Contents

| 1 | Collaborative Software Engineering: Concepts and Techniques Jim Whitehead, Ivan Mistrík, John Grundy, and André van der Hoek | 1 |
|------|--|-----|
| Part | I Characterizing Collaborative Software Engineering | |
| 2 | Global Software Engineering: A Software Process Approach Ita Richardson, Valentine Casey, John Burton, and Fergal McCaffery | 35 |
| 3 | Requirements-Driven Collaboration: Leveraging the Invisible Relationships between Requirements and People Daniela Damian, Irwin Kwan, and Sabrina Marczak | 57 |
| 4 | Softwares Product Lines, Global Development and Ecosystems: Collaboration in Software Engineering | 77 |
| | Collaboration, Communication and Co-ordination in Agile Software Development Practice | 93 |
| | Applications of Ontologies in Collaborative Software Development Hans-Jörg Happel, Walid Maalej, and Stefan Seedorf | 109 |
| Part | II Tools and Techniques | |
| | Towards and Beyond Being There in Collaborative Software Development | 135 |
| | Continuous Coordination Tools and their Evaluation Anita Sarma, Ban Al-Ani, Erik Trainer, Roberto S. Silva Filho, Isabella A. da Silva, David Redmiles, and André van der Hoek | 153 |

UTSCH

xviii Contents

| 9 | The Configuration Management Role in Collaborative Software Engineering | 179 |
|-----|---|-----|
| 10 | The GRIFFIN Collaborative Virtual Community for Architectural Knowledge Management | 195 |
| 11 | Supporting Expertise Communication in Developer-Centered Collaborative Software Development Environments | 219 |
| Par | t III What We Know (and Do not Know) About Collaborative Software Engineering | |
| 12 | Distributed and Collaborative Software Analysis | 241 |
| 13 | Dynamic Analysis of Communication and Collaboration in OSS Projects | 265 |
| 14 | A Comparison of Commonly Used Processes for Multi-Site Software Development | 285 |
| Par | t IV Emerging Issues in Collaborative Software Engineering | |
| 15 | Collaboration Practices and Affordances in Free/Open Source Software Development | 307 |
| 16 | OUTSHORE Maturity Model: Assistance for Software Offshore Outsourcing Decisions | 329 |
| 17 | Collaborative Software Architecting Through Knowledge Sharing Peng Liang, Anton Jansen, and Paris Avgeriou | 343 |
| 18 | Collaborative Product Line Requirements Engineering Using Rationale | 369 |
| 19 | Collaborative Software Engineering: Challenges and Prospects Ivan Mistrík, John Grundy, André van der Hoek, and Iim Whitehead | 389 |