

1. Record Nr.	UNIBAS000010882
Autore	Hamsun, Knut
Titolo	Le opere / Knut Hamsun ; introduzione di Carlo Picchio
Pubbl/distr/stampa	Torino : Unione Tipografico-Editrice Torinese, stampa1979
ISBN	88-02-01550-3
Descrizione fisica	XXXVI,787 p. : 1 ritr. ; 17 cm.
Collana	Scrittori del mondo: i Nobel
Disciplina	839.82
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Fame ; Pan ; Victoria ; Il risveglio della terra
2. Record Nr.	UNINA9910298970403321
Titolo	Continuous Software Engineering // edited by Jan Bosch
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2014
ISBN	3-319-11283-X
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (230 p.)
Disciplina	004 005.1 005.74 658514
Soggetti	Software engineering Management Industrial management Management information systems Computer science Software Engineering Innovation/Technology Management Management of Computing and Information Systems Software Management

Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Part I Introduction -- 1 Continuous Software Engineering: An Introduction -- 2 Climbing the “Stairway to Heaven”: Evolving From Agile Development to Continuous Deployment of Software -- 3 Academia–Industry Collaboration: Getting Closer is the Key! -- Part II Agile Practices -- 4 Role of Architects in Agile Organizations -- 5 Teams Interactions Hindering Short-Term and Long-Term Business Goals -- 6 A Framework for Speeding Up Interactions Between Agile Teams and Other Parts of the Organization -- 7 Customer-Specific Teams for Agile Evolution of Large-Scale Embedded Systems -- Part III Continuous Integration -- 8 The CIViT Model in a Nutshell: Visualizing Testing Activities to Support Continuous Integration -- 9 Continuous Integration Flows -- 10 Towards Continuous Integration for Cyber-Physical Systems on the Example of Self-Driving Miniature Cars -- 11 Industrial Application of Visual GUI Testing: Lessons Learned -- Part IV R&D as an Innovation System -- 12 Post-deployment Data Collection in Software-Intensive Embedded Products -- 13 The HYPEX Model: From Opinions to Data-Driven Software Development -- Part V Organizational Performance Metrics -- 14 Profiling Prerelease Software Product and Organizational Performance -- 15 Industrial Self-Healing Measurement Systems -- Part VI Industry Best Practices and Case Studies -- 16 Experiences from Implementing Agile Ways of Working in Large-Scale System Development -- 17 Scaling Agile Mechatronics: An Industrial Case Study.
Sommario/riassunto	This book provides essential insights on the adoption of modern software engineering practices at large companies producing software-intensive systems, where hundreds or even thousands of engineers collaborate to deliver on new systems and new versions of already deployed ones. It is based on the findings collected and lessons learned at the Software Center (SC), a unique collaboration between research and industry, with Chalmers University of Technology, Gothenburg University and Malmö University as academic partners and Ericsson, AB Volvo, Volvo Car Corporation, Saab Electronic Defense Systems, Grundfos, Axis Communications, Jeppesen (Boeing) and Sony Mobile as industrial partners. The 17 chapters present the “Stairway to Heaven” model, which represents the typical evolution path companies move through as they develop and mature their software engineering capabilities. The chapters describe theoretical frameworks, conceptual models and, most importantly, the industrial experiences gained by the partner companies in applying novel software engineering techniques. The book’s structure consists of six parts. Part I describes the model in detail and presents an overview of lessons learned in the collaboration between industry and academia. Part II deals with the first step of the Stairway to Heaven, in which R&D adopts agile work practices. Part III of the book combines the next two phases, i.e., continuous integration (CI) and continuous delivery (CD), as they are closely intertwined. Part IV is concerned with the highest level, referred to as “R&D as an innovation system,” while Part V addresses a topic that is separate from the Stairway to Heaven and yet critically important in large organizations: organizational performance metrics that capture data, and visualizations of the status of software assets, defects and teams.

Lastly, Part VI presents the perspectives of two of the SC partner companies. The book is intended for practitioners and professionals in the software-intensive systems industry, providing concrete models, frameworks and case studies that show the specific challenges that the partner companies encountered, their approaches to overcoming them, and the results. Researchers will gain valuable insights on the problems faced by large software companies, and on how to effectively tackle them in the context of successful cooperation projects.

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