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Education

- 1992-1997 : **PhD**, Doctor of Philosophy in Electrical and Electronic Engineering
Bogazici University, Istanbul, Turkey
Option: Information and Communication
Specialization : Object-oriented video coding and transmission (MPEG-4)
- 1989-1992 : **MS**, Master of Science in Electrical and Electronic Engineering
Bogazici University, Istanbul, Turkey
Option: Information and Communication
Specialization : Signal and Image Processing
- 1985-1989 : **BS**, Bachelor of Science in Electrical and Electronic Engineering
Middle East Technical University, Ankara, Turkey
Option: Computer and Telecommunications
- 1982-1985 : Ankara Fen Lisesi

Language Proficiency

- English: Fluent
- French: Fluent

Fields of Competence

3D computer graphics & vision, 3D modeling and reconstruction, hierarchical and progressive 3D data transmission, content-based 3D retrieval, 3D digitization of cultural heritage, image processing, pattern recognition, biometrics, multimodal signal processing.

Professional Experience

At present : Associate Professor in Koç University, Computer Engineering Department, Istanbul, Turkey.

October 1999 – June 2000: Postdoctoral Researcher in ENST (*Ecole Nationale Supérieure des Télécommunications*), Signal and Image Processing Department, Paris, France.

Worked for MPEG4-Web3D standardization activities in collaboration with R&D Center of France Telecom (CNET).

September 1997- October 1999: Postdoctoral Fellow in ENST, Signal and Image Processing Department, Paris, France.

Worked in the ESPRIT (New Information Technologies Program) project of the European Community, titled ACOHIR (*Accurate Color High Resolution Recording and Reproduction of 3D Objects for Electronic Publishing*).

1990-1997 : Teaching assistant in Department of Mathematics, Bogazici University.

1993-1996 : Researcher in BUSIM (*Bogazici University Signal and Image Processing*) Laboratory, Istanbul. Worked in the projects titled "Object-oriented coding of video sequences at low-bit rates" and "Human face modeling for video coding", both supported by TUBITAK (The Scientific and Technical Research Council of Turkey).

International Research Collaborations

SIMILAR, European FP6 Network of Excellence on ‘Human-machine interfaces similar to human-human communication’, 2004-2008.

3DTV, European FP6 Network of Excellence on ‘Integrated 3-D Television – Capture, Transmission and Display’, 2004-2008.

Publications

Journal Papers

- Y. Yemez and Y. Sahillioğlu, “Coarse-to-Fine Surface Reconstruction from Silhouettes and Range Data Using Mesh Deformation,” *Computer Vision and Image Understanding*, Vol. 114, No. 3, pp. 334–348, 2010.

- Y. Yemez and Y. Sahillioğlu, “Shape from Silhouette Using Topology-Adaptive Mesh Deformation,” *Pattern Recognition Letters*, Vol. 30, pp. 1198–1207, 2009.

- H. Dutağacı, B. Sankur, Y. Yemez, “Subspace methods for retrieval of general 3D models”, *Computer Vision and Image Understanding*, Vol. 114, No. 8, pp. 865-886, 2010.

- C. B. Akgül, B. Sankur, Y. Yemez, F. Schmitt, “Similarity Learning for 3D Object Retrieval using Relevance Feedback and Risk Minimization”, *International Journal of Computer Vision*, Vol. 89, No. 2-3, pp. 392-407, 2010.

- C. B. Akgül, B. Sankur, Y. Yemez, F. Schmitt, “3D Model Retrieval using Probability Density-Based Shape Descriptors”, *IEEE Transactions on Pattern Analysis and Machine Intelligence*, Vol. 31, No. 6, pp. 1117-1133, June 2009.

- M. E. Sargin, Y. Yemez, E. Erzin, and A. M. Tekalp, “Analysis of Head Gesture and Prosody Patterns for Prosody-Driven Head-Gesture Animation,” *IEEE Transactions on Pattern Analysis and Machine Intelligence*, Vol. 30, No. 8, pp. 1330-1345, August 2008.

