

Pre-Conference Workshops

The Conference features 5 pre-conference workshops. Each workshop provides a forum to discuss and develop a current theme in research and practice of RE and has its own way to invite contributions. Please visit the website www.re02.org in order to find a more detailed description and related URLs of the workshops. The themes of the workshops are:

REFSQ'02 Eighth International Workshop on Requirements Engineering: Foundation for Software Quality

– Monday & Tuesday –
organized by *Camille Salinesi & Bjørn Regnell*

REPL'02 International Workshop on Requirements Engineering for Product Lines

– Monday –
organized by *Birgit Geppert & Klaus Schmid*

RHAS'02 International Workshop on Requirements for High Assurance Systems

– Monday –
organized by *Connie Heitmeyer & Nancy R. Mead*

TCRE'02 International Workshop on Time-Constrained Requirements Engineering

– Monday –
organized by *Armin Eberlein, Sol Greenspan & Julio Leite*

Requirements Engineering für Auftraggeber/Auftragnehmer-Management

– Monday –
organized by *Barbara Paech/this workshop is held in German*

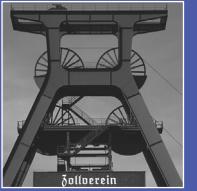
Doctoral Consortium

The Doctoral Consortium is a popular feature of the RE-Series of conferences for years now. It provides valuable constructive advice for PhD researchers who have completed a considerable part of their work but are not yet near to finish their thesis.

Details how to participate in this event are available on the website at www.re02.org.

Social Events

In order to provide informal ways to communicate and socialize various events are planned along the conference. There will be a reception on Tuesday evening at the University. The Conference Dinner will be held on Wednesday night. The place of the Dinner is carefully chosen to show that the entire region formerly known for its heavy industry has been transformed considerably.



Of course we do not deny the history on which the social and economic foundations have been built. Thus we offer an excursion to the coal mine and coal processing plant Zeche Zollverein which is now a large industrial monument and has been recently awarded the status of UNESCO World Heritage.

This tour will be offered on Wednesday after the presentations of the conference have been finished for the day. On Thursday another event will be held in a scenic pub, which brews its own beer and is also very typical for the entire region.

Registration Information

Information regarding how to register in advance for the conference and accompanying events can be found at the website (www.re02.org). A PDF document is provided there which lists all the options. After following the instructions please fax the completed form (2 pages) to the fax number given there. Early Registration ends on 15 August 2002.

Hotel Information

All bookings of hotel accommodation is done through the Tourist Office of the City of Essen. On the website (www.re02.org) a PDF Document can be found which provides information regarding hotels near the area of the conference venue. Please use this document to make your reservations through the Tourist office:

Touristikzentrale Essen
Monika Förster
Am Hauptbahnhof 2
45127 Essen
Germany
per Fax +49-(0) 201-88 72 044
e-mail foerster@touristikzentrale.essen.de

Please make all hotel reservations through the Touristikzentrale.
The deadline for booking the special RE'02 hotel rates is 15 August 2002.

Organisation Committee

General Chairs

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Jawed Siddiqi, Univ. Sheffield Hallam, UK

Programme Chairs

Eric Dubois, CRP Henri Tudor, Luxembourg
Klaus Pohl, Univ. Essen, Germany

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Didar Zowghi, UTS, Australia

Contact <http://www.re02.org>

info@re02.org

September 09–13, 2002

UNIVERSITY OF ESSEN, GERMANY



General Chair:
Sol Greenspan, USA
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In cooperation with



<http://www.re02.org>

RE'02 IEEE Joint International Requirements Engineering Conference

Successful Requirements Engineering (RE) is essential to develop high quality software which fits its purpose. Eliciting, negotiating, validating, documenting and especially continuously managing requirements for software products is a big challenge for software companies. The increasing importance of certain facets of software development like security as well as new software development paradigms like pro-active reuse based on software product families demand new solutions.

The RE'02 Conference is the venue to keep pace with the industrial experiences, state of the art reports and fresh research results in RE.

