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Requirenautics Quarterly is published by the BCS Requirements Engineering Specialist Group as a service to its members. These web pages index those sections of the newsletter that are available on line. The full newsletter is only available in the printed version sent out to members. For information on how to join RESG, please see [the RESG home page](#), or contact the membership secretary, Dr. Sara Jones, S.Jones@herts.ac.uk

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RE-Soundings

Editorial

After taking over from Steve Easterbrook, there were plenty of times when I thought that this issue would never reach you. Fortunately, the worst did not happen and eventually you have the 16th issue of Requironautics in your hands. Special thanks to all those who assisted me along the way, especially Ian Alexander, whose contribution was indispensable.

Knowing that I will be inevitably compared to Steve, who has been skillfully editing RQ since 1994, makes me feel a bit uncomfortable. Nevertheless, I'll try to do my best in my new role as the editor of the RQ, and I hope that with your own contributions RQ will continue to provide a service of good quality to the requirements engineering community. Both myself and other members of the RESG committee have been discussing various ideas on how to improve the contents and the presentation of RQ. I think that it won't be long before these ideas will materialise with profound effects to the newsletter.

Enough with the editorial changes and the plans though. Let's get to what we have in this issue. Ian Alexander shares with us his personal impressions from the European Conference on Industrial Requirements Engineering, which was organised by the RESG last October in London. He also suggests going against fashion in today's requirements engineering world and gives us his personal perspective on the new book of Ian Graham on requirements engineering and rapid development. Geoff Mullery considers quality assurance regimes in his article. You can also find a number of interesting calls for papers and a calendar of events you might wish to know about. I hope you will enjoy...

Copy deadline for the next issue is 26th March 1999

George Spanoudakis,
Department of Computing,
City University

Chairman's Message

As 1998 draws to a close, so does my three-month sabbatical at the NASA IV&V Facility in West Virginia, USA. It's been fascinating to work on the requirement specifications of the International Space Station, and watching it being launched and assembled in space as its specifications evolve!

Back to reality in London, the RESG organised its second major conference - CEIRE'98 - to follow-up RE-Day last year. The meeting attracted over 80 delegates from industry and academia, who enjoyed a variety of workshops, tutorials, a tools fair and other goodies. I'd like to thank the hardworking committee who organised the event, and of course all those who attended, participated and made it so successful.

European interest in RE is as keen as ever, if the number of conferences on the topic is anything to go by. The New Year sees the RESFQ workshop in Heidelberg, RE'99 in Limerick and REP'99 in Florence. See the inside of this issue to plan your European RE travel itinerary!

With all these major meetings taking place in 1999, the RESG strategy is to hold a number of small focused meetings on specific topics of interest to the membership. We will try to be as responsive as possible to your requests, so please drop us a line to tell us of your preferred themes for meetings (and suggestions for venues if you feel particularly averse to them being held in London!).

You will notice reading this issue that George Spanoudakis has taken over from Steve Easterbrook as Editor-in-Chief of this newsletter. Steve has done a fantastic job in launching and editing RQ since the RESG was founded back in October 1994. On behalf of the entire RESG membership, I would like to thank him for his years of contribution to the group. George has a tough act to follow, but I'm sure he will be more than up to it. George has been an Associate Editor of RQ for over a year and is therefore in an ideal position to ensure a smooth transition. Steve will continue to serve on the RESG in the short term in an advisory Associate Editor's role.

I am also sad to say that Olly Gotel is also leaving the RESG after many years of sterling service. Olly has served as Publicity Officer and Industrial Liaison Officer and has excelled in both. Her input to the RESG programme of events has also been great and we will miss her contributions. Thanks Olly and good luck!

The RESG committee always welcomes members who are prepared to volunteer their time organising events, writing for this newsletter and contributing to the group's activities. Please do drop us a line if you would like to get involved. We're a friendly and informal group, and the work can be very rewarding. We would especially welcome practitioners who feel they can devote time to help us make the group attractive and relevant to other practitioners.

On behalf of the RESG committee, I would like to wish you all my warmest Season's Greetings, and my best wishes for a New Year that meets all your requirements.

Bashar Nuseibeh,
Imperial College, London

RE-Treats

Next event organised by the group.

Patterns Day: Patterns for System Requirements and Architectures

Date: 5th May, 1999

Location: City University, London.

