



Call for Contributions

In 2013, the IEEE International Requirements Engineering (RE) conference will be held for the **21st time**. To mark this coming of age, we seek to investigate whether the field has made its transition from adolescence into adulthood, and we hope to guide its onward journey. The special theme for RE'13 is **RE@21: Keeping Requirements on Track**.

Requirements engineering (RE) encompasses all the interdisciplinary activities involved in determining, documenting, and maintaining an agreed set of requirements for a system, and for tracing these through to implementation. A specific concern is the development of practical techniques, methods, and tools to support these activities. RE'13 invites submissions that address **any facet of the requirements engineering process**, from elicitation to validation, from formal to informal, from large to small, from traditional to agile, and across people-centric, business-centric, and system-centric viewpoints.

Topics of interest include, but are not limited to:

- Requirements engineering process definition, measurement, and improvement
- Stakeholder identification, engagement, and management
- Requirements elicitation, analysis, documentation, validation, and verification
- Requirements negotiation, prioritization, and domain ontology construction
- Requirements specification languages and model-driven approaches
- Modeling of requirements, goals, and wider system concerns
- Requirements management and traceability
- Evolution of requirements over time, product families, and variability
- Requirements across the entire system lifecycle
- Domain-specific problems, experiences, and solutions
- Requirements in market-driven, service-oriented, and product line environments
- Requirements for highly complex systems on a global scale
- Requirements for large-scale procurement contracts
- Social, cultural, global, personal, and cognitive factors in requirements engineering
- Industry and research collaboration, learning from practice, and technology transfer
- Requirements engineering education and training
- Tool support for requirements engineering

Paper Submission Categories

RE'13 invites paper submissions in 3 categories. Papers in all categories must describe original work that has not been submitted to or presented at other forums. Submissions must be written in English and formatted according to the IEEE Conference Publishing Services formatting instructions (<http://www.computer.org/portal/web/cscps/formatting>). Papers that

exceed the length specification of their submission category or are not formatted correctly will be rejected without review. All accepted papers will be published as IEEE CS Press Conference Proceedings.

1. Research Papers

Research papers are divided into 3 sub-categories:

- i. **Technical Solution Papers** present solutions for requirements-related problems that are novel or significantly improve upon existing solutions. **Must not exceed 10 pages (including references).**
- ii. **Scientific Evaluation Papers** evaluate existing problem situations or validate/refute proposed solutions through scientific means, such as empirical studies, experiments, case studies, simulations, formal analyses, or mathematical proofs. Scientific reflection on problems and practices in industry also falls into this category. **Must not exceed 10 pages (including references).**
- iii. **Survey and Roadmap Papers** explore the history, successes, and challenges for various requirements related practices and research agendas. Pure survey papers are expected to provide a critical and systematic review that will advance research in the area surveyed. While a survey paper is not expected to introduce a novel technical solution in the surveyed area, it is expected to provide a novel contribution in the way in which it organizes and analyzes the material. A roadmap paper builds upon survey work to provide a grounded vision for future research. **Must not exceed 10 pages (excluding references).**

See pages 4 to 5 for more details of Research Paper submissions.

2. Industry Papers

Industry papers are divided into 3 sub-categories:

- i. **Industry Practice Papers** report on the application of requirements engineering techniques, methods, and tools on concrete projects within real-world settings. These papers tell a story and relate experiences of success or failure, experiences from which both researchers and practitioners can draw valuable lessons. The focus is on what was undertaken, in what context, and on the lessons learned. **Must not exceed 6 pages (including references).**
- ii. **Industry Challenge Papers** pose problems or challenges encountered in requirements engineering practice in particular domains, projects, or settings; problems and challenges that are in need of attention by researchers, practitioners, and tool vendors. **Must not exceed 6 pages (including references).**
- iii. **Applied Research Papers** report on research pilot studies undertaken within an industry setting. These papers describe preliminary efforts to transfer new research results into industry practice, conducted by the practitioners themselves, academic partners, or a mixed team. **Must not exceed 6 pages (including references).**

See pages 6 to 7 for more details of Industry Paper submissions.

3. RE@21 Papers

The concept of RE@21 is to gather a collection of shorter papers that specifically summarize the contribution of the **RE conference series** to the development and evolution of the field of requirements engineering, and to act as a baseline as the field moves forward.

