

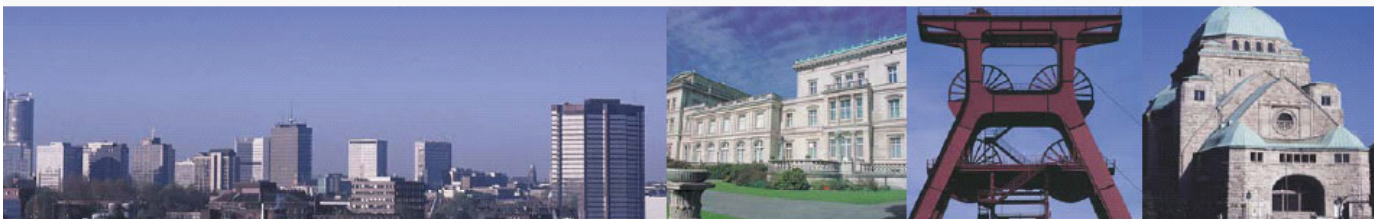
+++ PRELIMINARY PROGRAM +++

IEEE JOINT INTERNATIONAL

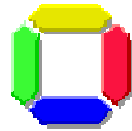
REQUIREMENTS ENGINEERING CONFERENCE

September 09–13, 2002

UNIVERSITY OF ESSEN, GERMANY



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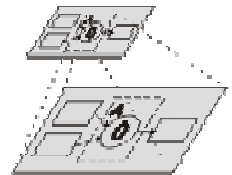
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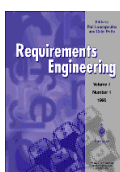
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Welcome to RE'02 – Welcome to Essen

With RE '02 we celebrate the foundation of the flagship conference in the area of requirements engineering. The IEEE Intl. Requirements Engineering Conference (RE) results from the “unification” of the former IEEE Intl. Conference on RE (ICRE) and the IEEE Intl. Symposium on Requirements Engineering (RE). The main conference runs from Wednesday, 11th September till Friday, 13th September.

Prior to the main program, there are two days of tutorials and workshops. Four full-day tutorials and six half-day tutorials teach important RE topics. Five RE-related workshops and a doctoral symposium provide a forum for discussing research results and novel ideas.

Program Highlights

The keynote speakers cover three different facets of requirements engineering:

- On Wednesday morning, Wojtek Kozaczynski will explore the software engineering facet by discussing dependencies between architectures, requirements and risks.
- On Wednesday afternoon, Frank Schönthaler will tackle the business process facet emphasizing the importance of risk management in business requirements engineering.
- On Thursday morning, John Carroll will address the HCI (Human Computer Interface) facet and discuss the most appropriate circumstances under which scenarios are effective in design.

The research paper track includes 24 papers grouped in 8 different sessions. The following topics are covered: use cases, goals, product lines, RE processes, validation, change management, component reuse, and RE and design.

The experience paper track comprises three sessions where 9 papers are presented. Those papers will report on case reports, success and failure stories and empirical studies. These presentations will be of interest for a broad audience of researchers and practitioners.

The industrial presentations track complements the experience paper track with industrial talks dealing with descriptions, exploitation, deployment, comparisons, and evaluations of different RE solutions applied in different fields. 13 industrial presentations are grouped in 5 sessions that stimulate the exchange between industry and research.

The vision paper session is a new type of session in the RE program that will help in the exploration of the RE future. This session will take place on Thursday afternoon. It includes 3 paper presentations, each followed by a controversy statement made by an assigned discussant.

Research demo track on Thursday includes presentations by the research presenters as well as a research demo exhibition subsequent to the presentation track.

The tool vendor and publisher exhibition is open on Tuesday evening during the reception, Wednesday and Thursday all day, and Friday morning. It features 12 companies with tools, services and books related to RE. In addition, exhibitors will give tool presentations in two sessions held on Wednesday.