Format: An all day event, organised by the BCS Requirements Engineering and Software Reuse Specialist groups.

Contact: Neil Maiden (City University, E-Mail: N.A.M.Maiden@city.ac.uk)

The event will be divided into two parts: (i) presentations on state-of-the-art patterns, patterns development and patterns use in upstream systems development processes such as requirements modeling and architectural design; (ii) small discussion groups to discuss, review and improve patterns of different types. The results from these discussions will feed back to the final presentation session.

Other forthcoming events organised by the group.

Requirements for E-Commerce

Date: July 1999

Location: London

Contact: Sara Jones, University of Hertfordshire (E-Mail: S.Jones@herts.ac.uk)

Managing Changing requirements

Date: 31st August 1999

Location: London

Contact: Bashar Nuseibeh, Imperial College (E-Mail: ban@doc.ic.ac.uk)

Requirements and COTS

Date: Autumn 1999

Location: York

Contact: Laurence Brooks, University of York (E-Mail: Laurence.Brooks@cs.york.ac.uk)

Dependable Distributed System Requirements

Date: February 2000

Location: London

Contact: Sara Jones, University of Hertfordshire (E-Mail: S.Jones@herts.ac.uk), Wolfgang Emmerich, University College, London (E-Mail: W.Emmerich@cs.ucl.ac.uk)

RE-News

RESUME: a survey of requirements engineering practice in European industrial organisations

RESUME is a RENOIR funded survey being carried out at the Joint Research Centre in Ispra, Italy. The main focus of RESUME is on Requirements Engineering practice in European organisations developing the products and services that are shaping the Information Society: massively deployed embedded systems and applications running on large-scale information infrastructures.

Some preliminary results are available at the RESUME web site:

<http://dsa-isis.jrc.it/SysReqs/resume/resume.html>

Also, for people interested in participating in the survey, we provide a downloadable MS-Word 6.0 document containing a questionnaire. The questionnaire can be answered by editing this document and sending it by e-mail to:

Andres.Silva@jrc.it

For further information about the survey, please, contact:

Philip.Morris@jrc.it

Andres.Silva@jrc.it

Joint Research Centre of the European Commission

TP21 Ispra(VA) I-21020 Italy

Tel: +39 332 78 92 61 - Fax: +39 332 78 95 76

Calendar

February 1999

3rd IFIP International Conference on Formal Methods for Open Object-based Distributed Systems (FMOODS'99), Florence, Italy, February 15th - 18th, 1999.

<http://www.dsi.unifi.it/fmoods/>

The First Working IFIP Conference on Software Architecture (WICSA1), San Antonio, Texas, USA, February 22-24, 1999.

<http://www.bell-labs.com/usr/dep/prof/wicsa1/>

International Conference on Process Modeling, February 22-24, Brandenburg Technical University, Cottbus, Germany.

<http://www.processmodelling.tu-cottbus.de>

March 1999

SEPG '99 - The 11th Software Engineering Process Group (SEPG) Conference, Theme: Software Process Improvement (SPI) Investments Today for a Changing Tomorrow, Hyatt Regency Atlanta, Atlanta, Georgia, USA March 8-11, 1999

<http://www.sei.cmu.edu/products/events/sepg/>

CSEET'99 - 12th Conference on Software Engineering Training and Education, Co-located with the ACM SIGCSE Symposium on Computer Science Education, New Orleans, USA, March 22-24, 1999.

<http://cs.unomaha.edu/cseet99>

RIDE-VE '99: Information Technology for Virtual Enterprises. RIDE-VE'99 is the 9th workshop in a series of annual workshops on Research Issues in Data Engineering (RIDE) held in conjunction with the IEEE CS International Conferences on Data Engineering. In 1999, RIDE focuses on Information Technology for Virtual Enterprises. Millennium Hotel, Sydney, Australia. March 23-24, 1999.

<http://www.mcc.com/ride99>

SMBPI: Systems Modeling for Business Process Improvement, University of Ulster, Coleraine Campus, Northern Ireland, 29-31 March 1999.

<http://www.infc.ulst.ac.uk/informatics/events/smbpi.html>

April 99

3rd International Workshop on Empirical Assessment and Evaluation in Software Engineering, Keele University, Staffordshire, UK, April 12-14, 1999.