RE@21 Papers analyze trends in requirements engineering research and practice based upon 20 years of the RE conference. Papers may examine themes that have come and gone, report on problems that have been solved or still remain, or investigate industrial practices that indicate technology transfer (or not). Papers may focus in depth on a particular topic (for example stakeholder analysis, prioritization, or traceability), a specific approach (such as i^* , ethnography, or formal specification languages), an individual concern (for instance safety, trust, or transparency), or take a more birds-eye view of the entire field. Papers may also consider the impact of the various RE workshops and tutorials over the years. Research and industry perspectives, as well as perspectives that bridge the research/industry divide, are all very welcome. **Must not exceed 6 pages (excluding references).**

See pages 8 to 9 for more details of RE@21 Paper submissions.

Need Help?

If you have never previously published at a major international conference and would like some help with planning your submission, please check out *Help with Submission?* (http://www.cin.ufpe.br/~re2013/pages/main.php?id=page_helpwithsubmission) RE'13 has 3 leading RE experts willing to guide YOU. If the paper you have planned does not fit neatly into any of the above categories, please contact the Program Chair (olly@gotel.net) or Industry Chair (alastair.mavin@rolls-royce.com) for advice. We encourage creative and innovative contributions, and we will be happy to discuss your submission.

Wait, There's More!

In addition to the call for conference papers, please check out the calls for RE'13 workshop proposals, tutorials, panels and debates, posters and demos, the doctoral symposium, and student volunteers. New to RE'13 will be 'RE Interactive' – your opportunity to participate in interactive sessions, announce your late-breaking and emerging results, or simply voice your opinions. The special theme of **RE@21: Keeping Requirements on Track** extends to all conference contributions. If you have any questions about these additional submissions, please contact the corresponding chairs directly.

Key Submission Dates in 2013

- **Jan 14:** Workshop Proposals
- **Jan 21:** Research, Industry, & RE@21 Abstracts
- **Jan 28:** Research, Industry, & RE@21 Papers
- **Feb 1:** Notice of Intent to Submit (Tutorials)
- **Feb 25:** Tutorial Proposals
- **Mar 4:** Panel & Debate Proposals
- **Apr 3:** Doctoral Symposium Submissions
- **Apr 8:** Poster & Demo Submissions
- **RE Interactive:** Always open to suggestions!

**All deadlines are 23:59 Pago Pago, American Samoa time*

Call for Research Papers

Requirements engineering (RE) encompasses all the interdisciplinary activities involved in determining, documenting, and maintaining an agreed set of requirements for a system, and for tracing these through to implementation. A specific concern is the development of practical techniques, methods, and tools to support these activities. The 21st IEEE International Requirements Engineering Conference (RE'13) invites **Research Paper submissions** that address **any facet of the requirements engineering process**, from elicitation to validation, from formal to informal, from large to small, from traditional to agile, and across people-centric, business-centric, and system-centric viewpoints.

Topics of interest include, but are not limited to:

- Requirements engineering process definition, measurement, and improvement
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Research Paper Categories

Research papers are divided into 3 sub-categories:

i. **Technical Solution Papers** present solutions for requirements-related problems that are novel or significantly improve upon existing solutions.

- **Evaluation criteria:** The proposed solution technique or its application to this kind of problem must be novel and sound. The author(s) must provide a preliminary validation of the proposed solution, for example, a proof-of-concept and/or sound argument that the solution technique will work and that it will scale to real-world problems. Results must be stated clearly so that the author(s) or others can further validate them in later research. A technical solution paper should also be clear about its contributions with respect to related work by others and to previous work by the author(s). All technical solution papers must include at least one paragraph to report how industry-ready the material is.
- **Length:** Technical solution papers **must not exceed 10 pages (including references)**.

ii. **Scientific Evaluation Papers** evaluate existing problem situations or validate/refute proposed solutions through scientific means, such as empirical studies, experiments, case studies, simulations, formal analyses, or mathematical proofs. Scientific reflection on problems and practices in industry also falls into this category.

- **Evaluation criteria:** The topic of the evaluation presented in the paper, as well as its causal or logical properties, must be clearly stated. The evaluation method or analysis approach must be sound and appropriate. The research

must be novel or, otherwise, the results must constitute a significant increase of knowledge. The results must be relevant and/or (statistically) significant. Furthermore, the research should be situated in the context of related work by others and previous work by the author(s). All scientific evaluation papers must include at least one paragraph to report how industry-ready the material is.

