

## Prof.Dr. ZEHRA SİBEL TARI

### Kişisel Bilgiler

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### Eğitim Bilgileri

Doktora, Northeastern University, Amerika Birleşik Devletleri 1993 - 1997

### Yaptığı Tezler

Doktora, Shape Analysis without Segmentation, Northeastern University, 1997

### Araştırma Alanları

Bilgisayarla Görme, Yapay Zeka, Bilgisayarda Öğrenme ve Örüntü Tanıma

### Akademik Unvanlar / Görevler

Prof.Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2009 - Devam Ediyor

Doç.Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2003 - 2009

Yrd.Doç.Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2001 - 2003

Yrd.Doç.Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Mühendislik Bilimleri Bölümü, 1998 - 2001

Araştırma Görevlisi, Northeastern University, 1992 - 1997

### Yönetilen Tezler

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TARI Z. S. , Simultaneous bottom-up/top-down processing in early and mid level vision, Doktora, M.ERKUT(Öğrenci), 2008  
TARI Z. S. , Human motion analysis via axis based representations, Yüksek Lisans, S.ERDEM(Öğrenci), 2007  
TARI Z. S. , Edge preserving smoothing with directional consistency, Yüksek Lisans, A.SANCAR(Öğrenci), 2007  
TARI Z. S. , Context sensitive matching of two shapes, Yüksek Lisans, E.BAŞESKİ(Öğrenci), 2006  
TARI Z. S. , Disconnected skeletons for shape recognition, Yüksek Lisans, Ç.ASLAN(Öğrenci), 2005  
TARI Z. S. , Cognitive aspects of image zooming, Yüksek Lisans, G.ÖNCÜL(Öğrenci), 2002

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

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- III. **Complexity of Shapes Embedded in Z with a Bias towards Squares**  
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- IV. **Analysis of Planar Ornament Patterns via Motif Asymmetry Assumption and Local Connections**  
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- V. **Discrepancy: Local/Global Shape Characterization with a Roundness Bias**  
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- VI. **A probabilistic sparse skeleton based object detection**  
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- VII. **NonLocal via Local-NonLinear via Linear: A New Part-coding Distance Field via Screened Poisson Equation**  
Genctav M., Genctav A., TARI Z. S.  
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- VIII. **Guest Editorial: Shape Analysis Beyond the Eikonal Equation**  
TARI Z. S. , Vese L., Rangarajan A.  
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- IX. **Beyond symmetry groups: A grouping study on Escher's Euclidean ornaments**  
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- X. **Landmarks inside the shape: Shape matching using image descriptors**  
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- XI. **The Role of Diffusion in Figure Hunt Games**  
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JOURNAL OF MATHEMATICAL IMAGING AND VISION, cilt.52, sa.1, ss.108-123, 2015 (SCI İndekslerine Giren Dergi)
- XII. **A robust method for scale independent detection of curvature-based criticalities and intersections in line drawings**  
Keles H. Y. , TARI Z. S.

- PATTERN RECOGNITION, cilt.48, sa.1, ss.140-155, 2015 (SCI İndekslerine Giren Dergi)
- XIII. **From a Non-Local Ambrosio-Tortorelli Phase Field to a Randomized Part Hierarchy Tree**  
TARI Z. S. , Genctav M.  
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- XIV. **Screened Poisson Hyperfields for Shape Coding**  
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- XV. **Weighted shapes for embedding perceived wholes**  
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- XVI. **A similarity-based approach for shape classification using Asian skeletons**  
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- XVIII. **Dissimilarity between two skeletal trees in a context**  
Baseski E., Erdem A., TARI Z. S.  
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- XIX. **Mumford-Shah Regularizer with Contextual Feedback**  
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Tari S., Shah J.  
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- XXII. **An integrated approach to computational vision - The edge strength function and the nested symmetries**  
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- XXIII. **Extraction of shape skeletons from grayscale images**  
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- XXIV. **SIMULATION CONCEPTS FOR INFORMATION-SYSTEM**  
MOURANT R., TARI S.  
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## **Diğer Dergilerde Yayınlanan Makaleler**