<http://www.keele.ac.uk/depts/cs/events/ease99>

RE-Calls

Recent Calls for Papers

ESEC/FSE 99, Joint 7th European Software Engineering Conference (ESEC) and 7th ACM SIGSOFT International Symposium on the Foundations of Software Engineering (FSE-7), Toulouse, France, September 6-10, 1999

<http://www.iam.unibe.ch/~esec99/>

Sponsored by the ACM SIGSOFT, CEPIS (Council of European Professional Informatics Societies), and ONERA

Call for Contributions:

Technical Papers

The Programme Committee invites authors to submit either research or experience papers for publication and presentation at the conference. We encourage submissions in any field of software engineering, including, but not limited to:

- Requirements Engineering
- Software Process Models
- Software Architectures
- Software Engineering Tools and Environments
- Component-based Software Engineering
- Generic Programming and Software Reuse
- Software Metrics
- Software Information Management
- Testing and Verification
- Software Reengineering

The proceedings will be published jointly by Springer Verlag in the LNCS series and by ACM. Comprehensive information about LNCS/LNAI, including the new version of instructions for authors, can be found under the LNCS home page at:

<http://www.springer.de/comp/lncs/index.html>.

Submissions will be reviewed by the program committee for originality, significance, timeliness, soundness and quality of presentation. Research papers must clearly present an original contribution to the state-of-the-art. Theoretical papers should show how their results relate to software engineering practice. Experience papers must clearly present "lessons learned" that will be of interest and benefit to a broad audience.

Full details concerning the submission procedure as well as the call for workshops and tutorials are available on the World Wide Web at:

<http://www.iam.unibe.ch/~esec99/>

Important Dates:

Abstracts due: February 22, 1999

Papers submissions due: March 1, 1999

Authors notified: May 14, 1999

Camera-ready copy due: June 14, 1999

Conference: September 6-10, 1999

Organisation:

General Chair

Michel Lemoine,

ONERA ETLIS / DPRS,

Toulouse, France

E-Mail: lemoine@cert.fr

Program Chair

Oscar Nierstrasz,

University of Berne,

Switzerland

E-Mail: oscar@iam.unibe.ch

UML '99: 2nd International Conference on the Unified Modeling Language, Fort Collins, Colorado, USA, October 28-30, 1999

<http://www.cs.colostate.edu/UML99>

Sponsored by IEEE Computer Society Technical Committee on Complex Systems (pending). In Cooperation with ACM SIGSOFT. With the Support of OMG.

Scope:

UML '99 will bring together researchers in academia and industry who are developing processes, methods, techniques, and semantic foundations for the UML. The conference will provide a forum for discussing and evaluating promising approaches that will enhance the application of UML.

The UML '99 organizing committee invites authors to submit papers presenting original and unpublished research and experience reports on UML or related topics.

Typical areas include (but are not limited to):

- Integration of software development techniques
- Significant or useful extensions
- Metamodels and model interchange
- Formal semantics
- Business processes and modeling
- Experiences reports that contribute significant research ideas or make unconventional use of UML
- OCL and other constraint notations
- Reuse at the modeling level
- Patterns, pattern mining
- Extensions and restrictions of UML
- UML compared to other notations
- Mapping of UML to programming languages, frameworks, databases, and architectures
- Modeling software architectures with UML
- Verification with UML models
- Transformation of UML models
- Refinement and composition of UML models
- Method engineering in the large

- Management of UML projects
- Modeling of distributed systems
- UML and real-time
- Metrics and measures based on UML

Important dates:

Deadline for abstract: 5 May 1999

Deadline for submission: 15 May 1999

Notification to authors: 15 July 1999

Final version of accepted papers: 25 August 1999

Submissions:

Submit your 10-15 page manuscript electronically in Postscript or pdf using the Springer LNCS style. Details are available at the conference web page. The UML '99 proceedings will be published by Springer-Verlag in the LNCS series.

Organising Committee:

Conference chair:

Robert B. France, USA

Computer Science Department ,

Colorado State University ,

Fort Collins, CO 80523, USA

E-Mail: france@cs.colostate.edu

Program chair:

Bernhard Rumpe,

Institut fuer Informatik,

T. Universitaet Muenchen ,

80290 Muenchen, Germany

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REP 99 - 1st International Workshop on the Requirements Engineering Process: Innovative Techniques, Models, Tools to support the RE Process, Florence, Italy, September 3, 1999

<http://www.univ-paris1.fr/CRINFO/REP9>

Scope:

Experience in developing systems has shown that an inadequate understanding of system requirements is the single most important cause of user dissatisfaction and system failure. This has led to the area of Requirements Engineering.