- **Length:** Scientific evaluation papers **must not exceed 10 pages (including references)**.

iii. **Survey and Roadmap Papers** explore the history, successes, and challenges for various requirements related practices and research agendas. Pure survey papers are expected to provide a critical and systematic review that will advance research in the area surveyed. While a survey paper is not expected to introduce a novel technical solution in the surveyed area, it is expected to provide a novel contribution in the way in which it organizes and analyzes the material. A roadmap paper builds upon survey work to provide a grounded vision for future research.

- **Evaluation criteria:** Survey and roadmap papers should be revealing and thought provoking, thus providing new insight for the reader. These papers will be evaluated based upon their research methodology, in addition to their content. Papers that only sketch an idea or propose research on a topic without thorough grounding will be rejected.
- **Length:** Survey and roadmap papers tend to require extensive references, so they **must not exceed 10 pages excluding references** (i.e., the main body of the paper must not exceed 10 pages, but the references are not included in this page count).

Submission Instructions

Papers must describe original work that has not been submitted to or presented at other forums. Submissions must be written in English and formatted according to the IEEE Conference Publishing Services formatting instructions (<http://www.computer.org/portal/web/cscps/formatting>). Papers that exceed the length specification of their submission category or are not formatted correctly will be rejected without review. All accepted papers will be published as IEEE CS Press Conference Proceedings. Acceptance of a paper implies that one of the authors register to the conference to present the submission; failure to do so by the early registration date will result in the paper being withdrawn from the conference proceedings.

Research Paper submission page: <http://cyberchairpro.borbala.net/repapers/submit/>

Important Dates

- Abstracts: January 21st, 2013
- Full paper submissions: January 28th, 2013
- Notification: March 22nd, 2013
- Camera-ready: April 15th, 2013

**All deadlines are 23:59 Pago Pago, American Samoa time*

Need Help?

If you have never previously published at a major international conference and would like some help with planning your Research Paper submission, please consider the guidance and support offered by the **RE'13 Research Paper Mentor, Donald Gause** (http://www.cin.ufpe.br/~re2013/pages/main.php?id=page_helpwithsubmission).

Contact

If the paper you have planned does not fit neatly into any of the above categories, or you have any other question relating to your Research Paper submission, please contact the Program Chair (olly@gotel.net) for advice.

Call for Industry Papers

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Industry Paper Categories

Industry papers are divided into 3 sub-categories:

i. **Industry Practice Papers** report on the application of requirements engineering techniques, methods, and tools on concrete projects within real-world settings. These papers tell a story and relate experiences of success or failure, experiences from which both researchers and practitioners can draw valuable lessons. The focus is on what was undertaken, in what context, and on the lessons learned.

- **Evaluation criteria:** The practice must be clearly described and its context must be given. The paper must be easy to follow, allowing practitioners to draw conclusions for their own practice. The lessons learned should be justified by quantitative or qualitative evidence. Industry practice papers will be evaluated for their contribution to a body of knowledge for requirements engineering professional practice, along with the significance of the insights presented.
- **Length:** Industry practice papers **must not exceed 6 pages (including references)**.

ii. **Industry Challenge Papers** pose problems or challenges encountered in requirements engineering practice in particular domains, projects, or settings; problems and challenges that are in need of attention by researchers, practitioners, and tool vendors.

- **Evaluation criteria:** The challenge and the problem context must be clearly described. Submissions must indicate the applicability of the challenge; is it a generic issue or something applicable only in certain contexts? For the latter, the scope of the challenge should be clearly defined. The applicability must be justified by a sound reasoned

argument, ideally supported by some evidence. Industry challenge papers must explicitly set out the research that the authors believe is required to address the stated challenge.

- **Length:** Industry challenge papers **must not exceed 6 pages (including references)**.

iii. **Applied Research Papers** report on research pilot studies undertaken within an industry setting. These papers describe preliminary efforts to transfer new research results into industry practice, conducted by the practitioners themselves, academic partners, or a mixed team.

- **Evaluation criteria:** The applicability of the research under investigation must be well motivated and the conduct of the pilot study described thoroughly. The findings should be articulated clearly, along with any recommendations or proposed future steps to adopt the research more widely (or to cancel the effort). Other practitioners should be able to follow easily and to replicate the pilot study if appropriate to their context.
- **Length:** Applied research papers **must not exceed 6 pages (including references)**.

