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Titolo	Making Things Stick : Surveillance Technologies and Mexico's War on Crime
Pubbl/distr/stampa	University of California Press
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Titolo	Accelerating Digital Transformation : 10 Years of Software Center / / edited by Jan Bosch, Jan Carlson, Helena Holmström Olsson, Kristian Sandahl, Miroslaw Staron
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2022
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Disciplina	005.1
Soggetti	Software engineering Software engineering - Management Software Engineering Software Management
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Part I: Continuous Delivery -- Introduction to the Continuous Delivery Theme -- 1. Climbing the Stairway to Heaven -- 2. Modeling Continuous Integration Practice Differences in Industry Software Development -- 3. Efficient and Effective Exploratory Testing of Large-Scale Software Systems -- Part II: Continuous Architecture -- Introduction to the Continuous Architecture Theme -- 4. Technical

Debt Tracking: Current State of Practice: A Survey and Multiple Case Study in 15 Large Organizations -- 5. Expectations and Challenges from Scaling Agile in Mechatronics-Driven Companies – A Comparative Case Study -- 6. Lightweight Consistency Checking for Agile Model-Based Development in Practice -- Part III: Metrics -- Introduction to the Metrics Theme -- 7. MESRAM – A Method for Assessing Robustness of Measurement Programs in Large Software Development Organizations and Its Industrial Evaluation -- 8. Recognizing Lines of Code Violating Company-Specific Coding Guidelines Using Machine Learning.-9. SimSAX: A Measure of Project Similarity Based on Symbolic Approximation Method and Software Defect Inflow -- Part IV: Customer Data and Ecosystem Driven Development -- Introduction to the Customer Data and Ecosystem-Driven Development Theme -- 10. Requirements Engineering Challenges and Practices in Large-Scale Agile System Development -- 11. Experimentation for Business-to-Business Mission-Critical Systems: A Case Study -- 12. The Evolution of Continuous Experimentation in Software Product Development: From Data to a Data-Driven Organization at Scale -- Part V: AI Engineering -- Introduction to the AI Engineering Theme -- 13. Engineering AI Systems.

Sommario/riassunto

This book celebrates the 10-year anniversary of Software Center (a collaboration between 18 European companies and five Swedish universities) by presenting some of the most impactful and relevant journal or conference papers that researchers in the center have published over the last decade. The book is organized around the five themes around which research in Software Center is organized, i.e. Continuous Delivery, Continuous Architecture, Metrics, Customer Data and Ecosystems Driven Development, and AI Engineering. The focus of the Continuous Delivery theme is to help companies to continuously build high quality products with the right degree of automation. The Continuous Architecture theme addresses challenges that arise when balancing the need for architectural quality and more agile ways of working with shorter development cycles. The Metrics theme studies and provides insight to understand, monitor and improve software processes, products and organizations. The fourth theme, Customer Data and Ecosystem Driven Development, helps companies make sense of the vast amounts of data that are continuously collected from products in the field. Eventually, the theme of AI Engineering addresses the challenge that many companies struggle with in terms of deploying machine- and deep-learning models in industrial contexts with production quality. Each theme has its own part in the book and each part has an introduction chapter and then a carefully selected reprint of the most important papers from that theme. This book mainly aims at researchers and advanced professionals in the areas of software engineering who would like to get an overview about the achievement made in various topics relevant for industrial large-scale software development and management – and to see how research benefits from a close cooperation between industry and academia.