- F. Ofli, C. Canton-Ferrer, Y. Demir, K. Balçı, J. Tilmanne, E. Bozkurt, I. Kızıoğlu, Y. Yemez, E. Erzin, A. M. Tekalp, L. Akarun, A. T. Erdem, "An Audio-Driven Dancing Avatar," *Journal on Multimodal User Interfaces*, Springer, Vol. 2, No. 2, pp. 93-103, 2008.
- Y. Yemez and C.J. Wetherilt, "A volumetric fusion technique for surface reconstruction from silhouettes and range data," *Computer Vision and Image Understanding*, Vol. 105, No. 1, pp. 30–41, 2007.
- A. A. Alatan, Y. Yemez, U. Güdükbay, X. Zabulis, K. Müller, Ç. Erdem, C. Weigel and A. Smolic, "Scene Representation Technologies for 3DTV - A Survey", *IEEE Transactions on Circuits and Systems for Video Technology*, Vol. 17, No. 11, pp. 1587-1605, 2007.
- M. E. Sargin, Y. Yemez, E. Erzin, and A. M. Tekalp, "Audio-Visual Synchronization and Fusion using Canonical Correlation Analysis," *IEEE Transactions on Multimedia*, Vol. 9, No. 7, pp. 1396-1403, 2007.
- C. B. Akgül, B. Sankur, Y. Yemez, F. Schmitt, "Density-Based 3D Shape Descriptors", *EURASIP Journal on Applied Signal Processing*, Special Issue on Search and Retrieval of 3D Content and Associated Knowledge Extraction and Propagation, Vol. 2007, Article ID 32503, 16 pages, 2007.
- C. B. Akgül, F. Schmitt, B. Sankur, Y. Yemez, "Improving Efficiency of Density-Based Shape Descriptors for 3D Object Retrieval", *Lecture Notes in Computer Science (MIRAGE'07)*, Vol. 4418, pp. 330-340, 2007.
- E. Erzin, Y. Yemez, A. M. Tekalp, A. Erçil, H. Erdoğan, H. Abut, "Multimodal Person Identification for Human Vehicle Interaction," *IEEE Multimedia*, Vol.13 , No. 2 , pp. 18-31, April, 2006.
- H.E. Cetingul, Y. Yemez, E. Erzin, A. M. Tekalp, "Discriminative Analysis of Lip Motion Features for Speaker Identification and Speech-Reading," *IEEE Transactions on Image Processing*, Vol. 15, No. 10, pp. 2879-2891, 2006.
- H.E. Cetingul, E. Erzin, Y. Yemez, A. M. Tekalp, "Multimodal Speaker/Speech Recognition using Lip Motion, Lip Texture and Audio," *Signal Processing (Elsevier)*, Special Issue on Multimodal Human-Computer Interfaces, Vol. 86, No. 12, pp. 3549-3558, 2006.
- Y. Sahillioğlu and Y. Yemez, "A Surface Deformation Framework for 3D Shape Recovery," *Lecture Notes in Computer Science (MCRS'06)*, Vol. 4105, pp. 570-577, 2006.
- C. B. Akgül, B. Sankur, F. Schmitt and Y. Yemez, "Density-Based Shape Descriptors for 3D Object Retrieval," *Lecture Notes in Computer Science (MCRS'06)*, Vol. 4105, pp. 322-329, 2006.
- E. Erzin, Y. Yemez, A. M. Tekalp, "Multimodal speaker identification using an adaptive classifier cascade based on modality reliability," *IEEE Transactions on Multimedia*, Vol. 7, No. 5, pp. 840- 852, 2005.
- Y. Yemez and F. Schmitt, "3D reconstruction of real objects with high resolution shape and texture," *Image and Vision Computing*, Vol. 22, No. 13, pp. 1137-1153, 2004.
- Y. Yemez and F. Schmitt, "Multilevel Representation and Transmission of Real Objects with Progressive Octree Particles," *IEEE Trans. on Visualization and Computer Graphics*, Vol. 9, No. 4, pp. 551-569, October 2003.
- Y. Yemez, B. Sankur, E. Anarim, "A quadratic motion-based object-oriented video codec", *Signal Processing: Image Communication*, Vol. 15, No. 9, pp. 729-766, 2000.
- T. Aydin, Y. Yemez, E. Anarim, B. Sankur, "Multidirectional and multiscale edge detection via m-band wavelet transform", *IEEE Trans. on Image Processing*, Vol. 5, No. 9, pp. 1370-1376, September 1996.
- Y. Yemez, E. Anarim, and Y. Istefanopoulos, "Causal and semicausal AR image model identification using EM algorithm", *IEEE Trans. on Image Processing*, Vol. 2, No. 1, pp. 513-518, October 1993.