Requirements engineering (RE) is the process of determining a complete, correct and clear specification of a future software-intensive system from the incomplete, inconsistent and ambiguous statements of need from stakeholders as diverse as end-users, managers and members of the public. Whereas conventional RE approaches focus on models and languages to express system specifications, there has been a recent shift towards a focus on requirements engineering processes (REPs). The prevalent view is that requirements emerge from a process of learning in which they are elicited, prioritized, negotiated, evaluated and documented. Requirements evolve with time. This necessitates managing requirements evolution and aligning requirements to organizational changes.

Goal:

The goal of the REP workshop is to improve our understanding of the RE process. This workshop shall provide a forum for the presentation and discussion of :

- innovative ideas for REP
- best REP practices
- industrial problem statements
- evaluation and comparison of approaches to REP

This workshop is organized with the aim to bring together researchers and practitioners from various disciplines such as Databases, Information Systems, Software Engineering, Business Process Reengineering, Quality Management and Human Computer Interfaces. The objective is to advance understanding about how techniques from various disciplines can empower the requirements engineering process in organizations. It also aims at discussing the lessons learned from large scale RE projects and investigate approaches to keep track of good and bad REP experiences .

Topics:

Topics include but are not restricted to :

- Theories and models for the REP
- Best RE practice capitalization
- Models for the REP quality assurance and improvement
- Environments for the RE process enactment and monitoring
- REP traceability
- Engineering techniques for the REP
- Co-operative and iterative learning process
- Documenting requirements and the RE process
- RE method engineering and CAME environments
- Requirement evolution management

Instructions to authors:

Full papers (max 5000 words) or position papers (2000 words) must be sent electronically (Word 95 or 97 or PS file) to REP@univ-paris1.fr. Papers will be published by IEEE in the workshop proceedings.

Important dates:

Submission : March 15, 1999

Acceptance notification : April 30, 1999

Confirmation of participation : May 15, 1999

Camera ready paper due : May 30, 1999

Organisation:

Program Chair

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Workshop - Ensuring Successful COTS Development, co-located with the 21st International Conference on Software Engineering, Los Angeles, California, USA Saturday, May 22, 1999

<http://wwwsel.iit.nrc.ca/projects/cots/icsewkshp/icsecfp.html>

Theme:

The theme of this one-day workshop is the application of research results from various areas of software engineering to the problems associated with the building, acquiring, maintaining, and managing software systems containing Commercial Off-The-Shelf (COTS) products. COTS products in this context are components that an organization acquires from a third party, with no access to the source code, and for which there are multiple customers using identical copies of the component.

Our goal for the workshop is to highlight the role of existing research, in the areas of software architecture, system design, software process, testing and verification, software reuse,

application management, security and cost estimation, in addressing some of the problems associated with building and maintaining long-lived COTS-based systems. In particular we want to investigate practical application of these results in real-life development environments.

Contributions:

Experience reports, research papers, evaluations, and surveys are invited on relevant topics. These include but are not limited to:

- Architectures for COTS integration
- Evaluation techniques for COTS candidates
- Development process changes
- Business case development and/or examples
- COTS-based system management
- Maintenance of COT based systems
- Requirements Engineering of COTS based systems
- Security Aspects of COTS based systems
- Tools to support COTS-based development

Experience reports that provide insight into the advantages and disadvantages of COTS adoption and integration are particularly welcome, as are position papers that may influence future software development processes and support tools. Position papers and experience reports will not exceed 2000 words and shall be reviewed by the organizing committee. Authors will be notified by e-mail of receipt of their document. If you have not heard from the organizers within 5 days of submission, please contact us.

Authors of papers selected for presentation will be notified on or before March 15, 1999. Attendees will be selected on the basis of their perceived contribution to the topics to be discussed. Admission to the workshop will be by invitation only. Participants will register with ICSE 99. The workshop will be limited to 30 participants not including the moderators. Preferably, at least half the participants will be practitioners with the other part being made up of researchers.

