Processes in the GSD Wilderness

Slicing the V-Model—Reduced Effort, Higher Flexibility ................................................................. 1
Andreas Deuter

Towards Artifact Models as Process Interfaces in Distributed Software Projects ................................. 11
Marco Kührmann, Daniel Méndez Fernández, and Matthias Gröber

An Ontology for Task Allocation to Teams in Distributed Software Development .................................. 21
Anna Beatriz Marques, José Reginaldo Carvalho, Rosiane Rodrigues, Tayana Conte,
Rafael Prikladnicki, and Sabrina Marczak

Understanding the Role of Sociopsychological Factors via Qualitative Research

Revisiting the Factors that Engender Trust of Global Systems Engineers ............................................. 31
Ban Al-Ani, Sabrina Marczak, Rafael Prikladnicki, and David Redmiles

Who Are We Doing Global Software Engineering Research For? ..................................................... 41
Sarah Beecham, Padraig O’Leary, Ita Richardson, Sean Baker, and John Noll

Culture and Testing: What is the Relationship? .................................................................................. 51
Hina Shah and Mary Jean Harrold
Information Needs and Awareness
What Distributed Software Teams Need to Know and When: An Empirical Study .........................................................61
Kevin Dullemond and Ben van Gameren
Measuring Awareness in Cross-Team Collaborations—Distance Matters .................................................................71
Zia Ur Rehman Kiani, Darja Šmite, and Aamer Riaz
Negotiating Common Ground in Distributed Agile Development: A Case Study Perspective ....................................................................................................................................................................80
Sunila Modi, Pamela Abbott, and Steve Counsell

Novel Tools to Support GSD
Version Control in Distributed Software Development: A Systematic Mapping Study ..............................................90
Catarina Costa and Leonardo Murta
A Preliminary User Evaluation of an Infrastructure to Support Activity-Based Computing in Global Software Development (ABC4GSD) .........................................................100
Paolo Tell, Muhammad Ali Babar, and John Grundy
Collaborative Debugging ..................................................................................................................................................110
H. Christian Estler, Martin Nordio, Carlo A. Furia, and Bertrand Meyer

Experience in Practice I
Sustaining High Performance in an Offshore Team in Globally Distributed Development: A Success Story ........................................................................................................................................................................120
Abhinandan Bhadauria, Samrat Bhattacharjee, C.B. Anandkumar, and Suneesh Puthiyonnan
Experience in Managing Requirements between Distributed Parties in a Research Project Context ........................................................................................................................................................................124
Ken Pierce, Claire Ingram, Bert Bos, and Augusto Ribeiro
Towards Global Deployment of Software Engineering Tools ..............................................................................................129
Alpana Dubey and John Hudepohl

Tweaking Agile Methods for GSD
Integrating Global Sites into the Lean and Agile Transformation at Ericsson .................................................................134
Maria Paasivaara, Casper Lassenius, Ville T. Heikkilä, Kim Dikert, and Christian Engblom
Doing Scrum Rather Than Being Agile: A Case Study on Actual Nearshoring Practices ........................................................................................................................................................................144
Franz Zieris and Stephan Salinger
Agile Method Tailoring in Distributed Enterprises: Product Owner Teams .................................................................154
Julian M. Bass
Experience in Practice II
Managing Product Delivery Quality in Distributed Software Development ................................................................. 164
   Samrat Bhattacharjee, Abhinandan Bhadauria, and I.K. Girish Kumar
Towards Integrated Variant Management in Global Software Engineering: An Experience Report ......................................................... 168
   Christian Manz, Michael Stupperich, and Manfred Reichert
   Himanshu Kumar Singh, Umesh Uppili, and Ujwala Pavuluri

Project Management in GSD
   Tony Clear, Bilal Raza, and Stephen G. MacDonell
Using the PMBOK Guide to Frame GSD Coordination Strategies ......................................................................................... 188
   Sadhana Deshpande, Sarah Beecham, and Ita Richardson
Agile Software Development with Distributed Teams: Senior Management Support ................................................................. 197
   Siva Dorairaj, James Noble, and George Allan

Communication and Coordination in GSD
Auto-erecting Virtual Office Walls: A Controlled Experiment ......................................................................................... 206
   Ben van Gameren, Rini van Solingen, and Kevin Dullemond
Coordination of Software Development Teams across Organizational Boundary—An Exploratory Study ................................................................. 216
   Anh Nguyen-Duc and Daniela S. Cruzes
Understanding Structures and Affordances of Extended Teams in Global Software Development ................................................................. 226
   Muhammad Ali Babar and Mansooreh Zahedi

Author Index ........................................................................................................................................................................ 236