

Taner ARSAN
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Short Biography

Taner Arsan (Ph.D.) has been a faculty member in the Department of Computer Engineering, Faculty of Engineering and Natural Sciences at Kadir Has University since March 2000. He received his B.Sc. degree in Electronics and Telecommunication Engineering from Istanbul Technical University (ITU) in 1990, and his M.Sc. and Ph.D. degrees in Control and Computer Engineering from ITU in 1994 and 1999, respectively. Throughout his academic career at Kadir Has University, he has served as Advisor to the Rector, Associate Dean of the Faculty of Engineering and Natural Sciences, and Head of the Department of Computer Engineering. He currently serves as the Secretary General of Kadir Has University while continuing his academic duties as an Associate Professor in the Department of Computer Engineering.

His research interests span artificial intelligence and machine learning, explainable AI, natural language processing, indoor positioning systems, sensor fusion, wireless communications, optimization algorithms, signal processing, and complex systems analysis. His recent work focuses on the application of AI to text analytics, anomaly detection, generative AI, and interdisciplinary engineering problems, while his earlier research has made significant contributions to indoor localization, ultra-wideband sensor technologies, and predictive control systems.

Taner Arsan has authored 18 peer-reviewed journal articles indexed in the SCI-Expanded, 10 peer-reviewed journal articles indexed in other databases, 37 peer-reviewed full papers published in conference proceedings, one peer-reviewed conference presentation, one peer-reviewed exhibition, and five technical reports. He has supervised one Ph.D. dissertation and 16 M.Sc. theses.

Research Projects

He is the **Principal Investigator** of the following projects:

- OpenUS4ALL - Open Universal STEAM for All, Erasmus+ KA220 Project, Consortium Member (KHAS), STEAM, Universal Design for Learning ve Open Schooling, Grant Number: 2023-1-ES01-KA220-SCH-000166940, February 2024 – .
- MEDNIGHT: Mediterranean Researchers' Night (2024 and 2025 Editions), Consortium Member (KHAS), the European Union's Horizon 2020 research innovation programme under the Marie Skłodowska Curie grant agreement No 101162227, 01.01.2024-04.11.2025.
- Network Anomaly Detection, Turknet Research Project, 15.11.2022 – 15.05.2023.
- MEDNIGHT: Mediterranean Researchers' Night, Consortium Member (KHAS), the European Union's Horizon 2020 research innovation programme under the Marie Skłodowska Curie grant agreement No 101036107, 01.01.2022 – 04.11.2023.
- "Behavior Mapping with High Accuracy Indoor Positioning using Ultra Wide Band (UWB) Sensors" between 15.04.17 and 15.04.18 with a seed grant of 12,000 Euro, Kadir Has University Personal Research Project.
- "Indoor Geo-Location" between July 1, 2014 and May 1, 2015, with the grant of 46.684 USD, Vodafone Telecommunication A.S.
- "Self Learning (2G/3G/LTE/Wi-Fi)" between June 1, 2014 and April 1, 2015 with the grant of 34.457 USD, Vodafone Telecommunication AS.
- "Establishment and Execution of Entrepreneurship Certificate Program at Kadir Has University, Project No: 4150007, 1601, TUBITAK - The Scientific and Technological Research Council of Turkey, between 01.09.2015 and 31.05.2018, with the grant of 43.479 USD.

He worked as a **Researcher** at several projects, such as “Steelcase Active Learning Center” with the grant of 24,792 Euro, “Polyvision and Kadir Has University Research Partnership on Use of Duo Walls” with the grant of 23,175 Euro.

He worked as a **Technical Advisor** on several projects, including Fablab Istanbul, funded by the Istanbul Development Agency, between 15.08.2013 and 15.05.2014, with a grant of 199.466 USD. Urban Engineering Laboratory, November 2013 + 3 years, funded by IBM Shared University Research, with a grant of 280,000 USD.

Published Books and Book Chapters:

- Taner Arsan, Rifat Çölkesen, Digital Design in Computer and Electronics Engineering (in Turkish), Papatya Yayıncılık, ISBN: 978-975-6797-07-5, March 2001 (1.Edition) - November 2007 (2. Edition), Istanbul.
- Taner Arsan and Orcun Kepez (in English, Book Chapter, Chapter 14) “Steelcase Active Learning Centre as a Test Bed for Engineering Design Projects.” In Innovative Teaching and Learning Practices in Higher Education, edited by Kayoko Enomoto, Richard Warner, and Claus Nygaard. Oxfordshire, UK: Libri Publishing Ltd., 2018.
- Introduction to Computer Engineering, Algorithms and Flowcharts (in Turkish, Book Chapter, Chapter 3), October 2007, Papatya Yayıncılık, ISBN: 978-975-6797-77-8, İstanbul.

Lectured Courses

CE515 Data Science and Analytics, Graduate, 3+0+0 hours/week,

CMPE403 Data Science and Analytics Project, Undergraduate, Elective, 3+0+0 hours/week,

CMPE243 Logic Circuit Design, Undergraduate, Compulsory, 2+2+0 hours/week,

CMPE244 Computer Organization & Architecture, Undergraduate, Compulsory, 2+2+0 hours/week),

CMPE451 Network Engineering – I, Undergraduate, Elective, 3+0+2 hours/week,

CMPE452 Network Engineering – II, Undergraduate, Elective, 3+0+2 hours/week,

CMPE415 Cloud Infrastructure and Services, Undergraduate, Elective, 3+0+0 hours/week,

CMPE416 Information Storage and Management, Undergraduate, Elective, 3+0+0 hours/week,

CE354 Embedded System Design, Undergraduate, Compulsory, 3+0+0 hours/week,

CE414 Mobile Application Development, Undergraduate, Elective, 3+0+0 hours/week,

MTE293 Logic Design, Undergraduate, Compulsory, 2+0+2 hours/week,

EE352 Systems Control, Undergraduate, Compulsory, 3+0+0 hours/week,

EE502 Linear Systems, Graduate, 3+0+0 hours/week.