

SEVİL ŞEN

Wise Lab., Hacettepe University, 06800, Ankara

<http://web.cs.hacettepe.edu.tr/~ssen/>

<https://wise.cs.hacettepe.edu.tr/>

email: ssen@cs.hacettepe.edu.tr

EDUCATION

BSc, 2002, Department of Computer Science and Engineering, Hacettepe University, Turkey

MSc, 2005 Department of Computer Engineering, Hacettepe University, Turkey

PhD, 2011, Department of Computer Science, University of York, UK

“Evolutionary Computation Techniques for Intrusion Detection in Mobile Ad Hoc Networks”

WORK EXPERIENCE

Full Professor, 2022-now, Dept. of Computer Engineering, Hacettepe University

Head of the Wireless Networks and Intelligent Secure Systems Lab. (WISE)

Supervising PhD and MSc Students

Teaching Computer Networking and Security, Computer Science Courses

Erasmus Coordinator

Visiting Professor, 2022-2023, Dept. of Computer Science, University of York

Visiting Professor, 2016 (4 months), Dept. of Computer Science, University of York

Assoc. Professor, 2015-2022, Dept. of Computer Engineering, Hacettepe University

Asst. Professor, 2013-2015, Dept. of Computer Engineering, Hacettepe University

Academic Visitor, 2011 (4 months), Digital Security Dept., Eurecom Institute

R&D Engineer, 2003-2006 (part-time), Z-Sistem, Turkey

Research/Teaching Assistant, 2002-2013, Dept. of Computer Engineering, Hacettepe

EDITORIAL ACTIVITIES

Ad Hoc Networks, [Area Editor](#), 2014-now

Genetic Programming and Evolvable Machines, [Area Editor](#), 2021-now

Engineering Science and Technology, an International Journal, [Area Editor](#), 2021-now

Data in Brief, [Area Editor](#), 2023-now

RECENT INVITED TALKS

4thInt. Conf. on Cloud, Big Data and IoT (CBIoT), July 2023, London

“Securing IoT Devices Using Transfer Learning”

University of York, November 2022, York

“Security in the Internet of Things: An Overview and Research Directions”

Sabancı University, December 2021, Online

“Coevolution of Malware and Anti-Malware Systems”

University of Sheffield, June 2021, Online

SELECTED RECENT PUBLICATIONS

- M. Aslan, S. Sen, “A Dynamic Trust Management Model for Vehicular Ad Hoc Networks”, Vehicular Communications (Q1), 2023
- S. Yilmaz, E. Aydogan, S. Sen, “Exploring Placement of Intrusion Detection Systems in RPL-Based Internet of Things”, arXiv preprint arXiv:2303.16561, 2023
- A. Melih Gedikli, M. Koseoglu, S. Sen, “Deep Reinforcement Learning Based Flexible Preamble Allocation for RAN Slicing in 5G Networks”, Computer Networks (Q1), 2022
- S. Yilmaz, E. Aydogan, S. Sen, “A Transfer Learning Approach for Securing Resource-Constrained IoT Devices”, IEEE Transaction on Information Forensics and Security (Q1), 2021
- D. Pancaroglu, S. Sen, “Load Balancing for RPL-Based Internet of Things: A Review”, Ad Hoc Networks (Q1), 2021

Full list: <https://scholar.google.com.tr/citations?user=Wqy6xC8AAAAJ&hl=en%22>

RESEARCH PROJECTS

Coevolutionary Intrusion Detection Strategy for Securing IoT Networks, Researcher, 2023-

supported by TÜBİTAK (Scientific and Technological Research Council of Turkey)

Discovery Security Risks of Android Apps using Metadata, PI, Nov 2018-May 2021

supported by TÜBİTAK 1001, Scientific and Technological Research Projects Funding Program

Detecting Intrusions in Industrial Internet of Things, PI (HU), Sept 2018-July 2019

Joint Project with Mid Sweden University

supported by STINT (Swedish Foundation for International Cooperation in Research and Higher Education)

Do You Want to Install an Update of This Application? A Rigorous Analysis and Detection of Updated Malicious Mobile Applications, PI, Oct 2015-Aug 2018

supported by TÜBİTAK 1003, Primary Subjects R&D Funding Program

Co-Evolution of Malware and Anti-Malware Systems, PI, Ap 2013-June 2015,

supported by TÜBİTAK 3501, National Young Researchers Career Development Program

Security Research Laboratory, PI, 2013

Infrastructure Project, supported by Hacettepe University

For more information on projects: <https://wise.cs.hacettepe.edu.tr/projects/>

INDUSTRIAL PROJECTS (Academic Consultancy)

SiberSim: Cyber Defense Simulation Platform, 2022-2024

supported by Presidency of the Republic of Turkey, Presidency of Defence Industries

Mobile Sandbox, 2020-2021

Konneka

Developing Deep Packet Inspection Software for High Speed Networks, 2020-2021

supported by Presidency of the Republic of Turkey, Presidency of Defence Industries

FUSE-IT: Facility Using Smart Secured Energy and Information Technology, 2017

Ctech, supported by ITEA4-TUBITAK 1519

PERSONAL INTERESTS

- Sport: Yoga (RYT 200 Certified), Rowing (UoY YURow), Hiking
- Reading: novels, psychology, neuroscience
- Travelling and exploring new cultures & art