On Thursday, the program will start with Best Research and Experience *Papers Awards*.

All vision, research and experience papers are printed in full length in the conference proceedings, published by IEEE Computer Society Press. These proceedings also include a one-page abstract for industrial presentations. Separate proceedings include a copy of presented slides of industrial talks.

The Venue

The conference is being held on the main campus of the University of Essen (see detailed maps at the end of this program). All lecture halls and seminar rooms used for the conference are clearly signposted. The coffee breaks on Monday and Tuesday will be held in the HSZ-building. From Wednesday till Friday, coffee will be served in the Audimax-building. Lunches will be served in the student cafeteria (Mensa). The registration and information desk, located in the lower floor of the Audimax-building, will be opened from Monday till Friday 1 hour before the first session starts.

Social Events

Welcome Reception: On Tuesday evening, an informal reception will be held in the exhibition area (Audimax-building). While enjoying the refreshments you will have the opportunity to browse through the exhibitions and to informally meet conference and pre-conference participants.

Conference Dinner and Guided Tour at Zeche Zollverein: On Wednesday, the conference dinner will be held at “Zeche Zollverein” which was a large coal mining and coal processing plant. The four-course dinner including beverages will be served in the hall where the raw coal was sorted according quality and size. Prior to the conference dinner, a guided tour is offered especially for conference participants, which will show and explain the various facilities of this large plant.

The tour is highly recommended since a hands on experience of the coal industry is given which is impossible in a running plant. The tour will have English-speaking guides and will last for ca 1.5 hours.

Zeche Zollverein started operations in 1932. It has a special architecture and had the most up to date equipment of that time. In this period Zollverein in Essen was the largest coal mining and processing plant in the world. The plant finished its operations in the coal business in 1986 and while some of the machinery was dismantled, the entire area was reconstructed as an industrial monument. Most of the buildings and the remaining machines are still in place and can be visited. Due to the unique architecture and its size and also due to its significance for coal industry in general, Zeche Zollverein was awarded by UNESCO to the title “World Industrial Heritage”, in December 2001.

Organization: Note that you have to register for the conference dinner and for the guided tour. Bus services will be provided after the last session on Wednesday (starting at 17:00) to Zeche Zollverein, leaving from the car park behind the Audimax. Buses will also bring you back to the city center and to the main hotels (Astoria, Rema, Ambassador, Express by Holiday Inn, Arosa, and Jung) after the conference dinner. If you want to leave earlier, a tram runs in front of Zeche Zollverein to the city center of Essen.

Party at Stauder Brewery: On Thursday, an informal get together with live music and buffet will be held in the rooms and halls of the Stauder Brewery. This is close to the actual beer production! The Stauder Brewery, founded in 1867, is one of the last breweries in private ownership and offers a scenic flavor of the way beer is produced for the regional market. Enjoy the local beer and buffet provided while chatting with fellow requirements engineers' and listening to the music and enjoying the bands performances.

Organization: Note that you have to register for the party. Bus transfers will be provided to the Stauder Brewery and back to the city center and the main hotels (Astoria, Rema, Ambassador, Express by Holiday Inn, Arosa, and Jung). Bus transfers to Stauder will start at 19:00, leaving from the car park behind the Audimax.

Live Band at Stauder: Pop music will be played by the band call "The wild Seven". They have been touring through Germany, Europe and North America. In addition to their broad music repertoire, they will start a show after the meal. This promises to be of great fun and gets everyone in the right requirements engineers' leisure mood (or mode).

We hope you will enjoy the conference, and have at least a little time to explore the “*Ruhrgebiet*”



Sol Greenspan
(General Co-Chair)



Jawed Siddiqi
(General Co-Chair)



Eric Dubois
(PC Co-Chair)



Klaus Pohl
(PC Co-Chair)



Michael Goedicke
(Organization Chair)

Keynote Addresses

Wojtec Kozaczynski, Rational Software Corporation, USA Requirements,
Architectures and Risks (Wed. 9:10 – 10:40)

Even experienced teams often find it difficult to identify and isolate the architecturally significant requirements, accurately pinpoint key risk and address both with a good architectural design.