Book chapter

- E. Erzin, Y. Yemez, A. M. Tekalp, *DSP in mobile and vehicular systems*, Chapter: 16, "Joint Audio-Video Processing for Robust Biometric Speaker Identification in Car," Kluwer Academic Publishers, May 2004.
- H. E. Çetingül, E. Erzin, Y. Yemez, A. M. Tekalp, *Visual Speech Recognition: Lip Segmentation and Mapping*, "Multimodal Speaker Identification and Speech Reading using Discriminative Lip Motion Features," IGI Global, 2009.

Conference papers

- Y. Sahillioğlu and Y. Yemez, "3D Shape Correspondence by Isometry-Driven Greedy Optimization," *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, pp. 453 – 458, San Francisco, June 2010.
- E. Kalafatlar and Y. Yemez, "3D Articulated Shape Segmentation Using Motion Information," *Int. Conf. on Pattern Recognition (ICPR)*, Istanbul, August 2010.
- F. Ofli, E. Erzin, Y. Yemez, and A.M. Tekalp, "Multi-modal analysis of dance performances for music-driven choreography synthesis," *IEEE Int. Conf. on Acoustics, Speech, and Signal Processing (ICASSP)*, Dallas, USA, 2010.
- Y. Sahillioğlu and Y. Yemez, "Isometric 3D Shape Correspondence," *IEEE Signal Processing and Communications Applications (SIU)*, Diyarbakır, April 2010.
- C. Akgül, A. Axenopoulos, B. Bustos, M. Chaouch, P. Daras, H. Dutagaci, T. Furuya, A. Godil, S. Kreft, Z. Lian, T. Napoléon, A. Mademlis, R. Ohbuchi, P. L. Rosin, B. Sankur, T. Schreck, X. Sun, M. Tezuka, Y. Yemez, A. Verroust-Blondet and M. Walter, "SHREC 2009 – Generic Shape Retrieval Contest", *Proc. of the Eurographics Workshop on 3D Object Retrieval*, Munich, Germany, March 2009.
- H. Dutağacı, B. Sankur and Y. Yemez, "Subspace-based techniques for retrieval of general 3D models", *IEEE 17th Signal Processing and Communications Applications (SIU)*, Antalya, April 2009.
- S. C. Bilir and Y. Yemez, "Time Varying Surface Reconstruction from Multiview Video," *IEEE Int. Conf. on Shape Modeling and Applications, SMI'08*, New York, USA, June 2008.
- C. B. Akgül, B. Sankur, Y. Yemez, F. Schmitt, "Similarity Score Fusion by Ranking Risk Minimization for 3D Object Retrieval", *Eurographics Workshop on 3D Object Retrieval, Proc. of the Eurographics Workshop on 3D Object Retrieval*, Crete, Greece, April 2008.
- F. Ofli, E. Erzin, Y. Yemez, A. M. Tekalp, C. E. Erdem, A. T. Erdem, T. Abaci, M. K. Ozkan, "Unsupervised Dance Figure Analysis from Video for Dancing Avatar Animation", *IEEE Int. Conf. on Image Processing (ICIP'08)*, San Diego, California, U.S.A., October 2008.
- F. Ofli, C. Canton-Ferrer, J. Tilmann, Y. Demir, E. Bozkurt, Y. Yemez, E. Erzin, A. M. Tekalp, "Audio-Driven Human Body Motion Analysis and Synthesis," *IEEE Int. Conf. on Acoustics, Speech, and Signal Processing (ICASSP'08)*, pp. 2233 – 2236, Las Vegas, USA, April 2008.
- Y. Demir, E. Erzin, Y. Yemez, A. M. Tekalp, "Evaluation of Audio Features for Audio-Visual Analysis of Dance Figures," *European Signal Processing Conference (EUSIPCO'08)*, Lausanne, August 2008.
- C. B. Akgül, B. Sankur, Y. Yemez, "Statistical Score Fusion for 3D Object Retrieval", *IEEE 16th Signal Processing and Communications Applications (SIU)*, Didim, April 2008.
- S. C. Bilir and Y. Yemez, "Çok-Bakışlı Video Dizilerinden Zamanla Değişen Yüzey Geriçatımı", *IEEE 16th Signal Processing and Communications Applications (SIU)*, Didim, April 2008.