For RE'02 the two leading international RE-events – the bi-annual IEEE series of RE conferences (ICRE) and RE symposia (ISRE) – have joined forces for the 10th anniversary.

The high quality programme of RE'02 is composed of

- 3 distinguished keynote addresses by Dr. Kozaczynski, Director of Architecture and Applications at Rational Inc., Prof. Schönthaler, CEO, Promatis AG, Prof. Carroll, Virginia Tech, USA
- 51 high quality experience and research talks selected from over 240 submissions
- 10 pre-conference tutorials teaching up-to-date RE knowledge
- a doctoral consortium for exchanging and discussing emerging research ideas
- 5 RE workshops for interactive discussion of hot RE topics

THE CITY OF ESSEN, located in the so-called Ruhr area with approx. 6 millions inhabitants, is an ideal location for the RE conference. While its traditional industries – coal and steel – are almost completely shut down, the Ruhr area is transforming into a region providing ample opportunities for software companies. The Ruhr area offers a dense public transportation system. Essen, located in the middle of the most varied event and cultural regions in Europe, is an ideal base for visiting numerous tourist attractions and offers extensive shopping facilities. High-speed train connections enable convenient day trips to metropolitan areas like Berlin, Amsterdam and Hamburg.

THE UNIVERSITY OF ESSEN is one of the four large universities of the Ruhr area. Faculties in Medicine, Humanities, Engineering and Business as well as Natural Sciences offer a large number of degrees. The Computer Science and Business Computing groups provide an outstanding teaching program for degrees in Systems Engineering and Business Computing.

The Keynote Talks

"Requirements, Architectures and Risks"

by Wojtek Kozaczynski, *Rational Inc. USA*

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.

Risk Management in Challenging Business Software Projects

by Dr. Frank Schönthaler, *PROMATIS AG*

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 a significant risk reduction if Risk Management is systematically applied.

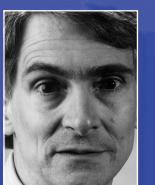


DR. FRANK SCHÖNTHALER worked in Information Systems and Business Engineering with special emphasis (PhD work) on information system development based on rapid prototyping. In 1990 he founded PROMATIS and worked as a senior consultant, trainer and project manager for PROMATIS early customer projects.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

Scenarios and Design Cognition

by John M Carroll, *Virginia Tech, USA*

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 M. 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, with applications to 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 numerous awards, for example from ACM and IFIP, and was elected to the CHI Academy.

Pre-Conference Tutorials

Just Enough Requirements Management (JERM)

– Monday Sept. 9th –
by Al Davis, *Univ. of Colorado at Colorado Springs and Omni-Vista, Inc.*

This tutorial addresses how to unburden yourself from complex requirements management.

Al Davis is professor of information systems at University of Colorado at Colorado Springs and CEO of Omni-Vista.

Security Risk Management and Requirements Engineering

– Monday Sept. 9th –
by Jonathan Moffett, *University of York, UK*

The tutorial provides the basic understanding of a computer security risk analysis process, and how this relates to the requirements and design phases of the software development life cycle.

JONATHAN MOFFETT is a Senior Lecturer in the Computer Science Dept. at York University, England. He was computer security adviser at Esso Europe Inc., and has had numerous security consultancies.

Agile Requirements Engineering

– Tuesday Sept. 10th –
by Petra Becker-Pechau, Holger Breitling, Stefan Roock, *University of Hamburg & Apcon Workplace Solutions GmbH*

XP and other agile processes promise to remove the burden of unnecessary rules, documents and workflows. This tutorial covers how to realise requirements engineering using an agile process and offers practical lessons.

PETRA BECKER-PECHAU & HOLGER BREITLING, are both research assistants at University of Hamburg and hold professional positions at APCON Workplace Solutions GmbH.

STEFAN ROOCK is a software chief architect and consultant at Apcon Workplace Solutions with focus on object oriented technologies, architectures and processes.

