

Sibel Tari Yayın Listesi

Başlıca Eserler: 1, 3, 4, 5, 14, 16, 18

Full invited articles in books

1. ■ TARI, S. (2010): Extracting parts of 2D shapes using local and global interactions simultaneously. In: Handbook of Pattern Recognition and Computer Vision 4th edition, Ed. Chen, C. (World Scientific Publishing), 283-303. (*This series of books has been published in memory of the late Prof. King-Sun Fu, who established the grammatical approach. The 4th edition coincides with the 25th anniversary*).
2. ■ BURGETH, B., Weickert, J. and Tari, S. (2007): Minimally stochastic schemes for singular diffusion equations. In: Image Processing Based on Partial Differential Equations, Eds. Tai, X-C., Lie, K-A., Chan, T.F. and Osher, S. (Berlin/Heidelberg: Springer), 325-339

Full articles in Core journals

3. ■ YALIM-KELES, H., Ozkar, M., Tari, S.: Embedding shapes without predefined parts. Environment and Planning B., in press.
4. ■ BASESKI E., Erdem, A. and Tari, S. (2009): Dissimilarity between two skeletal trees in a context. Pattern Recognition **42**, 370-384.
5. ■ ERDEM, E. and Tari, S. (2009): Mumford-Shah regularizer with contextual feedback. Journal of Mathematical Imaging and Vision **33**, 67-84.
6. ■ ASLAN, C., Erdem, A., Erdem, E. and Tari S. (2008): Disconnected Skeleton: Shape at its absolute scale. IEEE Transactions on Pattern Analysis and Machine Intelligence **30**, 2188-2203.
7. ■ TARI, S. and Shah, J. (2000): Nested local symmetry set. Computer Vision Image Understanding **79**, 267-281.
8. ■ TARI, S. (1999): An integrated approach to computational vision. Advances in Imaging and Electron Physics **111**, 327-366.
9. ■ TARI, S., Shah, J. and Pien, H. (1997): Extraction of shape skeletons from grayscale images. Computer Vision Image Understanding **66**, 133-147.

Articles in SCI-E journals

10. ■ MOURANT, R. and Tari, S. (1993): Simulation concepts for information systems. *Computers and Industrial Engineering* **25**, 541-544.

Journal articles which received revision requests from journals

11. ■ TARI, S., Burgeth, B. and Tari, I.: How to use Modified Laplacians for shape analysis: Harmonic analysis perspective. *IEEE Transactions on Pattern Analysis and Machine Intelligence*.
12. ■ ERDEM E. and Tari, S.: Skeletons from natural images. *IEEE Transactions on Pattern Analysis and Machine Intelligence*.

Recently submitted journal articles

13. ERDEM, A. and Tari, S.: Similarity based classification of shapes using Aslan Skeletons. (The paper is based on the thesis of A. Erdem.) Submitted to *Pattern Recognition Letters*.

Full Articles Published in Conference Proceedings or Conference Books

Contributions to the IEEE International Conference on Computer Vision (ICCV):

14. ■ ASLAN, C. and Tari, S. (2005): An axis-based representation for recognition. *Proceedings of the Tenth IEEE International Conference on Computer Vision at Beijing, China, October 2005*, 1339-1346.
15. ■ TARI, S. and Shah, J. (1998): Local symmetries of shapes in arbitrary dimension. *Proceedings of the Sixth IEEE International Conference on Computer Vision at Bombay, India, January 1998*, 1123-1128.

Contributions to LNCS books derived from conferences:

16. ■ TARI, S. (2009): Hierarchical shape decomposition via level sets. In: *Mathematical Morphology*, to appear. (From the Proceedings of the Ninth International Symposium on Mathematical Morphology at Groningen, Netherlands, August 2009). Eds. Wilkinson, M.H.F. and Roerdink, J.B.T.M. (Springer: Berlin/Heidelberg).
17. ■ ERDEM, A. and Tari, S. (2009): Coarse-to-Fine matching of shapes using disconnected skeletons by learning class-specific boundary deformations. In: *Graph-based Representations in Pattern Recognition, Series: Image Processing, Computer Vision, Pattern Recognition, and Graphics, LNCS 5534*. (From the Proceedings of the Seventh Workshop on Graph-based Representations in Pattern Recognition at Venice, Italy, May 2009). Eds. Torsello, A., Escolano, F. and Brun. L. (Springer: Berlin/Heidelberg), 21-34.
18. ■ ERDEM, E., Sancar-Yilmaz A. and , Tari, S. (2007): Mumford-Shah regularizer with spatial coherence. In: *Scale Space and Variational Methods in Computer Vision, Series: Image Processing, Computer Vision, Pattern Recognition, and Graphics, LNCS 4485*. (From the first Scale Space and Variational Methods in Computer Vision Conference at Ischii, Italy, May 2007). Eds. Sgallari, F., Murli, A. and Paragios, N. (Springer: Berlin/Heidelberg), 545-555.
19. ■ ERDEM, E., Erdem, A. and Tari, S. (2005): Edge Strength Functions as shape priors in image segmentation. In: *Energy Minimization Methods in Computer Vision and Pattern Recognition, Series: Image Processing, Computer Vision, Pattern Recognition, and Graphics, LNCS 3757*. (From International Workshop on Energy Minimization Methods in Computer Vision and Pattern Recognition at St. Augustine, USA, November 2005). Eds: Rangarajan, A., Vemuri, B. and Yuille, A. (Springer: Berlin/Heidelberg), 490-502.

