

Asst. Prof. Mehmet Tahir Sandikkaya

Personal Information

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Address: İTÜ Bilgisayar ve Bilişim Fakültesi, TR34469, Reşitpaşa, Sarıyer, İstanbul.

Education Information

Doctorate, İstanbul Teknik Üniversitesi, Bilişim Enstitüsü, Bilgisayar Bilimleri (Dr), Turkey 2006 - 2015

Postgraduate, İstanbul Teknik Üniversitesi, Bilişim Enstitüsü, Bilgisayar Bilimleri (YI), Turkey 2002 - 2005

Undergraduate, İstanbul Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Elektrik Mühendisliği Bölümü, Turkey 1998 - 2002

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Bilgişlem ortamı sunan bulut için güvenlik düzenekleri, İstanbul Teknik Üniversitesi, Bilişim Enstitüsü, Bilgisayar Bilimleri (Dr), 2015

Postgraduate, Etmelerle Elektronik Oylama, İstanbul Teknik Üniversitesi, Bilişim Enstitüsü, Bilgisayar Bilimleri (YI), 2005

Research Areas

Technical Sciences, Computer Sciences, Information Security and Reliability, Hiding Information, Information System Reliability, Hardware Security, Cryptography, Software Security, Computer Networks, Communications and Network Protocols

Academic Titles / Tasks

Assistant Professor, İstanbul Teknik Üniversitesi, Bilgisayar Ve Bilişim Fakültesi, Bilgisayar Mühendisliği Bölümü, 2018 - Continues

Assistant Professor, İstanbul Teknik Üniversitesi, Bilgisayar Ve Bilişim Fakültesi, Bilgisayar Mühendisliği Bölümü, 2018 - 2018

Lecturer PhD, İstanbul Teknik Üniversitesi, Bilgisayar Ve Bilişim Fakültesi, Bilgisayar Mühendisliği Bölümü, 2016 - 2018

Research Assistant PhD, İstanbul Teknik Üniversitesi, Bilgisayar Ve Bilişim Fakültesi, Bilgisayar Mühendisliği Bölümü, 2016 - 2016

Research Assistant, İstanbul Teknik Üniversitesi, Bilgisayar Ve Bilişim Fakültesi, Bilgisayar Mühendisliği Bölümü, 2011 - 2016

Research Assistant, İstanbul Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2010 - 2011

Research Assistant, Katholieke Hogeschool Sint-Lieven, Technologicampus Gent Of Katholieke Universiteit Leuven, Industrial Engineering, 2008 - 2010

Research Assistant, İstanbul Teknik Üniversitesi, Bilişim Enstitüsü, İleri Teknolojiler Anabilim Dalı, 2002 - 2008

Academic and Administrative Experience

İstanbul Teknik Üniversitesi, Bilgisayar Ve Bilişim Fakültesi, 2011 - 2013

İstanbul Teknik Üniversitesi, Bilgisayar Ve Bilişim Fakültesi, Bilgisayar Mühendisliği Bölümü, 2011 - 2013