Wojtek (Voytek) Kozaczynski, Ph.D. is the Director of Architectures & Application Frameworks at Rational where he is leading development of software frameworks. He has over 20 years of software development experience including work in architectures, software composition, large-scale software reuse and software tools and processes

Frank Schönthaler, PROMATIS AG, Germany

Risk Management in Challenging Business Software Projects (Wed. 14:00 – 15:30)

Today's business processes are dealing with sophisticated business-to-business relationships and complex software integrations leading to a high risk of project failure. Experience shows that a significant risk reduction if Risk Management is systematically applied.



Dr. Frank Schönthaler worked in Information Systems and Business Engineering with special emphasis (PhD word) on information system development based on rapid prototyping. In 1990 he founded PROMATIS and worked as a senior consultant, trainer and project manager for PROMATIS early customer projects. Now as President and CEO he keeps all team members focused on the PROMATIS vision of delivering best-in-class software products and solutions.

John Carroll, Virginia Tech, USA

Scenarios and Design Cognition (Thu. 9:00 – 10:30)

Scenarios of human activity are widely used in the design of computer systems and software. This can be understood in terms of design cognition: Scenarios support and enhance the solution-first strategy, typical of expert problem-solving in planning and design



John Carroll is Professor of Computer Science, Education, and Psychology, and Director of the Center for Human-Computer Interaction all at Virginia Tech. His research is in methods and theory for human-computer interaction, particularly as applied to tools for collaborative learning and problem solving. His books include *Making use* (MIT Press, 2000), *HCI in the New Millennium* (Addison-Wesley, 2002), and *Usability Engineering* (Morgan-Kaufman, 2002). He received the Rigo Award from ACM, the Silver Core Award from IFIP, and was elected to the CHI Academy

Monday Program

Workshops

09:00 – 17:30

WS1
OSLO

RE: Foundation for Software Quality (REFSQ)

Camille Salinesi, University Paris 1 (France); Björn Regnell, Lund University (Sweden)

WS2
ATHENS

Requirements Engineering for Product Lines (REPL)

Birgit Geppert, Avaya Labs (USA); Klaus Schmid, Fraunhofer IESE (Germany)

WS3
HELSINKI

Requirements for High Assurance Systems (RHAS)

Connie Heitmeyer, Naval Research Labs (USA); Nancy Mead, SEI (USA)

WS4
ROME

Time-Constrained Requirements Engineering (TCRE)

Armin Eberlein, University of Calgary (Canada); Sol Greenspan, Consultant (USA); Julio Leite, PUC-Rio (Brazil)

WS5
LONDON

RE für Auftraggeber- / Auftragnehmer- Mgmt.

Barbara Paech, Fraunhofer IESE (Germany)

Full Day Tutorials

09:00 – 17:30

T01
MADRID

Just Enough Requirements Management (JERM)

Alan Davis, University of Colorado (USA)

Doctoral Consortium

09:00 – 17:30

STOCKHOLM

Doctoral Consortium

Chair: Anthony Finkelstein (UK)

Tuesday Program

Workshop

09:00 – 17:30

WS1
OSLO

RE: Foundation for Software Quality (REFSQ), cont.

Camille Salinesi, University Paris 1 (France); Björn Regnell, Lund University (Sweden)

Full Day Tutorials

09:00 – 17:30

T03
HELSINKI

Agile Requirements Engineering

Holger Breitling, University of Hamburg (Germany); Petra Becker-Pechau, Stefan Roock, Apcon Workplace Solutions GmbH (Germany)

T04
STOCKHOLM

User Driven Design

Donald Gause, State University of New York/Binghamton (USA)

Half Day Tutorials

09:00 – 12:30

T05
MADRID

Reconciling Requirements, Use Cases and OO-Mod.

