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Nota di contenuto	Full Research Papers -- Coverage Isn’t Enough: SBFL-Driven Insights into Manually Created vs. Automatically Generated Tests -- AI Alignment for Ethical Compliance and Risk Mitigation in Industrial Applications -- In-House Experimentation Platforms - Motivations, Implementation Characteristics and Challenges -- Writing Aids for Agile Requirements Engineering - A Comparative Study Between Natural Language Processing and Machine Learning -- A Robust LSTM-based Test Selection Method for Self-Driving Cars -- FOSS-chain: Using Blockchain for Open Source Software License Compliance -- Improving the Writing Quality of User Stories: A Canonical Action Research Study -- From Machine Learning Documentation to Requirements: Bridging

Processes with Requirements Languages -- Enhancing Python Code Maintainability through Large Language Model-Based Approaches -- Large Language Models for Code Maintainability Improvement: An Exploratory Study -- An Investigation of Low-Code Development Adoption in a Finnish IT Consulting Firm -- Serverless Adoption in Practice: A Socio-Technical Investigation of Motivations, Challenges, and Strategies -- Generative AI in Simulation-Based Test Environments for Large-Scale Cyber-Physical Systems: An Industrial Study -- Pipelines Under Pressure: An Empirical Study of Security Misconfigurations of GitHub Workflows -- Towards Effective Automation of Issue–Commit Link Recovery: An Empirical Investigation -- Policy-driven Software Bill of Materials on GitHub: An Empirical Study -- Generating Business Process Models with Open Source Large Language Models using Instruction Tuning -- Temporal Evolution of Architectural Complexity and Technical Debt in Microservices: An Exploratory Case Study -- Improving Behavior-Driven Development Scenarios: Empirical Evaluation of a Quality Assement Framework -- Application of Large Language Models in Product Management: A Systematic Literature Review -- Detecting Technical Debt in Source Code Changes using Large Language Models -- Towards Understanding Team Congestion in Large-Scale Software Development -- Influence of LLM Prioritizations on Human Decisions in Requirements Engineering -- Short Research Papers -- Lab Package Development as a Means for Educating Software Engineering Students -- A Model-Driven Engineering Method for the Development of Digital Twins -- LLM-based Multi-Agent System for Intelligent Refactoring of Haskell Code -- Learning Observability Tracing Through Experiential Learning -- Privacy-Enhanced Software Design: Purpose-Aware UML Diagrams -- Requirements Communication at the Intersection between RE and UX -- Architecture Degradation at Scale: Challenges and Insights from Practice -- From Scenario Selection to Simulation: Safety Testing of an Automated Driving System -- Prompts as Software Engineering Artifacts: A Research Agenda and Preliminary Findings -- An Application of Program Mutations For Generating Negative Test Scripts Mimicking Human Errors on Web Applications -- MAPS-AI – A Tool for AI-Assisted Model-Driven Generation of IT Project Plan and Scope -- Ticket-Augmented Just-in-Time Defect Prediction -- How Well Small Language Models Can Be Adapted for Software Maintenance and Refactoring Tasks -- Cost of Artificial Intelligence in Finnish Software Companies: A Survey -- Exploring the Performance of ML Model Size for Classification in Relation to Energy Consumption -- Towards Understanding the Developer Experience in Quantum Software Development -- On the Use of Agentic Coding Manifests: An Empirical Study of Claude Code -- Detecting and Characterizing Low and No Functionality Packages in the NPM Ecosystem -- PostItFlow: An Early Study on Agentic Workflow for Enhancing and Visualizing User Stories -- An Empirical Study of Security-Policy Related Issues in Open Source Projects.

Sommario/riassunto

This book constitutes the refereed proceedings of the 26th International Conference on Product-Focused Software Process Improvement, PROFES 2025, held in Salerno, Italy, during December 1–3, 2025. The 23 full research papers and 20 short research papers presented in this volume were carefully reviewed and selected from 101 submissions. PROFES 2025 focuses on professional Software Process Improvement (SPI) motivated by product, process, and service quality needs. The technical program was curated by a committee of distinguished experts in software process improvement, software process modeling, and empirical software engineering.