Courses

Computer Communications, Undergraduate, 2016 - 2017

Logic Circuits Laboratory, Undergraduate, 2016 - 2017

Object Oriented Programming, Undergraduate, 2016 - 2017

Basic Protocols in Computer Networks, Postgraduate, 2016 - 2017

Microcomputer Laboratory, Undergraduate, 2016 - 2017

Security in Computer Networks, Postgraduate, 2016 - 2017

Principals of Computer Communications, Undergraduate, 2016 - 2017

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **DeMETER in clouds: detection of malicious external thread execution in runtime with machine learning in PaaS clouds**
Sandikkaya M. T. , Yaslan Y., Özdemir C. D.
Cluster Computing, vol.23, no.4, pp.2565-2578, 2020 (Journal Indexed in SCI)
- II. **OTPaas-One Time Password as a Service**
Erdem E., Sandikkaya M. T.
IEEE TRANSACTIONS ON INFORMATION FORENSICS AND SECURITY, vol.14, no.3, pp.743-756, 2019 (Journal Indexed in SCI)
- III. **Design and formal verification of a cloud compliant secure logging mechanism**
Sandikkaya M. T. , Ovatman T., HARMANCI A. E.
IET INFORMATION SECURITY, vol.10, no.4, pp.203-214, 2016 (Journal Indexed in SCI)
- IV. **A Security Paradigm for PaaS Clouds**
Sandikkaya M. T. , HARMANCI A. E.
PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES
INFORMATION SCIENCE: Mathematics, Physics, Technical Sciences, Information Science, vol.16, pp.345-356, 2015
(Journal Indexed in SCI Expanded)

Books & Book Chapters

- I. **Malicious Behavior Classification in PaaS**
ÖZDEMİR C. D. , SANDIKKAYA M. T. , YASLAN Y.
in: Cloud Computing and Services Science, Muñoz Víctor Méndez, Ferguson Donald, Helfert Markus, Pahl Claus, Editor, Springer, Cham, Cham, pp.215-232, 2019

Refereed Congress / Symposium Publications in Proceedings

- I. **Detecting malicious behavior in microservice based web applications Mikroservis tabanlı ağ uygulamalarında zararlı davranışların saptanması**
Ozbek M., Sandikkaya M. T.
27th Signal Processing and Communications Applications Conference, SIU 2019, Sivas, Turkey, 24 - 26 April 2019
- II. **Classifying Malicious Thread Behavior in PaaS Web Services**
Özdemir C. D. , Sandikkaya M. T. , Yaslan Y.
CLOSER 8th International Conference on Cloud Computing and Services Science, Madeira, Portugal, 19 - 21 March 2018, vol.1, pp.418-425
- III. **Preserving Privacy Using Visual Cryptography in Surveillance Systems**
Okkalı A., Sandikkaya M. T.
2nd International Conference on Computer Science and Engineering UBMK'17, Antalya, Turkey, 5 - 08 October 2017
- IV. **Practical runtime security mechanisms for an aPaaS cloud**
Sandikkaya M. T. , ODEVCI B., Ovatman T.
IEEE Global Communications Conference (GLOBECOM), Texas, United States Of America, 8 - 12 December 2014, pp.53-58
- V. **Security Problems of Platform-as-a-Service (PaaS) Clouds and Practical Solutions to the Problems**
Sandikkaya M. T. , HARMANCI A. E.
31st IEEE International Symposium on Reliable Distributed Systems (SRDS), Irvine, Scotland, 8 - 11 October 2012, pp.463-468
- VI. **Privacy in commercial medical storage systems**
Sandikkaya M. T. , De Decker B., Naessens V.
3rd International ICST Conference on Electronic Healthcare, eHealth 2010, Co-located with the 5th International Workshop on Personalization for eHealth, Pers4eHealth2010, and the 6th Workshop on Agents Applied in Healthcare, A2HC2010, Casablanca, Morocco, 13 - 15 December 2010, pp.247-258
- VII. **Privacy-preserving telemonitoring for ehealth**
LAYOUNI M., VERSLYPE K., Sandikkaya M. T. , De Decker B., VANGHELUWE H.
23rd Annual IFIP WG 11.3 Working Conference on Data and Applications Security, Montreal, Canada, 12 - 15 July 2009, pp.95-110
- VIII. **Prudent Creditization Polling (PCP): A Novel Adaptive Polling Service for an EPON**
KANTARCI B., Sandikkaya M. T. , Yayımlı A., Oktuğ S. F.
11th International IFIP TC6 Conference (ONDM 2007), Atina, Greece, 29 - 31 May 2007, pp.388-397
- IX. **Prudent Creditization Polling (PCP): A novel adaptive polling service for an EPONP**
Kantarci B., Sandikkaya M. T. , Gencata A., Oktug S. F.
11th International Conference on Optical Network Design and Modeling (ONDM 2007), Athens, Greece, 29 - 31 May 2007, vol.4534, pp.388-390
- X. **Agent-based offline electronic voting**
Sandikkaya M. T. , Orencik B.
30th Annual International Computer Software and Applications Conference, COMPSAC 2006, Chicago, IL, United States Of America, 17 - 21 September 2006, vol.2, pp.333-338