Hermann Kaindl, Siemens AG Österreich, PSE (Austria)

T06
ROME

Learn How to Select the 'Right' Requirements Elicitation Technique

Ann Hickey, Alan Davis, University of Colorado (USA)

T07
ATHENS

EasyWinWin: A Groupware-Supported Methodology for Requirements Negotiation

Paul Grünbacher, Kepler University Linz (Austria); Robert O. Briggs, University of Arizona (USA)

14:00 – 17:30

T08
MADRID

Creativity, the Path to Innovative Requirements

Suzanne Robertson, Atlantic Systems Guild (UK); Neil Maiden, City University London (UK)

T09
ROME

NFRs: from Elicitation to Modeling Languages

Luiz Marcio Cysneiros, York University (Canada); Julio Leite, PUC-Rio de Janeiro (Brazil)

T10
ATHENS

Introduction to Formal Modeling

Steve Easterbrook, University of Toronto (Canada)

19:30 – 21:00

+++ Reception +++ Exhibition +++ Registration +++

Wednesday Technical Program

08:25 – 09:10

BERLIN

Welcome to RE'02

09:10 – 10:40

BERLIN

Keynote Address

Session Chair: Eric Dubois

Requirements, Architectures and Risks

W. Kozaczynski, Rational Software Corporation, USA

11:00 – 12:30

BERLIN

Paper Session 1: Goals in RE

Session Chair: Suzanne Robertson

AGORA: Attributed Goal-Oriented Requirements Analysis Method

H. Kaiya, H. Horai, and M. Saeki

Analyzing Website Privacy Requirements Using a Privacy Goal Taxonomy

A. Antón, J. Earp, and A. Reese

Deriving Use Cases from Organizational Modeling

V. Santander and J. Castro

PARIS

Experience Session 1: RE Process

Session Chair: Björn Regnell

Introducing Requirements Engineering: How to Make a Cultural Change Happen in Practice

M. Kauppinen, S. Kujala, T. Aaltio, and L. Lehtola

Improving the Requirements Engineering Process for An Electronic Clearinghouse

M. Fecko and C. Lott

Initial Industrial Experience of Misuse Cases in Trade-Off Analysis

I. Alexander

LONDON

Tool Presentation 1

Session Chair: Roel Wieringa

QA Systems: Collaborative Requirements Management Using CaliberRM™

M. Amann

Telelogic: Efficient Requirement Management with Telelogic DOORS

K. Weyh

SOPHIST Technologies: C.A.R.E. 3.0 - Taking Requirements Engineering and Management a Step Further

M. Wolfstetter

Wednesday Technical Program, cont.

11:00 – 12:30 Tool Presentation 1, cont.

LONDON

QualityPark: Managing Variant Requirements

L. James

TCP Sistemas e Ingeniería: IrqA - the New Generation in Requirements Engineering

B. Rincon

14:00 –15:30

BERLIN

Keynote Address

Session Chair: Michael Goedicke

Risk Management in Challenging Business Software Projects

F. Schönthaler, PROMATIS AG, Germany

16:00 – 17:00

BERLIN

Paper Session 2: Validation

Session Chair: Connie Heitmeyer

On the Use of Visualization in Formal Requirements Specification

N. Dulac, T. Viguier, N. Leveson, and M.-A. Storey

Visual Requirements Validation: Case Study in a Corba-Supported Environment

P. Fenkam, H. Gall, and M. Jazayeri

Industrial Talks 1: Embedded Systems

Session Chair: Betty Cheng

Managing (Requirements) Evolutions of High Assurance Systems

M. Lemoine and J. Foisseau

Model Based Requirements Engineering for Embedded Software

M. von der Beeck, P. Braun, M. Rappl, and C. Schröder

Tool Presentation 2

Session Chair: Roel Wieringa

Rational Software: Reducing Errors in Release Planning by Automating Rational RequisitePro

