Asst. Prof. Venera Adanova

Personal Information

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International Researcher IDs
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Biography

Venera Adanova received her B.S. degree in Computer Engineering from Kyrgyz-Turkish Manas University, Bishkek, Kyrgyzstan, in 2005. She received the M.S. and Ph.D. degrees in Computer Engineering from Middle East Technical University, Ankara, Turkey, in 2008 and 2015, respectively. She continued at Computer Engineering Department, Middle East Technical University, as a postdoctoral researcher until summer 2017. In September 2018 she joined TED University as an Assistant Professor in Computer Engineering Department.

Her research interests include image processing and computer vision focused on symmetry, and analysis and classification of tilings.

Education Information

Doctorate, Middle East Technical University, Faculty Of Engineering, Department Of Computer Engineering, Turkey 2008 - 2015
Postgraduate, Middle East Technical University, Faculty Of Engineering, Department Of Computer Engineering, Turkey 2005 - 2008
Undergraduate, Kırgızistan-Türkiye Manas Üniversitesi, Engineering Faculty, Bilgisayar Mühendisliği, Kyrgyzstan 2001 - 2005

Foreign Languages

Turkish
English
Russian
Kirghiz

Dissertations

Doctorate, An Escher Aware Pattern Analysis: Symmetry Beyond Symmetry Groups, Middle East Technical University, Faculty Of Engineering, Department Of Computer Engineering, 2015
Postgraduate, Cost-Effective Fault Tolerant Routing in Networks on Chip, Middle East Technical University, Faculty Of Engineering, Department Of Computer Engineering, 2008

Academic Titles / Tasks

Assistant Professor, TED University, Faculty of Engineering, Department of Computer Engineering, 2018 - Continues

Academic and Administrative Experience

Deputy Head of Department, TED University, Faculty Of Engineering, Department Of Computer Engineering, 2023 - Continues
Web Committee Member, 2021 - Continues
Center for Applied Data Science Academic Committee Member, 2019 - Continues
Student Communities Commission, 2019 - Continues
Acting department chair, 2020 - 2020

Courses

Postgraduate
Machine Learning, Postgraduate, 2021 - 2022
Machine Learning, Postgraduate, 2019 - 2020, 2018 - 2019
Computer Vision, Postgraduate, 2019 - 2020
Undergraduate
Introduction to Machine Learning, Undergraduate, 2023 - 2024, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019
Discrete Structures of Mathematics, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020
Summer Practice II, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019
Fundamentals of Programming I, Undergraduate, 2022 - 2023, 2021 - 2022
Concepts of Programming Languages, Undergraduate, 2021 - 2022
Fundamentals of Programming I, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019
Introduction to Computer Vision, Undergraduate, 2019 - 2020
Electrical Circuits and Logic Design, Undergraduate, 2018 - 2019
Senior Project I, Undergraduate, 2018 - 2019

Jury Memberships

Post Graduate, Post Graduate, Ostim Teknik Üniversitesi, July, 2024
Post Graduate, Post Graduate, Ostim Teknik Üniversitesi, July, 2024
Doctorate, Doctorate, Orta Doğu Teknik Üniversitesi, March, 2024
Post Graduate, Post Graduate, TED Üniversitesi, December, 2023
Post Graduate, Post Graduate, Middle East Technical University, January, 2023
Post Graduate, Post Graduate, TED University, August, 2022
Academic Staff Examination, Academic Staff Examination, TED University, August, 2022
Doctoral Examination, Doctoral Examination, Middle East Technical University, November, 2021
Doctoral Examination, Doctoral Examination, Middle East Technical University, November, 2021
Post Graduate, Post Graduate, Middle East Technical University, September, 2019
Post Graduate, Post Graduate, TED University, July, 2019

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Analysis of Planar Ornament Patterns via Motif Asymmetry Assumption and Local Connections**
Adanova V., TARI Z. S.

JOURNAL OF MATHEMATICAL IMAGING AND VISION, vol.61, no.3, pp.269-291, 2019 (SCI-Expanded)

II. **Beyond symmetry groups: A grouping study on Escher's Euclidean ornaments**
Adanova V., TARI Z. S.
GRAPHICAL MODELS, vol.83, pp.15-27, 2016 (SCI-Expanded)

Articles Published in Other Journals

I. **Outdoor People Tracking**
Adanova V., Atagoziev M.
Manas Journal of Engineering, vol.6, no.1, pp.45-55, 2018 (Peer-Reviewed Journal)

Books

I. **A data driven modeling of ornaments**
Adanova V., Tari S.
in: Research in Data Science, E. Gasparovic,C. Domeniconi, Editor, Springer Nature, Aarau, pp.283-297, 2019

II. **Shape Patterns in Digital Fabrication: A Survey on Negative Poisson's Ratio Metamaterials**
Yılmaz B., Adanova V., Acar R., Tari S.
in: Research in Shape Analysis, A. Genctav,K. Leonard,S. Tari,E. Hubert,G. Morin,N. El-Zehiry,E. Chambers, Editor, Springer Nature, Aarau, pp.161-172, 2018

Papers Published in Refereed Scientific Meetings

I. **Extracting Unit Cells from Tilings with Color Symmetries: Case of Counterchange Patterns**
Adanova V., Tari S.
Bridges Finland Mathematics, Music, Art, Architecture, Education, Culture, Jyvaskyla, Finland, 9 - 13 August 2016, pp.453-456

II. **Beyond symmetry groups: A grouping study on Escher's euclidean ornaments**
Adanova V., Tari Z. S.
SIGGRAPH Asia 2014 Workshop on Creative Shape Modeling and Design, SA 2014, Shenzhen, China, 3 - 06 December 2014

Peer Reviews in Scientific Publications

MACHINE VISION AND APPLICATIONS, Journal Indexed in SCI-E, June 2023
MACHINE VISION AND APPLICATIONS, Journal Indexed in SCI-E, May 2023
MACHINE VISION AND APPLICATIONS, Journal Indexed in SCI-E, December 2022
MACHINE VISION AND APPLICATIONS, Journal Indexed in SCI-E, July 2022
MACHINE VISION AND APPLICATIONS, Journal Indexed in SCI-E, June 2021
MACHINE VISION AND APPLICATIONS, Journal Indexed in SCI-E, March 2021
MACHINE VISION AND APPLICATIONS, Journal Indexed in SCI-E, June 2020
MACHINE VISION AND APPLICATIONS, Journal Indexed in SCI-E, September 2019
MACHINE VISION AND APPLICATIONS, Journal Indexed in SCI-E, August 2019
MACHINE VISION AND APPLICATIONS, Journal Indexed in SCI-E, August 2019
MACHINE VISION AND APPLICATIONS, Journal Indexed in SCI-E, April 2019