Important Dates:

Papers and Experience Reports: March 1, 1999

Acceptance notification: March 15, 1999

Formatting guidelines are available at

<http://sunset.usc.edu/icse99/pubformat/index.html>.

Organizers:

John Dean, National Research Council Canada

Patricia Oberndorf, Software Engineering Institute, Carnegie Mellon University

Mark Vigder, National Research Council Canada

EMMSAD '99 - CAISE/IFIP8.1 International Workshop on Evaluation of Modeling Methods in Systems Analysis and Design, Heidelberg, Germany, June 14-15, 1999

<http://www.ait.uni.edu/doc2/faculty/siau/conference/EMMSAD99.html>

Objectives:

EMMSAD '99 is the 4th in the series of workshops on Evaluation of Modeling Methods in Systems Analysis and Design that started in 1996. EMMSAD workshops have been very successful in bringing together researchers and practitioners in information systems, method engineering, software engineering, database, and human computer interaction that are interested in modeling methods in systems analysis and design. These workshops provide a forum for researchers and practitioners in the area to meet and exchange research ideas and results. EMMSAD'99 is an event jointly sponsored by the Conference on Advanced Information Systems Engineering (CAISE) and the International Federation for Information Processing Working Group 8.1 (IFIP8.1).

Topics:

We are interested in theoretical and/or empirical evaluations of modeling methods and methodologies related to:

- Internet/Intranet/Extranet
- Electronic Commerce
- Web-based Applications
- Web-Interface Design
- Internet Security
- Unified Modeling Language
- Method Engineering
- Metamodeling
- Information Modeling
- Software Engineering
- Business Process Re-engineering
- Object-Oriented Database
- Heterogeneous Database
- Multimedia Database
- Temporal Database

- Web Database
- Requirements Engineering
- Enterprise Modeling
- Enterprise Resource Planning
- Data/Database Modeling
- Data Warehousing
- Data Mining
- Client/Server Computing
- Decision Support and Expert Systems
- Geographical Information Systems
- Knowledge Management Systems

For the workshop, we are particularly interested in papers addressing theoretical foundations and research methodologies for evaluating modeling methods. Evaluation of modeling methods for Internet and WWW applications is strongly encouraged. Research methodologies involving case studies and experience reports are also welcome.

Important Dates:

Intention to Submit (optional): February 15, 1999

Paper Submission Deadline: March 1, 1999

Notification of Acceptance: April 15, 1999

Camera Ready Copy Due: May 10, 1999

Organizers:

Keng Siau,

University of Nebraska-Lincoln, USA

Yair Wand,

University of British Columbia, Canada

Annals of Software Engineering, Special Volume 10 on Software Maintenance, Call for papers

<http://manta.cs.vt.edu/ase/vol10call.html>

This special volume of Annals of Software Engineering will focus on best software maintenance practices, methodologies, and empirical results for a variety of systems, designs, and architectures. Original papers are solicited that present research results, innovative case studies, actual project experiences, state-of-the-art surveys, and tutorials.

Topics of particular interest include but are not limited to:

- Software migration and conversion
- Re-engineering and restructuring of legacy software
- Lessons learned from Y2K conversion projects
- Component-based software maintenance
- Empirical studies in software maintenance
- Software maintenance metrics
- Software maintenance testing, verification and validation
- Software documentation and design recovery
- Program comprehension
- Formal methods in maintenance
- Software maintenance tools and enabling technologies
- Software maintenance education
- Legal aspects of re-engineering of software

Annals of Software Engineering imposes virtually no length limitation on the submitted papers. A paper's length is judged with respect to the quality of its contents. Submitted papers must not have been previously published or be currently under consideration for publication elsewhere. All papers will be rigorously refereed. Five (5) copies of the complete manuscript should be submitted to one of the Co-Editors by March 31, 1999.

Co-editors:

Dr Cristina Cifuentes and Professor Paul Bailes

Centre for Software Maintenance, Department of Computer Science & Electrical Engineering, The University of Queensland, Brisbane, Qld 4072 Australia,

E-Mail: {cristina,paul}@csee.uq.edu.au.

