Conference Organization
Program Chair's Message

Software improvement feedback loops: The SEL experience p. 1
Technical Requirements for the Implementation of an Experience Base p. 10
Managing software engineering experience for comprehensive reuse p. 20
Knowledge Management in Software Engineering Projects p. 28
Specifying interactions in Cooperative applications p. 36
Specifications of Knowledge Components for Reuse p. 44
Formal specification and prototyping of multimedia applications p. 52
Graph Technology for Structured Documents p. 64
Modeling Behavior with Personalities p. 71
A case study in applying ontologies to augment and reason about the correctness of specifications p. 88
Taxonomy and Selection of Quality Measurements and Models p. 92
Software development with domain analysis: a process improvement experiment p. 93
Integrated Use of Software Assessments and Measurements p. 102
Are Virtual Universities a model for answering continuous vocational educational demands in software engineering education? p. 106
Software engineering education and training: Current deficits and the Fraunhofer IESE approach p. 116
Software engineering education: an industrial viewpoint p. 120
Software product lines: A Succulent Minestrone with lots of Flavours p. 128
Business modeling and support for software product lines: a synergetic approach p. 136
Studying the trade-off between generality and specificity in developing Product Line Designs p. 144
An analysis of software product lines under the perspectives of the coordination theory p. 152
How to do the Software Product Lines Right p. 162
The use of linguistics in Software and Knowledge Engineering, in particular for information systems design p. 170
Proactive Knowledge Delivery for Enterprise Knowledge Management p. 175
Intelligent Retrieval of Software Engineering Experienceware p. 180
Proposal of a Joint Graduate Program in SE and KE p. 187
Specifying Software Architectural Connectors in SAM p. 192
A Technique to Specify Software Architectures Based on Coloured Petri Nets p. 197
A Multi-Agent Architecture for Cooperative Software Engineering Environments p. 181
Using Knowledge Servers to Promote Knowledge Integration in Software Engineering Environments p. 187
Process Support for Virtual Software Organizations p. 192
Using Domain-Knowledge in Software Development Environments p. 197
An All-Reuse Methodology for KBS Components Library
Collecting, storing and utilising information about improvement opportunities: A Discussion of the non-technological barriers to success p. 200

The Software Experience Approach p. 203

From Software Experience Databases to Learning Organizations p. 204

Test Scenario and Test Case Generation based on Object-Z Formal Specification p. 207


Fewer Slices of PIE: Optimizing Mutation Testing via Abduction p. 217

Application of Proof Obligations in the Design Process p. 222

An Intelligent Argumentation Methodology for Capturing and Analyzing Design Rationale From Multiple Perspectives p. 227

A Design Model for A Visual Language Generation Environment p. 232

Application of Task Analysis to the Validation of Software Requirements p. 239

Process simulation model: how can they be used to support learning in software organizations? p. 246

Organizational learning with system dynamics simulation models p. 248

Learning from Simulation? Mind your language p. 251

Getting the benefits from software process simulation p. 253

Visual Programming Support for Coordination of Web-Based Process Modelling p. 257

Towards a Way to Deal with Continuous Attributes in Decision Trees p. 262

A Parallel Program Generation Environment for Solving PDEs on Distributed Memory Computing Environments p. 267

Could Problems in Software Development be Mitigated Through a More Practical Education? p. 273

A Dependency Computing Model for Software Evolution p. 278

Application of "Learning Curve Based Simulation Model for Software Development to Industry" p. 283

Constructing Control-Flow Based Testing Tools for Web Application p. 290

Systematic Testing and Reviewing p. 295

Experiences using and Application Generator Builder p. 300

Dynamic plug-in components for Distributed Objects p. 305

An Approach to an Integrated Intelligent CASE Tool for Automatic Software Design p. 310

Hybrid AI Techniques for Software Design p. 315

Continuous Improvement of Reuse-Driven SDL System Development p. 320

Development of an Engineering Tool for the Design and Optimization of Knowledge-Based Control Structures p. 327

Definition and Instantiation of a Reference Model for Problem Specifications p. 332

Knowledge Management for Complex Systems p. 337

UML as domain specific language for the construction of knowledge based configurations systems p. 346

Object Modeling to Re-engineer Legacy Systems p. 354

From an Object Semantic Model to a Design of SPA p. 362

Using Incremental Planning to Foster Application Frameworks Reuse p. 370

Distributed Process Planning Support with MILOS p. 370