Prof. Kasım Murat Karakaya

Personal Information

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Biography

Dr. Murat KARAKAYA is a dedicated Computer Engineering expert with a passion for advancing machine learning and deep learning technologies. His academic journey began at the Turkish Military Academy, where he earned his B.S.E.E. degree in 1991. He went on to complete his M.S. and Ph.D. in Computer Engineering at Bilkent University, Ankara, Turkey in 2000 and 2008, respectively.

Professional Journey: Following his academic pursuits, Dr. KARAKAYA embarked on a PostDoc position at the Ohio State University, Columbus, USA, between 2009 and 2010. His diverse professional experience includes roles as an instructor and software engineer at the Turkish Military Academy, Ankara, Turkey from 2000 to 2005. He also served as a project manager at the NCSA, NATO HQ, Mons, Belgium from 2005 to 2008.

From 2008 to 2012, he contributed his expertise as an instructor and software engineer at the Turkish Military School of Electronics, Communications and Information Systems (MEBS) and Turkish Military Academy (KHO), Ankara, Turkey. In 2012, Dr. KARAKAYA joined the Computer Engineering department at Atılım University, Ankara, Turkey, where he has excelled as an Assistant Professor, later being promoted to Associate Professor in 2017, and subsequently to the rank of Professor in 2022. Dr. KARAKAYA currently works at the Software Engineering department at TED University, Ankara, Turkey

Research and Contributions: Dr. KARAKAYA's research interests span a range of cutting-edge fields including Machine Learning, Deep Learning, Natural Computing, Sensor Networks, and Peer-to-Peer networks. His extensive body of work encompasses 11 papers published in SCI and SCI-Expanded journals, along with 26 papers in journals indexed by other sources. Additionally, he has presented 41 international conference papers, 10 national conference papers, and contributed a book chapter. His innovative mindset is further evidenced by his granted and pending patents.

Educational Initiatives: A committed educator, Dr. KARAKAYA has recently introduced three pioneering courses: Machine Learning for Engineers, Fundamentals of Deep Learning, and An Introduction to Machine Learning. His dedication to knowledge dissemination extends to over 250 tutorials on Deep Learning and Machine Learning, available on his YouTube channel. He is an avid contributor on the Medium platform, where he shares practical solutions to Deep Learning and Machine Learning challenges. Furthermore, Dr. KARAKAYA generously provides Python source codes for numerous problems in these domains on his GitHub repository.

Leadership and Project Management: Dr. KARAKAYA has overseen eight research projects supported by Atılım University and participated as a researcher in two projects funded by TUBITAK (Scientific and Technical Research Council of Turkey). He has established two research groups, the Natural Computing Interest Group and the Salda Deep Learning Research Group and has collaborated with group members on publishing over 20 papers in the areas of Machine Learning, Deep Learning, and Natural Computing.

Recognition and Awards: His contributions have not gone unnoticed, as Dr. KARAKAYA has received two Best Paper awards from international conferences and garnered 12 research and publication incentive grants from Atılım University and TUBITAK.

Education Information

Doctorate, Ihsan Dogramaci Bilkent University, Mühendislik, Bilgisayar, Turkey 2000 - 2008
Postgraduate, Ihsan Dogramaci Bilkent University, Mühendislik, Bilgisayar, Turkey 1998 - 2000

Foreign Languages

English, C2 Mastery

Dissertations

Doctorate, Counteracting free riding in pure peer-to-peer networks, Ihsan Dogramaci Bilkent University, 2008

Postgraduate, An Efficient broedcast scheduling algorithm for pull-based mobile environments, Ihsan Dogramaci Bilkent University, 2000

Research Areas

Computer Sciences, algorithms, Computer Vision, Database and Data Structures, Artificial Intelligence, Computer Learning and Pattern Recognition, Engineering and Technology

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