ACM Transactions on Software Engineering and Methodology, Special issue on Software Engineering and Security, call for papers

<http://www.research.att.com/~stubblebine/tosem.html>

ACM TOSEM will bring out a special issue dedicated to the intersection of concerns between security and software engineering. We solicit submissions that address the following issues and sub-areas:

- How can security be used to address problems in distributed software development? How does one build trust and control in the distributed enactment of software processes while protecting intellectual property? Trust in software process; Trust in software tools; Trusted (distributed) configuration management.
- Can conventional, standard software engineering techniques be used to achieve verifiably higher levels of security in heterogeneous, distributed systems? What new software engineering techniques are needed?
- Formal verified implementations of security protocols; Traceability of correctness into implementation; Testing of security protocols; Specification of Secure Systems; Domain specific languages for Secure systems; Static/Dynamic Analysis for System Security; Security Testing (property-based, coverage-based, etc); Configuring trusted systems; Evolving Legacy Systems for greater security.
- Intellectual Property Protection: can security techniques be used to protect the valuable investments in software? Reverse engineering counter measures; Software watermarking and copy protection; Combination Software and Hardware-based techniques.

Dates:

Papers Due: April 1, 1999

Notification of Acceptance: October 1, 1999

Guest Editors:

Premkumar Devanbu, UC Davis

Stuart Stubblebine, AT&T Labs--Research

REFSQ '99 - Fifth International Workshop on Requirements Engineering: Foundation for Software Quality, June 14-18 1999, Heidelberg, Germany (preceding the CAiSE '99 conference)

<http://www-i5.informatik.rwth-aachen.de/conf/caise99/cfp-rfsq99.html>

Purpose:

Achieving high quality means to realise the needs of users and customers. These needs are elicited, negotiated, documented and validated during requirements engineering (RE). RE is therefore the most crucial phase of software development. The goals of RE are:

- To produce a traceable requirements specification that is as consistent and complete as possible;
- To facilitate a cooperative and iterative learning process;
- To document both the specification and the RE process using appropriate representation formats;
- To establish a sufficient common understanding among the stakeholders involved.

Conventional RE methods usually support only parts of this process or help stating only specific kinds of requirements.

Goal:

The goal of the REFSQ workshop series is to improve the understanding of the relations between requirements engineering and software quality. More precisely, REFSQ aims at having intensive discussion provoked by brief presentations about:

- solutions to known RE problems and shortcomings,
- innovative research ideas possibly initiating new research directions,
- industrial problem statements, and
- generalisations from individual industrial experiences.

At the previous REFSQ workshops - all arranged in connection with the CAiSE conference series researchers and practitioners from various disciplines presented approaches to improve the definition and implementation of quality requirements. The success of the earlier REFSQ's has encouraged us to provide a follow-up workshop - REFSQ'99 - as a stage for the discussion of quality-related problems in RE as they have developed over the last year. In particular, we like to encourage people from the requirements engineering, software engineering and information systems fields to present their approaches to higher software quality and to discuss how requirements engineering can contribute to it.

Themes:

In accordance with the special theme for CAiSE'99 - Component-Based Approaches - and following-up on issues raised at last year's workshop, REFSQ'99 specifically invites submissions addressing RE for Commercial Off-The-Shelf (COTS) systems.

Relevant topics include, but are not limited to:

- classification of COTS requirements into domain-specific and standard ones,
- analysing the impact of requirements changes,
- support for change management,
- prioritising requirements for COTS,

- bundling requirements into COTS releases,
- configuration management for requirements,
- reference architectures for COTS,
- procurement of COTS.

REFSQ'99 also invites contributions from industry and research addressing the following themes:

1. Embedding RE in the organisational context

Relevant topics include: smoothly extending existing methods, developing techniques that are specific for individual domains and applications, assessing the helpfulness of formal representations, change management, organisational learning, business processes, etc.

2. Managing the quality of RE processes

Relevant topics include: resource estimation, establishing and using traceability, process modelling and monitoring, RE project organisation, quality models of RE and the RE process, environments for supporting RE processes, CAME environments, etc.

3. Quality assurance and RE

Relevant topics include: models for quality assurance, considering quality assurance in RE, software quality and RE, specification of software quality requirements, measuring the quality of requirements, etc. Note that the themes and the lists of topics for each theme are not intended to be exhaustive.

Papers:

Papers of three types can be submitted to the workshop:

Industrial problem statements - People from industry are especially encouraged to submit problem statements. Industrial problem statements should focus on perceived mis-matches between current RE practice and research and/or on emerging areas of concern for RE practitioners. An industrial problem statement may be about one page long, but more comprehensive statements will also be considered.