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Papers must describe original work that has not been submitted to or presented at other forums. Submissions must be written in English and formatted according to the IEEE Conference Publishing Services formatting instructions (<http://www.computer.org/portal/web/cscps/formatting>). Papers that exceed the length specification of their submission category or are not formatted correctly will be rejected without review. All accepted papers will be published as IEEE CS Press Conference Proceedings. Acceptance of a paper implies that one of the authors register to the conference to present the submission; failure to do so by the early registration date will result in the paper being withdrawn from the conference proceedings.

Industry Paper submission page: <http://cyberchairpro.borbala.net/reindustrypapers/submit/>

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Contact

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Call for RE@21 Papers

“Nature gives you the face you have at twenty; it is up to you to merit the face you have at fifty.” -- Coco Chanel

In 2013, the IEEE International Requirements Engineering (RE) conference will be held for the 21st time. To mark this coming of age, we seek to investigate whether the field has made its transition from adolescence into adulthood, and we hope to guide its onward journey. To mark this occasion, RE'13 invites submissions in an **additional** and **special category** of papers that explicitly addresses the theme of **RE@21: Keeping Requirements on Track**.

RE@21: Keeping Requirements on Track

The concept of RE@21 is to gather a collection of shorter papers that specifically summarize the contribution of the RE conference series to the development and evolution of the field of requirements engineering, and to act as a baseline as the field moves forward. In the spirit of traceability, this is from the initial objectives and publications of the pioneering RE'93 and ICRE'94 conferences, up until the most recent RE'12 conference. Papers may also consider the earlier origins of the field, the context and motivation that led to the conference, and the impact of the various RE workshops and tutorials over the years.

Research and industry perspectives, as well as perspectives that bridge the research/industry divide, are all very welcome. Whether you have attended every single RE conference or are looking in for the first time, please considering reviewing elements of the past and contributing to a productive future. We encourage creative and innovative contributions, and we will be happy to discuss your submission.

“The man who views the world at fifty the same as he did at twenty has wasted thirty years of his life.” -- Muhammad Ali

RE@21 Paper Category

RE@21 Papers analyze trends in requirements engineering research and practice based upon 20 years of the RE conference. Papers may examine themes that have come and gone, report on problems that have been solved or still remain, or investigate industrial practices that indicate technology transfer (or not). Papers may focus in depth on a particular topic (for example stakeholder analysis, prioritization, or traceability), a specific approach (such as i*, ethnography, or formal specification languages), an individual concern (for instance safety, trust, or transparency), or take a more birds-eye view of the entire field.

Evaluation criteria: RE@21 papers are distinguished from regular survey and roadmap research papers in terms of their scope and length. All survey and analysis work for RE@21 papers should be (primarily) based upon the RE conference and workshop publications. Papers that use visual means to present their findings are highly encouraged. All papers should conclude with an element of well-reasoned speculation about emerging challenges and required directions, for both the RE conference series and the broader field, based upon their findings.

Length: To permit a thorough review of the past RE conference material, **RE@21 papers must not exceed 6 pages excluding references** (i.e., the main body of the paper must not exceed 6 pages, but the references are not included in this page count).

Useful Resources

- The RE conference series: http://www.cin.ufpe.br/~re2013/pages/main.php?id=page_REconferenceseries
- Home Page of the International Requirements Engineering Conference: <http://requirements-engineering.org/>
- Most of the prior RE conference and workshop publications can be accessed from the IEEE Digital Library (<http://ieeexplore.ieee.org/xpl/conhome.jsp?punumber=1000630>).
- B. Nuseibeh and S. Easterbrook, Requirements Engineering: A Roadmap (<http://dl.acm.org/citation.cfm?id=336523>), Proceedings of the Conference on The Future of Software Engineering (2000), pp. 35-46.

International Conference on Software Engineering (ICSE-2000), 4-11 June 2000, Limerick, Ireland, ACM Press, 2000. (It is over a decade since this publication: Have RE conference publications addressed these challenges? Do old challenges remain? Have new challenges emerged?)

Submission Instructions

Papers must describe original work that has not been submitted to or presented at other forums. Submissions must be written in English and formatted according to the IEEE Conference Publishing Services formatting instructions (<http://www.computer.org/portal/web/cscps/formatting>). Papers that exceed the length specification of their submission category or are not formatted correctly will be rejected without review. All accepted papers will be published as IEEE CS Press Conference Proceedings. Acceptance of a paper implies that one of the authors register to the conference to present the submission; failure to do so by the early registration date will result in the paper being withdrawn from the conference proceedings.

Research Paper submission page: <http://cyberchairpro.borbala.net/repapers/submit/>

(RE@21 Papers will be handled as a special research paper category)

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