Call for Contributions

Submission:
1. Inform the Chair: with the Title of your Contribution
2. Submission URL:
Please select Track Preference as **SVNM**

Special track

SVNM: Sonification and Visualisation for Network Monitoring

Chair and Coordinator

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along with
SECURWARE 2017, September 10 - 14, 2017 - Rome, Italy
The Eleventh International Conference on Emerging Security Information, Systems and Technologies

http://www.iaria.org/conferences2017/SECURWARE17.html

Track description: The SVNM track welcomes submissions on the topics of network-security monitoring and attack-detection approaches based on sonification and visualisation. Network monitoring, and attack-detection capabilities are crucial to addressing cybersecurity in networks - including organisational LANs, wireless, and ad-hoc networks. Automated techniques such as Intrusion Detection Systems and firewalls can be complemented by data-presentation techniques such as visualisation and sonification, to enable network situational awareness, decision-making and anomaly-detection.

Security visualisations are widely used as data-presentation tools for security-monitoring tasks, and have the potential to enable situational awareness and network-anomaly detection by security analysts. A number of sonification systems for this application have also been proposed in recent years, with promising benefits such as peripheral/secondary-task monitoring and pattern-recognition. Contributions to this track should advance research in sonification and visualisation research for network-security monitoring; in particular, novel system designs, user-testing results, usability factors, requirements for monitoring and attack-detection, and multimodal systems - the combination of sonification and visualisation and their integration with automated attack-detection techniques.

Topics include, but not limited to:

- Requirements for sonification, visualisation and multimodal system design for network-security monitoring.
- Integration of data-presentation tools with automated detection techniques
- Usability of security-monitoring sonifications and visualisations
- Sonic and visual pattern recognition
- Network anomaly-detection features
- Attack-detection by humans using data-presentation tools
- Modes of monitoring: systems for primary- and secondary-task network monitoring

- Scaling methods for representation of data on large networks
- Integration of new sonification or visualisation systems into existing monitoring setups

Important Datelines

- Inform the Chair: As soon as you decided to contribute
- Submission: August 2
- Notification: August 9
- Registration: August 16
- Camera ready: August 16

Note: These deadlines are somewhat flexible, providing arrangements are made ahead of time with the chair.

Contribution Types
- Regular papers [in the proceedings, digital library]
- Short papers (work in progress) [in the proceedings, digital library]
- Posters: two pages [in the proceedings, digital library]
- Posters: slide only [slide-deck posted on www.iaria.org]
- Presentations: slide only [slide-deck posted on www.iaria.org]
- Demos: two pages [posted on www.iaria.org]

Paper Format
- See: http://www.iaria.org/format.html
- Before submission, please check and comply with the editorial rules: http://www.iaria.org/editorialrules.html

Publications
- Extended versions of selected papers will be published in IARIA Journals: http://www.iariajournals.org
- Print proceedings will be available via Curran Associates, Inc.: http://www.proceedings.com/9769.html
- Articles will be archived in the free access ThinkMind Digital Library: http://www.thinkmind.org

Paper Submission
https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=SECURWARE+2017+Special
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Registration
- Each accepted paper needs at least one full registration, before the camera-ready manuscript can be included in the proceedings.
- Registration fees are available at http://www.iaria.org/registration.html

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