Position papers - Position papers should state the author's research position with respect to view of current RE practice, relations between current RE practice and RE research, and/or research methodology and ontological assumptions. Papers should emphasise which topics that are of particular concern to the RE community at present, and why. The maximum length of a position paper is 2000 words.

Full papers - Full papers should emphasize what is new and significant about the chosen approach and adequately compare it with similar work. Integration of the contributions with mainstream or other research approaches to SE and RE are especially encouraged. The maximum length of a full paper is 6000 words.

Instructions for authors:

Send your full paper (max. 6000 words), position paper (max. 2000 words) or industrial problem statement (approx. 1 page) by e-mail or via normal post before March 1st (arrival date) to:

pohl@informatik.rwth-aachen.de

Klaus Pohl

RWTH Aachen

Informatik V

D-52074 Aachen

Email submission is encouraged, as the accepted papers will later be distributed to the other participants electronically.

Papers will be published in the REFSQ'99 workshop proceedings, and the papers will be made available electronically for the participants before the workshop. We also intend to provide paper preprints at the beginning of the workshop, but this is dependent on the funding we receive.

Workshop Format:

The workshop will be an interactive forum. Attendance will be limited to 30 people and all participants must have a paper accepted for the workshop. The workshop language is English. The workshop will be organized in conjunction with the CAISE'99 conference, and some earlier CAISE conferences have required workshop participants to also attend the main conference. The accepted papers will be made available electronically to all workshop participants before the workshop, so that presentations can be kept short. Each full-paper presentation will be summarized and commented on by all the other authors of full papers in the same session, acting as discussants. The discussants will be followed by a plenary discussion of the paper. In addition, there will be a plenary discussion at the end of each session. At the end of the workshop there will be a general discussion, possibly including a brainstorming session about areas or topics of RE research that the participants perceive as important.

Important Dates:

Submission deadline: March 1, 1999

Acceptance notification: April 15, 1999

Confirmation of participation: April 30, 1999

Camera ready paper due: May 15, 1999

Program Chairs:

Andreas Opdahl, Univ. of Bergen, Norway

Klaus Pohl, RWTH Aachen, Germany

ISRE '99 - Doctoral Symposium, 7th and 8th of June, Limerick, Ireland

<http://www.ul.ie/~isre99/ISRE-docsym-end.html>

The ISRE '99 Doctoral Symposium is a two day workshop to be held June 7th and 8th, prior to the International Symposium on Requirements Engineering (ISRE).

Goal:

The goal of the Doctoral Symposium is to bring together PhD students working on foundations, techniques, tools and applications to requirements engineering and give them the opportunity to present and discuss their research in a constructive and international atmosphere. The symposiums aims:

- to provide a setting for mutual feedback on participants' current research and guidance on future research directions
- to develop a supportive community of scholars and a spirit of collaborative research

The workshop and ISRE will also provide an opportunity for student participants to interact with established researchers and others in the wider requirements engineering community.

Who should submit?

Student participants should consider participating in the doctoral workshop at least six months before completion of their dissertation, but after having settled on a research area or thesis topic.

Organisation:

Michael Goedicke, University of Essen, Germany, Workshop Co-Chair

Klaus Pohl, RWTH Aachen, Germany, Workshop Co-Chair

Important Dates:

Deadline for submissions: March 15, 1999

Notification of acceptance: April 15, 1999

Camera-ready copy due: April 28, 1999

ISRE '99: June 7-11, 1999

Financial Support:

The activity is a RENOIR sponsored event. Students belonging to a RENOIR node and attending the doctoral symposium can apply for travel support by RENOIR.

Submissions:

To apply as a student participant in the Doctoral Symposium, prepare a submission package consisting of three parts listed below. Each of these parts must be submitted electronically by the listed deadlines.

General Information:

Name of student, Univ. and department, full mailing address, telephone, fax, email address.

Name of thesis advisor, Univ. and department, full mailing address, telephone, fax, email address.

Brief description of research topic (25 words or less)

2 to 5 key words.

Research Abstract:

Submit an abstract describing your dissertation research. Your abstract should be at least 3 pages, but not more than 5 pages long, when prepared according to the format guidelines below. The research abstract should clearly indicate:

