

Call for Papers: BADGERS'14
3rd International Workshop on Building Analysis Dataset and Gathering
Experience Returns for Security
DEADLINE EXTENDED

September 11, 2014, Wroclaw, Poland

<http://necoma-project.eu/badgers14/>
<http://www.easychair.org/conferences/?conf=badgers2014>

Overview

The BADGERS workshop is the venue for research on Big Data for security. This year, BADGERS will be collocated with ESORICS 2014 in Wroclaw, Poland, in the second week of September.

In contrast to the systems community, security researchers have only recently started collecting and looking at Internet-scale, real-world data (e.g., the EU WOMBAT and the US PREDICT initiatives). Experimental security analysis performed on such data is often hampered by concerns such as confidentiality, privacy, and liability. However attackers have become experts in leveraging the whole Internet to achieve their goals. To understand the modus operandi and the motivations of attackers, both the access to Internet-scale, real-world data and the techniques to mine it for relevant security knowledge are necessary. Hence there is a growing need to widen the scope of data-driven security analysis.

The BADGERS workshop is positioned at the confluence of computer security and general purpose large-scale data processing and aims at bringing together people (e.g., researchers, practitioners, system administrators, security analysts) active in the emerging domain of security-related data collection and analysis for Internet-scale computer systems and networks. By giving visibility to existing solutions, the workshop promotes and encourages the better sharing of data and knowledge. The increasing availability of tools and techniques to process large-scale data (aka Big Data) will benefit computer security.

Important Dates

- Submission due: ~~June 23, 2014~~ **July 7, 2014 (EXTENDED)**
- Acceptance notification: August 7, 2014
- Camera-ready due: August 14, 2014
- Workshop date: September 11, 2014

Topics of Interest

The BADGERS workshop seeks papers in areas related to Big Data for security, including the following:

- Scalable data collection from networks, hosts, or applications
- Real-time gathering and aggregation of diverse sets of raw data
- Summarization of raw data with respect to security goals
- Attack-resilient data collection
- Characterization of dataset external validity
- Scalability of security analysis with data volume
- Scalability of security analysis with concurrent-attack volume
- Combined historical and real-time security analysis
- Evaluation of result accuracy for large datasets
- Design of realistic large-scale testbeds
- Real-time, incremental anonymization for data sharing
- Successful, failed, and novel models of data sharing

- Sharing of analysis results and supporting data
- Internet-scale sharing of security intelligence
- Legal issues of data collection and sharing

We especially encourage novel and controversial ideas that are not on the above list. Our goal is to create through BADGERS a venue for fruitful discussion about Big Data for security.

Submission Formats

The BADGERS workshop solicits two kinds of submissions:

- Regular papers, up to 12 pages - excluding bibliography and well-marked appendices. Submitted papers including bibliography and appendices should not exceed 16 pages.
- Work-in-progress papers, up to 6 pages including bibliography.

Submissions need not be anonymized. **Conference proceedings will be published by IEEE/CPS. Please use the IEEE/CPS Conference Templates to prepare your submission.** MS Word users should use the A4 sized template. Submissions are handled by EasyChair.

Organisation Committee

Program Chairs:

- Mihai Christodorescu, Qualcomm Research, USA
- Sotiris Ioannidis, FORTH, Greece

Steering Committee:

- Marc Dacier
- Thorsten Holz, Ruhr University Bochum, Germany
- Engin Kirda, Northeastern University, USA

Program Committee:

- Elias Athanasopoulos, FORTH, Greece
- Davide Balzarotti, Institut Eurecom, France
- Gregory Blanc, Telecom SudParis, France
- Herbert Bos, VU University Amsterdam, The Netherlands
- Rodrigo Diaz, Atos, Spain
- Joaquin Garcia-Alfaro, Telecom SudParis, France
- Guofei Gu, Texas A&M University, USA
- Daisuke Inoue, NICT, Japan
- Youki Kadobayashi, Nara Institute of Science and Technology, Japan
- Piotr Kijewski, CERT Polska, Poland
- Engin Kirda, Northeastern University, USA
- Kanta Matsuura, University of Tokyo, Japan
- Jose Nazario, Invincea Labs, USA
- Vern Paxson, UC Berkeley, USA
- Moheeb Rajab, Johns Hopkins University, USA
- Marc Stoecklin, IBM Research Zurich, Switzerland
- Jouni Viinikka, 6cure SAS, France
- Antonis Papadogiannakis, ProtectWise, USA

Sponsors

The BADGERS workshop is sponsored by:

- FP7 project NECOMA
- FP7 Network of Excellence SysSec