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- II. **A Non-local Measure for Mesh Saliency via Feature Space Reduction**  
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- V. **Shape Patterns in Digital Fabrication: A Survey on Negative Poisson's Ratio Metamaterials**  
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- VI. **Ornament Analysis with the Help of Screened Poisson Shape Fields**  
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- VII. **Automatic Prior Shape Selection for Image Segmentation**  
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- IX. **Revisiting Skeletons from Natural Images**  
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- XI. **Minimally Stochastic Schemes for Singular Diffusion Equations**  
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## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Local Culprits of Shape Complexity**  
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- II. **Veri Analizi Araçları Kullanarak Eklemlı Şekilleri Şekil Bileşenlerini Bulmadan Temsil Etme**

- GENCTAV A., TARI Z. S.  
VI. International GAP Engineering Congress, 8 - 10 Kasım 2018
- III. **Photoshop plug-ins supporting visual design**  
BAL BOZKURT G., TARI Z. S.  
26th Signal Processing and Communications Applications Conference, 2 - 05 Mayıs 2018
- IV. **A Product Shape Congruity Measure via Entropy in Shape Scale Space**  
GENÇTAV A., TARI Z. S.  
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- V. **Stress Distribution Based Partitioning of Helmets for 3 D Printing**  
BAŞARA G., TARI İ., TARI Z. S.  
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- VI. **Extracting Unit Cells from Tilings with Color Symmetries Case of Counterchange Patterns**  
ADANOVA V., TARI Z. S.  
Bridges 2016, 9 - 13 Ağustos 2016
- VII. **NonLocal via Local NonLinear via Linear**  
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- VIII. **3D Shape Correspondence Under Topological Noise**  
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- IX. **DIFFUSION IS UBIQUITOUS A VOLUME DECOMPOSITION APPLICATION FOR 3D PRINTING**  
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- X. **SHREC 15 Track Non rigid 3D Shape Retrieval**  
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- XI. **Beyond symmetry groups: A grouping study on Escher's euclidean ornaments**  
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- XII. **Wimmelbild analysis with approximate curvature coding distance images**  
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- XIII. **Two Way Coupling of Lagrangian and Eulerian Governing Equations for Particles in Incompressible Fluids**  
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- XIV. **Part-Aware Distance Fields for Easy Inbetweening in Arbitrary Dimensions**  
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- XV. **Revisiting Skeletons from Natural Images**  
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- XVI. **Automatic Prior Shape Selection for Image Segmentation**  
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- XVII. **Top down visual search in Wimmelbild**

- BERGBAUER J., TARI Z. S.  
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- XVIII. **From a Modified Ambrosio-Tortorelli to a Randomized Part Hierarchy Tree**  
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- XIX. **Components of the Shape Revisited**  
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- XX. **Revisiting Shape Embedding**  
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- XXI. **Hierarchical Shape Decomposition via Level Sets**  
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- XXII. **Modified Laplacians for shape analysis**  
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- XXIII. **Coarse-to-Fine Matching of Shapes Using Disconnected Skeletons by Learning Class-Specific Boundary Deformations**  
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- XXIV. **SEGMENTATION USING THE EDGE STRENGTH FUNCTION AS A SHAPE PRIOR WITHIN A LOCAL DEFORMATION MODEL**  
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- XXV. **Articulated motion analysis via axis-based representation**  
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- XXVI. **Mumford-shah regularizer with spatial coherence**  
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- XXVII. **Senior year thermal design course elective or mandatory restricted elective**  
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- XXVIII. **Edge strength functions as shape priors in image segmentation**  
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- XXIX. **An axis-based representation for recognition**  
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- XXX. **Coloring 3D symmetry set: perceptual meaning and significance in 3D**  
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**XXXI. Local symmetries of shapes in arbitrary dimension**

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**XXXII. Multiscale method for feature preserving compression**

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Conference on Nonlinear Image Processing IX, San-Jose, Kostarika, 26 - 27 Ocak 1998, cilt.3304, ss.316-322

**XXXIII. Direct gray scale ridge reconstruction in fingerprint images**

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**XXXIV. Simultaneous segmentation of images and shapes**

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**XXXV. Computationally efficient shape analysis via level sets**

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## **Atıflar**

Toplam Atıf Sayısı (WOS):329

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