GraMSec 2017 – CFP
The Fourth International Workshop on Graphical Models for Security

Santa Barbara, CA, USA – August 21, 2017
`http://gramsec.uni.lu`
Co-located with CSF 2017
LNCS proceedings confirmed
Deadline extended until Sunday, May 28

SCOPE

Graphical security models provide an intuitive but systematic approach to analyze security weaknesses of systems and to evaluate potential protection measures. Cyber security researchers, as well as security professionals from industry and government, have proposed various graphical security modeling schemes. Such models are used to capture different security facets (digital, physical, and social) and address a range of challenges including vulnerability assessment, risk analysis, defense analysis, automated defensing, secure services composition, policy validation and verification. The objective of the GraMSec workshop is to contribute to the development of well-founded graphical security models, efficient algorithms for their analysis, as well as methodologies for their practical usage.

TOPICS

The workshop seeks submissions from academia, industry, and government presenting novel research on all theoretical and practical aspects of graphical models for security. The topics of the workshop include, but are not limited to:

- Graphical models for threat modeling and analysis
- Graphical models for risk analysis and management
- Graphical models for requirements analysis and management
- Textual and graphical representation for system, organizational, and business security
- Visual security modeling and analysis of socio-technical and cyber-physical systems
- Graphical security modeling for cyber situational awareness
- Graphical models supporting the security by design paradigm
- Methods for quantitative and qualitative analysis of graphical security models
- Formal semantics and verification of graphical security models
- Methods for (semi-)automatic generation of graphical security models
- Enhancement and/or optimization of existing graphical security models
- Scalable evaluation of graphical security models
- Evaluation algorithms for graphical security models
- Dynamic update of graphical security models
- Game theoretical approaches to graphical security modeling
- Attack trees, attack graphs and their variants
- Stochastic Petri nets, Markov chains, and Bayesian networks for security
- UML-based models and other graphical modeling approaches for security
- Software tools for graphical security modeling and analysis
- Case studies and experience reports on the use of graphical security modeling paradigm

PAPER SUBMISSION

We solicit two types of submissions:

- Regular papers (up to 15 pages, excluding the bibliography and well-marked appendices) describing original and unpublished work within the scope of the workshop.
- Short papers (up to 7 pages, excluding the bibliography and well-marked appendices) describing original and unpublished work in progress.

The reviewers are not required to read the appendices, so the papers should be intelligible without them. All submissions must be prepared using the LNCS style:
`http://www.springer.com/computer/lncs?SGWID=0-164-6-793341-0`.
Each paper will undergo a thorough review process. All accepted (regular and short) papers will be included in the workshop's post-proceedings. The GraMSec 2017 post-proceedings will be published in the Lecture Notes in Computer Science (LNCS) series of Springer. Submissions should be made using the GraMSec 2017 EasyChair web site: `https://www.easychair.org/conferences/?conf=gramsec17`.

IMPORTANT DATES

Submission deadline:	Sunday, May 28, 2017 (firm)
Acceptance notification:	Friday, July 7, 2017
GraMSec workshop:	Monday, August 21, 2017

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