

Curriculum Vitae

Personal Info

Name: Hossein Homaei

Affiliation: Faculty of Electrical and Computer Engineering- Tarbiat Modares University

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Education

- PhD in Information Technology- 2019
Amirkabir University of Technology, Tehran, Iran
Thesis: Software vulnerability analysis using program profiling
Supervisor: Ahmad Abdollahzadeh Barforoush
- M.Sc. in Information Security- 2010
Amirkabir University of Technology, Tehran, Iran
Thesis: Compositional approach to quantify the security of computer systems
Supervisor: Hamid Reza Shahriari
- B.Sc. in Information Technology- 2007
Amirkabir University of Technology, Tehran, Iran
Thesis: Quantitative security evaluation of digital signatures
Supervisor: Hamid Reza Shahriari

Publications

- Hossein Homaei and Hamid Reza Shahriari, Athena: A framework to automatically generate security test oracle via extracting policies from source code and intended software behaviour, Information and Software Technology, vol. 107, pp. 112-124, 2019.
- Mina S. Khazaei, Hossein Homaei, and Hamid Reza Shahriari, OPEXA: Analyzer Assistant for Detecting Over-Privileged Extensions, IET Information Security, vol. 12, no. 6, pp. 558-565, 2018.
- Hossein Homaei and Hamid Reza Shahriari, Seven years of software vulnerabilities: The ebb and flow, IEEE Security & Privacy, vol. 15, no. 1, pp. 58-65, 2017.
- Hossein Homaei and Hamid Reza Shahriari, Compositional Approach to Quantify the Vulnerability of Computer Systems, The Computer Journal, vol. 54, no. 10, pp. 1616-1631, 2011.

Teaching Experiences

- Formal methods in Information Security
- Secure Software Development
- E-Commerce Security
- Network Security
- Database Security
- Vulnerability Analysis

Skills

- C, C++, Java
- Shell scripting in Linux
- Penetration testing of web and Android applications
- Intrusion detection with Snort and Suricata

Honors & Awards

- B.Sc. talent student at Amirkabir University of Technology
- M.Sc. talent student at Amirkabir University of Technology

- Laureate of the 33rd Khwarizmi International Award
- Best workshop of the 13th International ISC Conference on Information Security & Cryptology
- Best researcher at Parsa (2018)