Reconciling Requirements, Use Cases and Object-Oriented Modeling

– Tuesday morning Sept. 10th –
by Dr. Hermann Kaindl, *Siemens AG Österreich, PSE, Austria*

This tutorial addresses how OO modelling and use cases fit with RE and related questions since too many misunderstandings still exist regarding OO processes and methods.

DR. HERMANN KAINDL is a senior consultant at Siemens AG Austria, where he has gained more than twenty years of experience in software development. He is also an adjunct professor at the Technical University of Vienna.

EasyWinWin: A Groupware-Supported Methodology For Requirements Negotiation

– Tuesday morning Sept. 10th –
by Paul Grünbacher, *Johannes Kepler Univ. Linz, Austria* and Robert O. Briggs, *University of Arizona & GroupSystem.com*

The tutorial explains the objectives and deliverables of the EasyWinWin requirements negotiation approach and offers tips and reports on pitfalls.

PAUL GRÜNBACHER is an associate professor at Johannes Kepler University Linz and a research associate of the Center for Software Engineering (University of Southern California, Los Angeles).

ROBERT O. BRIGGS is Research Coordinator at the Center for the Management of Information at the University of Arizona and Associate Professor at Technical University of Delft (The Netherlands).

Creativity, the Path to Innovative Requirements

– Tuesday afternoon Sept. 10th –
by Suzanne Robertson, *Atlantic Systems Guild and Neil Maiden, City University, London*

This tutorial highlights the importance of creativity to innovative requirements for new types of systems. It will teach you to be able to use innovative techniques to imagine, create and discover requirements.

SUZANNE ROBERTSON is a principal of the Atlantic Systems Guild. She is co-author of Mastering the Requirements Process (Addison-Wesley '99). She is editor of the Requirements column in IEEE Software magazine.

NEIL MAIDEN is a Reader and Head of the Centre for Human-Computer Interface Design at the City University's School of Informatics. He has been directing inter-disciplinary research in requirements engineering for 15 years.

Learn How to Select the "Right" Requirements Elicitation Technique

– Tuesday morning Sept. 10th –
by Ann Hickey and Al Davis *University of Colorado at Colorado Springs*

The tutorial helps to learn how to select the "right" requirements elicitation techniques and why it is important to do so.

AL DAVIS is professor of information systems at University of Colorado at Colorado Springs and CEO of Omni-Vista.

ANN HICKEY is an assistant professor of information systems at the University of Colorado at Colorado Springs and has extensive program management, systems analysis, and requirements elicitation experience.

Non-functional requirements: from elicitation to modelling

– Tuesday afternoon, Sept. 10th –
by Julio Leite, *PUC-Rio Rio de Janeiro, Brazil*

Complex systems need models that handle functional and non-functional requirements (NFR). The attendees will learn how to elicit NFR, as well as to integrate them into functional specifications such as: Use Case, Scenarios, Class, Sequence and Collaboration Diagrams.

JULIO LEITE is Associated Professor at the Departamento de Informática of PUC-Rio.

Introduction to Formal Modelling

– Tuesday afternoon, Sept. 10th –
by Steve Easterbrook, *University of Toronto, Canada*

This tutorial introduces a number of practical formal techniques for modeling and analyzing requirements and provides ways to select and apply such formalisms.

STEVE EASTERBROOK is a professor in the Dept. of Computer Science, University of Toronto, Canada, where he teaches and conducts research in Software Engineering and Requirements Engineering.

User Driven Design: Discovering the niceties, developing the necessities through effective requirements management

– Tuesday Sept. 10th –
by Don Gause, *State University of New York/Binghamton, USA*

The tutorial will demonstrate, in a highly interactive presentation, the means we have used to include critical users – from start to finish. This includes heuristics applied to enhance design visibility and user-centered decisions through informed user consent.

DONALD C. GAUSE is a Principal of Savile Row, LLC as well as a Bartle Professor in Systems Science in the Thomas J. Watson School of Engineering, SUNY/Binghamton. He has been active as a professor and