

BECKERS, K., FAILY, S., LEE, S.-W. and MEAD, N. (eds.) 2014. *Proceedings of the 1st IEEE international workshop on evolving security and privacy requirements engineering (ESPRE 2014), co-located with the 22nd IEEE international requirements engineering conference (RE 2014), 25 August 2014, Karlskrona, Sweden*. Piscataway: IEEE [online].  
Available from: <https://ieeexplore.ieee.org/xpl/conhome/6883269/proceeding>

# Proceedings of the 1st IEEE international workshop on evolving security and privacy requirements engineering (ESPRE 2014).

BECKERS, K., FAILY, S., LEE, S.-W. and MEAD, N. (eds.)

2014

© 2014 IEEE. Personal use of this material is permitted. Permission from IEEE must be obtained for all other uses, in any current or future media, including reprinting/republishing this material for advertising or promotional purposes, creating new collective works, for resale or redistribution to servers or lists, or reuse of any copyrighted component of this work in other works.

# Proceedings of the 1st IEEE international workshop on evolving security and privacy requirements engineering (ESPRE 2014)

This file contains a list of papers published in these proceedings, with links to access them on IEEE Xplore. It also includes the text from the proceedings preface, titled "Message from the Chairs".

## List of Papers

**Preface** (*Beckers, Faily, Lee and Mead*) - [10.1109/ESPRE.2014.6890519](https://doi.org/10.1109/ESPRE.2014.6890519)

**Semiautomatic Security Requirements Engineering and Evolution using Decision Documentation, Heuristics and User Monitoring** (*Hesse, Gärtner, Roehm, Paech, Schneider and Bruegge*) - [10.1109/ESPRE.2014.6890520](https://doi.org/10.1109/ESPRE.2014.6890520)

**Argumentation-Based Security Requirements Elicitation: the Next Round** (*Ionita, Bullee and Wieringa*) - [10.1109/ESPRE.2014.6890521](https://doi.org/10.1109/ESPRE.2014.6890521)

**Towards a Framework to Measure Security Expertise in Requirements Analysis** (*Hibshi, Breaux, Riaz and Williams*) - [10.1109/ESPRE.2014.6890522](https://doi.org/10.1109/ESPRE.2014.6890522)

**Engineering Privacy Requirements: Valuable Lessons from Another Realm** (*Martin, del Alamo and Yelmo*) - [10.1109/ESPRE.2014.6890523](https://doi.org/10.1109/ESPRE.2014.6890523)

**L-SQUARE: Preliminary Extension of the SQUARE Methodology to Address Legal Compliance** (*Alva and Young*) - [10.1109/ESPRE.2014.6890524](https://doi.org/10.1109/ESPRE.2014.6890524)

**Supporting Evolving Security Models for an Agile Security Evaluation** (*Raschke, Zilli, Baumgartner, Loinig, Steger and Kreiner*) - [10.1109/ESPRE.2014.6890525](https://doi.org/10.1109/ESPRE.2014.6890525)

**Using Malware Analysis to Improve Security Requirements on Future Systems** (*Mead and Andre Morales*) - [10.1109/ESPRE.2014.6890526](https://doi.org/10.1109/ESPRE.2014.6890526)

**Pattern-Based and ISO 27001 Compliant Risk Analysis for Cloud Systems** (*Alebrahim, Hatebur and Goeke*) - [10.1109/ESPRE.2014.6890527](https://doi.org/10.1109/ESPRE.2014.6890527)

# Preface / Message from the Chairs

Welcome to the Evolving Security and Privacy Requirements Engineering (ESPRE) Workshop in Karlskrona, Sweden on the 25th of August 2014, co-located with the RE 2014 conference. The main focus of ESPRE is to bring together practitioners and researchers interested in security and privacy requirements. ESPRE probes the interfaces between requirements engineering and security & privacy, and takes the first step in evolving security and privacy requirements engineering to meet a range of needs of stakeholders ranging from business analysts and security engineers to technology entrepreneurs and privacy advocates.

ESPRE's goal is to advance the scope of current research to consider novel approaches to the elicitation, analysis, and refinement of security and privacy requirements. In particular, ESPRE fosters new visions and novel applications of requirements engineering; leveraging expertise; establishing security standards; and fusing security design, implementation, and validation stages into requirements engineering. Interdisciplinary work is encouraged to investigate possibilities for aligning language and methodologies of other disciplines (e.g., legal analysis or health care procedures) with requirements engineering.

The workshop begins with a keynote address by Professor Angela Sasse. The keynote, entitled “They're Requirements, Jim, But Not as We Know Them”, provides a retrospective of managing usability and security requirements during the development process over the last 15 years. The workshop continues with three more sessions. The “Leveraging Expertise” session raises issues related to the empirical definition of security expertise and argumentation-based security requirements analysis. Our “Privacy and Legal by Design” session reveals existing privacy requirements engineering efforts and combines legal compliance support with security requirements engineering. The final session, concerning the evolution of security requirements engineering, presents methodologies for supporting and improving security standards using requirements engineering and proposes combining malware analysis with security requirements engineering. The workshop concludes with a discussion of the directions that security and privacy requirements engineering might take.

We are grateful to the programme committee for their hard work providing insightful and thoughtful feedback to all of the papers submitted. Each paper was assigned three (and often four) reviewers that judged the quality of the work and its ability to raise interesting debate during the workshop.

Although the first workshop of its kind, ESPRE builds on the success of recent workshops in security requirements engineering and secure software engineering, in particular the Security and Privacy Requirements Engineering (SPREE) Workshop in 2011, the International Workshop for Software Engineering

for Secure Systems (SESS) series, and the Requirements for High Assurance Systems (RHAS) workshop series. Our workshop organisation committee draws from the expertise associated with these workshops.

*Kristian Beckers, Shamal Faily, Nancy Mead and Seok-Won Lee* - Organisers of the ESPRE Workshop

*Travis Breaux and Eric Knauss* - RE 2014 Workshop Co-Chairs