

## Asst. Prof. Mehmet Tahir Sandikkaya

### Personal Information

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### Education Information

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

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

Under Graduate, 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

Post Graduate, Etmenlerle 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

## Professional Experience

Fakülte Yönetim Kurulu Üyesi, İstanbul Teknik Üniversitesi, Bilgisayar Ve Bilişim Fakültesi, Bilgisayar Mühendisliği Bölümü, 2011 - 2013

Fakülte Yönetim Kurulu Üyesi, İstanbul Teknik Üniversitesi, Bilgisayar Ve Bilişim Fakültesi, 2011 - 2013

## Courses

Computer Communications, Under Graduate, 2016 - 2017

Logic Circuits Laboratory, Under Graduate, 2016 - 2017

Object Oriented Programming, Under Graduate, 2016 - 2017

Basic Protocols in Computer Networks, Post Graduate, 2016 - 2017

Microcomputer Laboratory, Under Graduate, 2016 - 2017

Security in Computer Networks, Post Graduate, 2016 - 2017

Principals of Computer Communications, Under Graduate, 2016 - 2017

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

- **OTPaas-One Time Password as a Service**  
Erdem E., Sandikkaya M. T.  
IEEE TRANSACTIONS ON INFORMATION FORENSICS AND SECURITY, vol.14, pp.743-756, 2019 (Journal Indexed in SCI)
- **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, 2019 (Journal Indexed in SCI)
- **Design and formal verification of a cloud compliant secure logging mechanism**  
Sandikkaya M. T. , Ovatman T., HARMANCI A. E.  
IET INFORMATION SECURITY, vol.10, pp.203-214, 2016 (Journal Indexed in SCI)
- **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

- **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

- **Detecting malicious behavior in microservice based web applications Mikro servis 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
- **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
- **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
- **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
- **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
- **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
- **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
- **Prudent Creditization Polling (PCP): A Novel Adaptive Polling Service for an EPON**  
KANTARCI B., Sandikkaya M. T. , Yaymılı A., Oktuğ S. F.  
11th International IFIP TC6 Conference (ONDM 2007), Atina, Greece, 29 - 31 May 2007, pp.388-397
- **Prudent Creditization Polling (PCP): A novel adaptive polling service for an EPONP**  
Kantarci B., Sandikkaya M. T. , Gencata A., Oktug S.  
11th International Conference on Optical Network Design and Modeling (ONDM 2007), Athens, Greece, 29 - 31 May 2007, vol.4534, pp.388-390
- **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

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  
Computer Networks, SCI Journal, January 2015  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES, 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  
International Conference on Computational Intelligence and Communication Networks 2013, Other journals, May 2013  
BlackSeaCom2013, Other journals, May 2013  
BlackSeaCom2013, 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

## **Invited Congress and Symposium Activities**

IEEE/IFIP Network Operations and Management Symposium 2016, Attendee, İstanbul, Turkey, 2016  
The 5th IEEE PES Innovative Smart Grid Technologies (ISGT) European 2014 Conference, Attendee, İstanbul, Turkey, 2014  
IEEE PES Innovative Smart Grid Technologies Europe 2014, Panelists, 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):31

h-index (WOS):3