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Education

- Ph.D. 2000, Department of Computer and Information Sciences, University of Delaware, USA
- M.S. 1995, Department of Computer and Information Sciences, University of Delaware, USA
- B.S. 1992, Department of Computer Engineering, Middle East Technical University, Turkey

Work Experience

- 2005- Current, Assistant Prof. Department of Computer Engineering, GIT, Turkey
- 2003-2005, Cognex Corp. Natick, MA, USA, Principal Machine Vision Engineer
- 2000-2003, Cognex Corp. Natick, MA, USA, Senior Machine Vision Engineer

Industrial work experience includes the design, implementation, and test planning of Computer Vision systems for the industrial applications of Machine Vision for inspection, measurement, and quality control. Five years of industrial experience with Cognex Corporation of Natick, MA, which is the worldwide leading Computer Vision firm, produced many commercially successful products like FiberInspect and CVL Inspection Tools as well as many patent applications.

Publications

Journals

- Yusuf Sinan Akgul, Chandra Kambhamettu, and Maureen Stone, "Extraction and Tracking of The Tongue Contours", *IEEE Transactions on Medical Imaging, Special Issue on Model-Based Analysis of Medical Images, Vol 18, No. 10, October 1999, 1035-1045*.
- Yusuf Sinan Akgul and Chandra Kambhamettu, "A Coarse-to-Fine Deformable Contour Optimization Framework." *IEEE Transactions on Pattern Analysis and Machine Intelligence 25(2): 174-186 (2003)*.

Patents

- Bachelder, Ivan ; Akgul, Yusuf; Morje, Prabhav; Koljonen, Juha, "*Method and Apparatus For Focusing An Optical Inspection System.*", United States Patent, 6,636,298, Issued October 21, 2003, Filed December 18, 2001
- Akgul; Yusuf, Bachelder; Ivan, Morje; Prabhav, Koljonen; Juha, Davis; Jason, "*Method for extracting features from an image using oriented filters*", United States Patent, 6,983,065, Issued January 3, 2006.

Refereed Conference Papers

- Ulas Vural and Yusuf Sinan Akgul, "*A Multiple Graph Cut Method for Stereo*", *28th Annual Symposium of the German Association for Pattern Recognition, 2006, To appear*.
- Tarkan Aydin and Yusuf Sinan Akgul, "*3D Structure Recovery From Stereo Using Synchronous Optimization Processes*", *British Machine Vision Conference 2006, To Appear*.
- Ali Iskurt, Sema Candemir, and Yusuf Sinan Akgul, "*Identification of Luminal and Medial Adventitial Borders in Intravascular Ultrasound Images using Level sets*", *21st International Symposium on Computer and Information Sciences (To appear ISCIS 2006)*
- Yusuf Sinan Akgul and Chandra Kambhamettu, "*Acoustic Flow and Its Applications*", *20th International Symposium on Computer and Information Sciences (ISCIS 2005)*
- Yusuf Sinan Akgul, Chandra Kambhamettu and Maureen Stone, "A Task-Specific Contour Tracker for Ultrasound", *IEEE Workshop on Mathematical Methods in Biomedical Image Analysis (MM-BIA2000), 135-141, South Carolina, June 2000*.

- Yusuf Sinan Akgul and Chandra Kambhamettu, "A Scale-Space Based Approach for Deformable Contour Optimization", *Second International Conference on Scale-Space Theories in Computer Vision*, 410-422, Kerkyra, Greece, September 1999.
- Yusuf Sinan Akgul and Chandra Kambhamettu, "Recovery and Tracking of Continuous 3D Surfaces from Stereo Data Using A Deformable-Mesh", *7th IEEE International Conference on Computer Vision*, 765-772, Kerkyra, Greece, September 1999.
- Yusuf Sinan Akgul and Chandra Kambhamettu, "A New Multi-Level Framework for Deformable Contour Optimization", *IEEE Conference on Computer Vision and Pattern Recognition*, II-465-470, Fort Collins, CO, June 1999.
- Yusuf Sinan Akgul, Chandra Kambhamettu and Maureen Stone, "Analysis of The Tongue Surface Movement Using A Spatiotemporally Coherent Deformable Model", *Fourth IEEE Workshop on Applications of Computer Vision*, 109-114, Princeton, New Jersey, Oct. 9-21, 1998.
- Yusuf Sinan Akgul, Chandra Kambhamettu and Maureen Stone, "Automatic Analysis of Tongue Surface Motion from Ultrasound Images", *IEEE Workshop on Biomedical Image Analysis*, 126-132, Santa Barbara CA, June 26-27, 1998.
- Yusuf Sinan Akgul, Chandra Kambhamettu and Maureen Stone, "Extraction and Tracking of The Tongue Surface from Ultrasound Image Sequences", *IEEE Conference on Computer Vision and Pattern Recognition*, 298-303, Santa Barbara, CA, June 23-25 1998.

Journals and Conferences Served as Referee

- IEEE Transactions on Pattern Analysis and Machine Intelligence,
- IEEE Transactions on Image Processing,
- IEEE Transactions on Medical Imaging,
- Pattern Recognition,
- IEEE Conference on Computer Vision and Pattern Recognition

Conference Program Committee Member

- IEEE Workshop on Articulated and Nonrigid Motion, June 27 2004, Washington, DC.
- Asian Conference on Computer Vision (ACCV) January 22-25, 2006, Hyderabad, India.

Awards and Honors

- Frank Pehrson Graduate Student Achievement Award, University of Delaware, 1999
- Quantum Leap Innovations Graduate Student Excellence Award, University of Delaware, 1999
- Departmental Candidate for the best Ph.D. thesis, University of Delaware, 2000
- TUBITAK Career Grant, Turkey, 2006