R. Menke

PROMATIS: The Key to Successful Requirements Engineering – Business Process Management

M. von Mevius

CEDITI: Grail tool: Turn your Needs into Goal-oriented Requirements Models

R. Darimont

LONDON

Thursday Technical Program

08:30 – 09:00

BERLIN

Research and Experience Paper Awards

09:00 – 10:30

BERLIN

Keynote Address

Session Chair: Klaus Pohl

Scenarios and Design Cognition

J.M. Carroll, Virginia Tech, USA

11:00 – 12:30

BERLIN

Paper Session 3: Component Reuse

Session Chair: Anthony Finkelstein

Legal Requirements Reuse: A Critical Success Factor for Requirements Quality and Personal Data Protection

A. Toval, A. Olmos, and M. Piattini

A Quality-Model-Based Approach for Describing and Evaluating Software Packages

X. Franch and J. Carvallo

Multi-faceted Requirements Modeling

C. Kong and P. Alexander

PARIS

Industrial Talks 2: Product Management

Session Chair: Daniel M. Berry

Requirements Management In a Product Line Scenario

C. Ebert

Product Management Assessment - A New Approach to Optimize the Early Phases

T. Fritzhanns and F. Kudorfer

LONDON

Paper Session 4: RE and Design

Session Chair: Andy Schürr

Requirements Patterns for Embedded Systems

S. Konrad and B. Cheng

Relating Software Requirements and Architectures Using Problem Frames

J. Hall, M. Jackson, R. Laney, B. Nuseibeh, and L. Rapanotti

Are Their Design Specifications Consistent with our Requirements?

A. Kozlenkov and A. Zisman

Thursday Technical Program, cont.

14:00 – 16:00

Paper Session 5: Use Cases

Session Chair: Neil Maiden

Application of Linguistic Techniques for Use Case Analysis

A. Fantechi, S. Gnesi, G. Lami, and A. Maccari

Supporting Requirements Verification Using XSLT

A. Durán Toro, A. Ruiz-Cortés, R. Corchuelo, and M. Toro

Reuse of Scenario Specifications Using an Automated Relational Learner: A Lightweight Approach

H. Woo and W. Robinson

Validating Functional System Requirements with Scenarios

A. Sutcliffe and A. Gregoriades

BERLIN

Industrial Talks 3: Requirements Management

Session Chair: Nancy Mead

REDEST – 14 Best Practice SME Experiments with Innovative Requirements Gathering Techniques

S. Hardiman

Tool-Based Risk Management Made Practical

H. Doernemann

The Reference Point Method: Requirements-Based ICT Convergence Solution Development

W. Groß, T. Meyer, F. Zimmer, and C. Herrmann

Requirements Engineering: How Do You Know How Good You Are?

A. Vickers, A. Mavin, and H. May

PARIS

Research Demo Presentation

Session Chair: Steve Easterbrook

RETH: Requirements Engineering through Hypertext

H. Kaindl

xlinkit: Check, Link, Report, Repair

Anthony Finkelstein

The SeeMe editor: A Modeling Tool Supporting the Design of Socio-technical Systems

K.-U. Loser

Contextual Visualization of Graphical Requirement Models

C. Seybold & M. Glinz

The NIBA Workflow: From Textual Requirements Specification to UML-Schemata

C. Kop

REM: A Free, XML-based Requirements Management Tool

A. Durán Toro

LONDON

Thursday Technical Program, cont.

