICATION

A Comparative Empirical Study of Communication in Distributed and Collocated Development Teams.....	31
<i>Ban Al-Ani, H. Keith Edwards</i>	
Global Software Development and Delay: Does Distance Still Matter?	41
<i>Thanh Nguyen, Timo Wolf, Daniela Damian</i>	
Experiences of Instant Messaging in Global Software Development Projects: A Multiple Case Study	51
<i>Tuomas Niinimäki, Casper Lassenius</i>	

PROCESSES

Implementing Software Process Improvement Initiatives: An Analysis of Vietnamese Practitioners' Views	61
<i>Muhammad Ali Babar, Mahmood Niazi</i>	
Experiences with Agile Practices in the Global Studio Project.....	71
<i>Roger Urdangarin, Paulo Fernandes, Alberto Avritzer, Daniel Paulish</i>	
Distributed Agile Development: Using Scrum in a Large Project	81
<i>Maria Paasivaara, Sandra Durasiewicz, Casper Lassenius</i>	

MODELS FOR GSP

Patterns of Evolution in the Practice of Distributed Software Development in Wholly Owned Subsidiaries: A Preliminary Capability Model	90
<i>Rafael Prikladnicki, Daniela Damian, Jorge Luis Nicolas Audy</i>	
Towards a Multi-criteria Development Distribution Model: An Analysis of Existing Task Distribution Approaches.....	100
<i>Ansgar Lamersdorf, Jürgen Münch, Dieter Rombach</i>	

Developing an Inter-site Coordination Index for Global Software Development	110
<i>Sooraj P, Pratap K.J. Mohapatra</i>	

MANAGING COMPLEXITY IN GSD

Managing Risks in Global Software Engineering: Principles and Practices	120
<i>Christof Ebert, Bvs Krishna Murthy, Namo Narayan Jha</i>	
Integration of Design in Distributed Development Using D-Scenario Graph.....	130
<i>Ananya Kanjilal, Goutam Kanjilal, Swapan Bhattacharya</i>	
Managing the Iterative Requirements Process in a Multi-national Project Using an Issue Tracker.....	140
<i>Christian R. Prause, Marius Scholten, Andreas Zimmermann, Rene Reiners, Markus Eisenhauer</i>	

REPORTING EXPERIENCES IN GSD

The Impact of Fear on the Operation of Virtual Teams	149
<i>Valentine Casey, Ita Richardson</i>	
Reporting Empirical Research in Global Software Engineering: A Classification Scheme	159
<i>Darja Smite, Claes Wohlin, Robert Feldt, Tony Gorshek</i>	
Global Software Servicing: Observational Experiences at Microsoft	168
<i>Shilpa Bugde, Nachiappan Nagappan, Sriram Rajamani, G. Ramalingam</i>	

INDUSTRY TRACK I

Global Software Development: Who Does It?	178
<i>Andrew Begel, Nachiappan Nagappan</i>	
ESB Enablement of an International Corporate Acquisition, an Experience Report.....	183
<i>Philip Hartman</i>	
Beyond Cost Reduction: Using Collaboration to Increase Innovation in Global Software Development Projects	188
<i>Theodore Forbath, Peter Brooks, Anand Dass</i>	
Ailments of Distributed Document Reviews and Remedies of DOCTOR (DOCument Tree ORganizer Tool) with Distributed Reviews Support	193
<i>Krishnamurthy T.V, Sapna Subramani</i>	

INDUSTRY TRACK II

Adopting Agile in Distributed Development	198
<i>Kalpna Sureshchandra, Jagadish Shrinivasavadhani</i>	
Usage of SCRUM Practices within a Global Company	203
<i>Maurício Cristal, Daniel Wildt, Rafael Prikladnicki</i>	
Evaluating a Networked Virtual Environment for Globally Distributed Avionics Software Development	208
<i>Redge Bartholomew</i>	

Continuous Improvement through Iterative Development in a Multi-Geography	213
<i>Jim Alain Laredo, Ravi Ranjan</i>	

EDUCATION TRACK

Improving Contextual Skills in Global Software Engineering: A Corporate Training Experience.....	218
<i>Rafael Prikladnicki, Leonardo Pilatti</i>	
Integration Starts on Day One in Global Software Development Projects	223
<i>Olly Gotel, Vidya Kulkarni, Christelle Scharff, Longchrea Neak</i>	
Developing a Course on Designing Software in Globally Distributed Teams.....	228
<i>Patricia Lago, Henry Muccini, Muhammad Ali Babar</i>	

DOCTORAL SYMPOSIUM

Coordinating Mechanisms for Agile Global Software Development.....	233
<i>Emam Hossain</i>	
Challenges of Globally Distributed Software Development – Analysis of Problems Related to Social Processes and Group Relations.....	240
<i>Arttu Piri</i>	
A Metrics Based Approach to Evaluate Design of Software Components.....	245
<i>Kuljit Kaur Chahal, Hardeep Singh</i>	
A Readiness Model for Software Development Outsourcing Vendors.....	249
<i>Siffatullah Khan, Mahmood Niazi, Rashid Ahmad</i>	
Author Index	