

## **Asst. Prof. Venera Adanova**

### **Personal Information**

**Office Phone:** [+90 312 585 0341](tel:+903125850341)

**Email:** [venera.adanova@tedu.edu.tr](mailto:venera.adanova@tedu.edu.tr)

**Web:** <https://avesis.tedu.edu.tr/venera.adanova>

### **International Researcher IDs**

ORCID: 0000-0001-7247-0288

ScopusID: 56453481700

Yoksis Researcher ID: 292896

### **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

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

Machine Learning, Postgraduate, 2021 - 2022

Concepts of Programming Languages, Undergraduate, 2021 - 2022

Fundamentals of Programming I, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019

Machine Learning, Postgraduate, 2019 - 2020, 2018 - 2019

Introduction to Computer Vision, Undergraduate, 2019 - 2020

Computer Vision, Postgraduate, 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 & Book Chapters

### 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

Yilmaz 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

## Refereed Congress / Symposium Publications in Proceedings

### 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

## Scientific Refereeing

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