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Nota di contenuto	Keynote Address -- Keynote Address: CMMI: Improving Processes for Better Products -- Keynote Address -- Keynote Address: SW Engineering under Tight Economic Constrains -- Panel -- Panel Agile Methods in a Mature Process Environment -- Improvement Management -- A Systems Perspective on Software Process Improvement -- Transition Management of Software Process Improvement -- Managing the Improvement of SCM Process -- Process Modeling -- Exploiting a Virtual Environment in a Visual PML -- Integrating Dynamic Models for CMM-Based Software Process

Improvement -- Simulation-Based Risk Reduction for Planning Inspections -- Software Quality -- Introducing Object Validation and Navigation in Software Process to Improve Software Quality -- A Framework for Software Quality Evaluation -- Component Certification - What is the Value? -- Agile Software Development -- Agile Development: Good Process or Bad Attitude? -- Organisational Culture in Agile Software Development -- Making a Method Work for a Project Situation in the Context of CMM -- Process Improvement Approaches -- A Practical Application of the IDEAL Model -- On Software Maintenance Process Improvement Based on Code Clone Analysis -- Is Your Project Ready for Time-to-Market Focus? -- Methods and Techniques -- Daibutsu-den: A Component-Based Framework for Organizational Process Asset Utilization -- Extracting Initial UML Domain Models from Daml+OIL Encoded Ontologies -- Assessment of User-Centred Design Processes - Lessons Learnt and Conclusions -- Embedded Software Process Improvement -- Characteristics of Process Improvement of Hardware-Related SW -- Evaluating Evolutionary Software Systems -- Process Improvement Case Studies -- Improving the Reuse Process is Based on Understanding the Business and the Products: Four Case Studies -- “Leave the Programmers Alone”- A Case Study -- Methods and Techniques -- Software Configuration Management Principles and Best Practices -- Benefits Resulting from the Combined Use of ISO/IEC 15504 with the Information Technology Infrastructure Library (ITIL) -- Effective Uses of Measurements -- Enabling Comprehensive Use of Metrics -- Product and Process Metrics: A Software Engineering Measurement Expert System -- Wireless Services -- Empirically Driven Design of Software Development Processes for Wireless Internet Services -- The WISE Approach to Architect Wireless Services -- Process Improvement via Use Cases -- Improving Estimation Practices by Applying Use Case Models -- Software Process Improvement through Use Cases: Building Quality from the Very Beginning -- Knowledge Management -- From Knowledge Management Concepts toward Software Engineering Practices -- What Are the Knowledge Needs during the Project Lifecycle in an Expert Organisation? -- Consensus Building when Comparing Software Architectures -- Embedded Systems Methods -- Software Technologies for Embedded Systems: An Industry Inventory -- Integrating Software Engineering Technologies for Embedded Systems Development -- Experiences and Lessons Learned Using UML-RT to Develop Embedded Printer Software -- COTS Quality Techniques -- COTS Evaluation Using Desmet Methodology & Analytic Hierarchy Process (AHP) -- Black-Box Evaluation of COTS Components Using Aspects and Metadata -- The Dimensions of Embedded COTS and OSS Software Component Integration -- Process Improvement Frameworks -- Software Engineering Process Benchmarking -- A Meta-model Framework for Software Process Modeling -- An XMI-Based Repository for Software Process Meta-modeling -- Mobile Solutions -- Software Solutions to Internet Connectivity in Mobile Ad Hoc Networks -- Mobile Application Architectures -- Wireless Games - Review and Experiment -- Methods and Techniques -- Analysis of Risks in a Software Improvement Programme -- Generation of Management Rules through System Dynamics and Evolutionary Computation -- Heterogeneous Information Systems Integration: Organizations and Methodologies.

Sommario/riassunto

On behalf of the PROFES organizing committee we would like to welcome you to the 4th International Conference on Product Focused Software Process Improvement (PROFES 2002) in Rovaniemi, Finland. The conference was held on the Arctic Circle in exotic Lapland under the Northern Lights just before Christmas time, when Kaamos (the

polar night is known in Finnish as ”Kaamos”) shows its best characteristics. PROFES has established itself as one of the recognized international process improvement conferences. Despite the current economic downturn, PROFES has attracted a record number of submissions. A total of 70 full papers were submitted and the program committee had a difficult task in selecting the best papers to be presented at the conference. The main theme of PROFES is professional software process improvement (SPI) motivated by product and service quality needs. SPI is facilitated by software process assessment, software measurement, process modeling, and technology transfer. It has become a practical tool for quality software engineering and management. The conference addresses both the solutions found in practice and the relevant research results from academia.