In SPIE Book Series:

20. ■ ERDEM S. and Tari, S. (2007): Articulated motion analysis via axis based representation. *Proceedings of the International Society for Optical Engineering, Intelligent Robots and Computer Vision XXV at Boston, MA, USA, September 2007, Vol. 6764, 327-331.*

21. ■ TARI, S. (1999a): Data level fusion using common symmetry set. Proceedings of the International Society for Optical Engineering, Sensor Fusion: Architectures, Algorithms, and Applications III at Orlando, FL, USA, April 1999, Vol. 3719, 327-331.
22. ■ TARI, S. (1999b): Coloring nested symmetry set: Perceptual meaning and significance in 3D images. Proceedings of the International Society for Optical Engineering, Visual Information Processing VIII at Orlando, FL, USA, April 1999, Vol. 3716, 105-109.
23. ■ TARI, S. and Liang, P. (1998): Multi-scale method for feature preserving compression. Proceedings of the International Society for Optical Engineering, Nonlinear Image Processing IX at San Jose, CA, USA, April 1998, Vol. 3304, 316-322.
24. ■ TARI, S. and Shah, J. (1997): Simultaneous segmentation of images and shapes. Proceedings of the International Society for Optical Engineering at San Diego, CA, USA, July 1997, Vol. 3168, 88-94.

In Other IEEE Proceedings:

25. ■ ERDEM E., Tari, S. and Vese, L. (2009): Segmentation Using The Edge Strength Function as a Shape Prior within a Local Deformation Model. Proceedings of the IEEE International Conference on Image Processing, Cairo, Egypt, November 2009, to appear.
26. ■ TARI, S. and Liang, P. (1999): Fingerprint analysis via oriented band-pass filters. Proceedings of the IEEE-EURASIP Workshop in Nonlinear Signal Image Processing at Antalya, Turkey, June 1999, 747-750.
27. ■ TARI, S. (1999c): Color texture morphology. Proceedings of the IEEE-EURASIP Workshop in Nonlinear Signal Image Processing at Antalya, Turkey, June 1999, 872-876.
28. ■ DOMENICONI, C., Tari, S. and Liang, P. (1998): Direct grayscale ridge reconstruction in fingerprint images. Proceedings of the IEEE International Conference Acoustics, Speech and Signal Processing at Seattle, WA, USA, May 1998, pp. 2941-2944.
29. ■ TARI, S., Shah J. and Pien, H. (1996): Computationally efficient shape analysis via level sets. Proceedings of the IEEE-SIAM Workshop Mathematical

Methods in Biomedical Image Analysis at San Francisco, CA, USA, June 1996, 234-244.

Proceedings Indexed by Cumulative Index of Computer Aided Architectural Design:

30. ■ YALIM-KELES, H., Ozkar, M. and Tari, S. (2009): Revisiting shape embedding. Proceedings of the Conference on Education in Computer Aided Architecture and Design Europe at Istanbul, Turkey, September 2009, to appear.

Other Conference Publications

31. ■ TARI, S., Burgeth, B. and Tari, I.(2009): Modified Laplacians for shape analysis. Ninth International Symposium on Mathematical Morphology at Groningen, Netherlands, August 2009, 9-12.
32. ■ ERDEM, A., Erdem, E. and Tari, S. (2006): Articulation prior in axial representation. Proceedings of the Workshop on the Representation and Use of Prior Knowledge in Vision at Graz, Austria, May 2006, 1-14.

Selected Presentations

Abstracts for Invited Presentations at Mathematics Meetings

1. TARI, S. (2008): The Edge Strength Function. SIAM Annual Meeting at San Diego, CA, USA, July 2008.
2. TARI, S. (2000): Nonlinear Diffusion in Computer Vision. The Conference on Nonlinear Analysis at the Courant Institute of Mathematical Sciences, NY, USA, May 2000.

Abstracts for Contributed Presentations at Mathematics Meetings

3. TARI, S., Aslan, C., Baseski, E., Erdem, A. (2006): Disconnected Skeleton. SIAM Annual Meeting at Boston, MA, USA, July 2008.
4. TARI, S. (2001): Mesh Generation for Domains with Unspecified Boundaries. International Conference on Mathematical Modeling and Scientific Computing at Ankara, Turkey, April 2001.

Selected Seminars

Human Vision

1. Contextual and top-down effects in early vision. Seminar Series on Cognition and Neuroscience at the Informatics Institute METU, Ankara, Turkey, March 2007.

Computer Vision and Image Processing

2. Disconnected Skeletons from Dense Images and Patch Based Analysis. Image Processing Seminar at University of California Los Angeles, CA, USA, July 2008. (Host: Luminita Vese.)
3. The edge strength function. Algorithmic Mathematics Group at TU Munich, Germany, May 2008. (Host: Folkmar Bornemann.)
4. Disconnected Skeletons from Dense Images and Patch Based Analysis. Saarland University Saarbruecken, Germany, July 2007. (Host: Joachim Weickert.)
5. Disconnected Skeletons and Articulation Priors for Generic Shape Recognition Brown University, Providence, RI, USA, Nov 2005. (Host: David Cooper.)
6. Local Symmetries in Arbitrary Dimensions. Saarland University Saarbruecken, Germany, September 2003. (Host: Joachim Weickert.)
7. Symmetry Detection in Dense Images and Related Variational Problems. Algorithmic Mathematics Group at TU Munich, Germany, Aug 2001. (Host: Folkmar Bornemann.)
8. Shape Representation and Analysis without Segmentation. Brown University, Providence, RI, USA, October 1996. (Host: Ben Kimia.)