16:30 – 18:00

RE-Visions

Session Chair: Martin Feather

Early Aspects: A Model for Aspect-Oriented Requirements Engineering

A. Rashid, P. Sawyer, A. Moreira, and J. Araújo

Discussant: Anthony Finkelstein

BERLIN

Security Requirements Engineering: When Anti-requirements Hit the Fan

R. Crook, D. Ince, L. Lin, and B. Nuseibeh

Discussant: Colin Potts

Requirements Interdependencies and Stakeholders Preferences

J. Giesen and A. Völker

Discussant: Björn Regnell

Industrial Talks 4: NL and UML

Session Chair: Chris Rupp

Ambiguity and What to Do about It

B. Kovitz

PARIS

A Process Model for Distributed Development of Networked Mechatronic Components in Motor Vehicles

K. Stübbe, A. Lapp, P. Flores, J. Schirmer, D. Kraft, J. Petersen, M. Bourhaleb, and T. Bertram

Analysis beyond UML

C. Stutz, J. Siedersleben, D. Kretschmer, and W. Krug

LONDON

Research Demo Presentation (cont.)

From 16:30 – 18:00 you will have the opportunity to meet the presenters and their tools for questions and discussions in front of room LONDON.

Friday Technical Program

09:00 – 10:30

Paper Session 6: RE for Product Lines

Session Chair: *Didar Zowghi*

BERLIN

The Product Line Mapping Approach to Defining and Structuring Product Portfolios

K. Schmid

Integrating ECUs in Vehicles – Requirements Engineering in Series Development

M. Hardt, R. Mackenthun, and J. Bielefeld

Efficient and Systematic Software Evolution through Domain Analysis

I. John, D. Muthig, P. Sody, and E. Tolzmann

Experience Session 2: Requirements Selection

Session Chair: *Martin Glinz*

PARIS

Exploring the Relationship between Project Selection and Requirements Analysis: An Empirical Study of the New Millennium Program

M. Bergman and G. Mark

Using Maturity Assessments to Understand the ERP Requirements Engineering Process

M. Daneva

Converging on the Optimal Attainment of Requirements

M. Feather and T. Menzies

11:00 – 12:30

Paper Session 7: Change Management

Session Chair: *Michel Lemoine*

BERLIN

Systematic Requirements Recycling through Abstraction and Traceability

A. von Knethen, B. Paech, F. Kiedaisch, and F. Houdek

An Analysis-Revision Cycle to Evolve Requirements Specifications by Using the SCTL-MUS Methodology

J. García-Duque, J. Pazos-Arias, and B. Barragáns-Martínez

Automating Speculative Queries through Event-Based Requirements Traceability

J. Cleland-Huang, C. Chang, G. Sethi, K. Javvaji, H. Hu, and J. Xia

Industrial Talks 5: Goals and Use Cases

Session Chair: *Alistair Sutcliffe*

PARIS

Requirements Engineering with Grail/Kaos : Tell the Requirements, All the Requirements, and Nothing Else but the Requirements

R. Darimont, E. Delor, J.-L. Roussel, and A. Rifaut

Requirements Engineering – Applying Theory to Reality

S. Dusire, M. Flynn, and N. Dardenne

Friday Technical Program, cont.

14:00 – 15:30

Paper Session 8: RE Process

Session Chair: Bill Robinson

BERLIN

Extreme Programming Modified: Embrace Requirements Engineering Practices

J. Nawrocki, M. Jasinski, B. Walter, and A. Wojciechowski

Effectiveness of Elicitation Techniques in Distributed Requirements Engineering

W. Lloyd, M. Rosson, and J. Arthur

The Impact of Stakeholders' Geographical Distribution on Managing Requirements in a Multi-Site Organization

D. Damian and D. Zowghi

Experience Session 3: Application Challenges

Session Chair: Jawed Siddiqi

PARIS

Requirements Engineering in Automotive Development - Experiences and Challenges

M. Weber and J. Weisbrod

Managing Product Requirements for Medical IT Products

S. Higgins, M. de Laat, P.M.C. Gieles, and E. Geurts

Requirements Engineering in the Health Care Domain

L. Cysneiros

15:30 – 16:00

BERLIN

Closing Session

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