Memberships / Tasks in Scientific Organizations

IEEE, Member, 2000 - Continues

Scientific Refereeing

Gazi University Journal of Science, National Scientific Refreed Journal, May 2017

Computer Networks, SCI Journal, March 2017

Computer Networks, SCI Journal, January 2017
Transactions on Emerging Telecommunications Technologies, SCI Journal, December 2016
Computer Networks, SCI Journal, August 2016
Computer Standards & Interfaces, SCI Journal, July 2016
Computer Networks, SCI Journal, June 2016
TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES, SCI Journal, May 2016
Computer Networks, SCI Journal, March 2016
Computer Networks, SCI Journal, January 2016
Transactions on Cloud Computing, Other Indexed Journal, July 2015
Computer Networks, SCI Journal, July 2015
Computer Networks, SCI Journal, July 2015
Computer Networks, SCI Journal, July 2015
Computer Networks, SCI Journal, June 2015
Computer Networks, SCI Journal, March 2015
TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES, SCI Journal, January 2015
Computer Networks, SCI Journal, January 2015
Computer Networks, SCI Journal, November 2014
Computer Networks, SCI Journal, July 2014
International Journal of Communication Systems, SCI Journal, July 2014
Computer Networks, SCI Journal, April 2014
BlackSeaCom2014, Other journals, March 2014
Computer Networks, SCI Journal, December 2013
BlackSeaCom2013, Other journals, May 2013
BlackSeaCom2013, Other journals, May 2013
International Conference on Computational Intelligence and Communication Networks 2013, Other journals, May 2013
Computer Networks, SCI Journal, March 2013
Computer Networks, SCI Journal, February 2013
Computer Networks, SCI Journal, February 2013
Computer Networks, SCI Journal, December 2012
Computer Networks, SCI Journal, November 2012
The International Conference on Computing, Management and Telecommunications (2013), Other journals, October 2012
ELECO2009, Other Journals, September 2009
ISCIS2008, Other journals, July 2008
ISCIS2008, Other journals, July 2008
ISCIS2008, Other journals, July 2008
ISCIS2008, Other journals, July 2008
ISCIS2008, Other journals, July 2008

Edit Congress and Symposium Activities

IEEE/IFIP Network Operations and Management Symposium 2016, Attendee, İstanbul, Turkey, 2016
IEEE PES Innovative Smart Grid Technologies Europe 2014, Panelists, İstanbul, Turkey, 2014
The 5th IEEE PES Innovative Smart Grid Technologies (ISGT) European 2014 Conference, Attendee, İstanbul, Turkey, 2014
4. Ağ ve Bilgi Güvenliği Sempozyumu, Attendee, Ankara, Turkey, 2011
5. Kamu Kurumları Bilgi Teknolojileri Güvenlik Konferansı, Attendee, Ankara, Turkey, 2010
Electronic Voting 2008 (EVOTE2008), Attendee, Leuven, Belgium, 2008
The 8th Privacy Enhancing Technologies Symposium (PETS 2008), Attendee, Leuven, Belgium, 2008
IEEE International Conference on Communications 2006, Attendee, Turkey, 2006

1. Ağ ve Bilgi Güvenliđi Sempozyumu, Attendee, Turkey, 2005

The 3rd Asia Pacific International Symposium on Information Technology, Attendee, Turkey, 2004

Seminar on Electricity Interconnections Liberalization and Trade, Attendee, İstanbul, Turkey, 2001

Citations

Total Citations (WOS):33

h-index (WOS):4