

# Prof. Dr. KEMAL BIÇAKCI

## PERSONAL DATA

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NAME: Kemal Biçakci  
GENDER: Male  
ADDRESS: ITU Ayazaga Kampusu, Bilisim Enstitüsü Maslak-34469, Istanbul Turkey  
HOMEPAGE: <http://www.kemalbicakci.com>  
FAMILY STATUS: Married with three children

## WORK EXPERIENCE

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since 12/2020	Faculty member at Istanbul Technical University, current position: Founding Head of cybersecurity vocational school and Full Professor in Informatics Inst. and Computer Engineering Dept.
since 03/2016	Co-Founder of Securify Inc. (a grow-up company in cyber security do- main providing identity and access management solutions and special- ized in behavioral biometrics) current position: Chairman of the Board.
08/2007–12/2020	Faculty member at TOBB University,
09/2011–11/2011	Visiting Scholar, Carleton University, Canada
04/2006–07/2007	IT Coordinator, National Agency, Turkey
08/2004–01/2006	Postdoc Researcher, Vrije University, The Netherlands
05/2000–03/2006	Teaching Assistant / Instructor, METU, Turkey
01/1998–03/2000	Graduate Research Assistant, USC/Information Sciences Institute, USA
08/1996–07/1997	Teaching Assistant, METU, Turkey

## ACADEMIC TITLES

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02/2015	Full Professor
06/2009	Associate Professor (Computer Engineering)
08/2007	Assistant Professor

## EDUCATION

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09/2003	PH.D. DEGREE, Information Systems Informatics Institute, Middle East Technical University (METU) Ankara, Turkey
05/1999	M.S. DEGREE, Electrical Engineering (Computer Networks) University of Southern California (USC) Los Angeles, USA
06/1996	B.S. DEGREE, Electronics Engineering Hacettepe University Ankara, Turkey
06/1992	HIGH SCHOOL DIPLOMA Ankara Atatürk Anatolian High School Ankara, Turkey

## RESEARCH INTERESTS

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Cybersecurity (blockchain, authentication, behavioral biometrics)  
Applied cryptography (digital signatures, white-box cryptography, post-quantum crypto)  
Wireless and sensor networks (security, optimization, modeling)

## SELECTED RESEARCH PROJECTS

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SECURIFYID-FACE: Privacy Preserving Verification of Real-World Identities with Face Recognition Technology, (TUBITAK 1501, completed), Role: Principal Investigator (PI)

Authentication Anomaly Detection with User Behavioral Analytics, (TUBITAK 1501, completed), Role: PI

Design and Implementation of a Passwordless Password Manager System with Single Sign On Feature, (TUBITAK 1501, completed), Role: Principal Investigator (PI)

Development of Mobile-Identity Solution based on White-Box Cryptography, (TUBITAK 1501, finished), Role: Principal Investigator (PI).

Implementation of a Secure, Quickly-Adaptable and Portable Remote Working System, (TUBITAK 1501, finished), Role: Co-Principal Investigator (PI).

Development of a HSM-based Crypto Asset Wallet, (TUBITAK 1501, finished), Role: Co-PI.

WARNING: A Defense-in-depth Cyber Intelligence Platform to Defend against Emerging Cyber Attacks (TUBITAK 2556 – QNRF Joint Funding Program, finished), Role: PI.

Security in Insecure Environment: Design and Development of White-Box Cryptography Library (TUBITAK 1505, finished), Role: PI.

Development of Authentication Sys. Based on Behavioral Biometrics (TUBITAK 1507, finished), Role: PI.

## SERVICES AND CONSULTANCY WORK (SELECTED)

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Member of Editorial Board - Computer Standards and Interfaces (Elsevier), continuing.

Member of Turkish Cyber Security Cluster supported by the Presidency of the Republic of Turkey Presidency of Defence Industries, continuing.

Member of Science, Technology and Innovation Policy Board Cyber Security and Communication Infrastructure Working Group, 2019-2020.

Member of TUBITAK TEYDEB (Industrial R&D Program) BILTEG (Information Technologies Group) Committee, 2012 - 2016.

Consultancy for various defense industry and IT companies including Havelsan, STM, Comodo, Turktrust, ICTerra, Innova, Procenne, Ofisimcom, Ozgur Entegrasyon, Javatar, GETEK, ILG, and others.

Consultancy for TUBITAK BILGEM (Turkish National E-ID Card project)

Consultancy for the Turkish Electronic Signature Law (date: 15/1/2004, no: 5070)

## HONORS AND AWARDS

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Securify Inc. received a demand of 11 million TL from 1700 investors in 327 minutes in the investment round organized through the Fonbulucu, a share-based crowdfunding platform.

Award, Adviser of Kaan Kucuk, 3rd Place, Turkey Cyber Security Cluster, Cyber Security Graduation Project Competition.

Award, 2nd Place (among 500 start-ups), for the BiyoSecure product of Securify Inc., TechAnkara 2018, organized by Ankara Development Agency.

MS Thesis Supervisor of Yusuf Uzunay, 2005 – 2006 Academic Year Middle East Technical University Best Thesis Award Winner.

## REFERENCES

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Paul van Oorschot, Prof. Dr., Professor of Computer Science, Canada Research Chair in Authentication and Computer Security, Carleton University, Ottawa, Canada.

Andrew S. Tanenbaum, Prof. Dr., Head of Computer Systems Section, Department of Computer Science, Vrije Universiteit, Amsterdam, The Netherlands.