- F. Ofli, Y. Demir, C. Canton-Ferrer, J. Tilmanne, K. Balci, E. Bozkurt, İ. Kızıoğlu, Y. Yemez, E. Erzin, A. M. Tekalp, L. Akarun, A. T. Erdem, "Analysis and Synthesis of Multiview Audio-Visual Dance Figures", *IEEE 16th Signal Processing and Communications Applications (SIU)*, Didim, April 2008.
- F. Ofli, C. Canton-Ferrer, Y. Demir, K. Balci, J. Tilmanne, E. Bozkurt, I. Kizoglu, Y. Yemez, E. Erzin, A. M. Tekalp, L. Akarun, A. T. Erdem, "Audio-Driven Human Body Motion Analysis and Synthesis", *Proc. of the eINTERFACE'07: The SIMILAR NoE Summer Workshop on Multimodal Interfaces*, Istanbul, Turkey, July-August 2007.
- M.E. Sargin, E. Erzin, Y. Yemez, A. M. Tekalp, A. T. Erdem, C. Erdem, M. Ozkan, "Prosody-Driven Head-Gesture Animation," *IEEE Int. Conf. on Acoustics, Speech and Signal Processing*, pp. II-677 - II-680, Honolulu, USA, 2007.
- C. B. Akgul, B. Sankur, F. Schmitt, Y. Yemez, "Multivariate Density-Based 3D Shape Descriptors," *IEEE Int. Conf. on Shape Modeling and Applications, SMI'07*, pp. 3-12, Lyon, France, 2007.
- F. Ofli, Y. Demir, E. Erzin, Y. Yemez, and A. M. Tekalp, "Multicamera Audio-Visual Analysis of Dance Figures," *IEEE Int. Conf. on Multimedia and Expo ICME'07*, pp. 1703-1706, Beijing, China, 2007.
- C. B. Akgül, F. Schmitt, B. Sankur, Y. Yemez, "Multivariate Density-Based 3D Shape Descriptors", *Proceedings of SHREC'07*, Lyon, France, 2007.
- C. B. Akgül, F. Schmitt, B. Sankur, Y. Yemez, "Improving Efficiency of Density-Based Shape Descriptors for 3D Object Retrieval", *Computer Vision / Computer Graphics Collaboration Techniques (MIRAGE'07), Springer LNCS Series*, vol. 4418, pp. 330-340, INRIA Rocquencourt, France, 2007.
- F. Ofli, Y. Demir, E. Erzin, Y. Yemez, A. M. Tekalp, "Multicamera Audio-Visual Analysis of Dance Figures Using Segmented Body Model," *European Signal Processing Conference (EUSIPCO'07)*, Poznan, Poland, 2007.
- F. Ofli, E. Erzin, Y. Yemez, A. M. Tekalp, "Estimation and Analysis of Facial Animation Parameter Patterns," *IEEE Int. Conf. on Image Processing (ICIP'07)*, San Antonio, 2007.
- F. Ofli, Y. Demir, E. Erzin, Y. Yemez, and A. M. Tekalp, "Joint Correlation Analysis of Audio-Visual Dance Figures," *IEEE Signal Processing and Communications Applications SIU'07*, 2007.
- F. Ofli, E. Erzin, Y. Yemez, and A. M. Tekalp, "Estimation of Personalized Facial Gesture Patterns," *IEEE Signal Processing and Communications Applications SIU'07*, 2007.
- C. B. Akgul, B. Sankur, F. Schmitt, Y. Yemez, "Feature-Level and Descriptor-Level Information Fusion for Density-Based 3D Shape Descriptors," *IEEE Signal Processing and Communications Applications SIU'07*, 2007.
- M.E. Sargin, O. Aran, A. Karpov, F. Ofli, Y. Yasinnik, S. Wilson, E. Erzin, Y. Yemez and A.M. Tekalp "Combined Gesture-Speech Analysis and Speech Driven Gesture Synthesis," *IEEE Int. Conf. on Multimedia Expo ICME'06*, Toronto, 2006.
- M.E. Sargin, E. Erzin, Y. Yemez and A.M. Tekalp, "Multimodal Speaker Identification using Canonical Correlation Analysis," *ICASSP'06*, vol. I, pp. 613-616, May, Toulouse, France, 2006.
- C. B. Akgül, B. Sankur, Y. Yemez, F. Schmitt, "A Framework for Histogram-Induced 3D Descriptors", *Proc. of the 14th European Signal Processing Conference (EUSIPCO'06)*, Florence, Italy, September 4-8, 2006.
- Y. Sahillioğlu and Y. Yemez, "A Surface Deformation Framework for 3D Shape Recovery," *Lecture Notes in Computer Science (MCRS'06)*, Vol. 4105, pp. 570-577, 2006.
- C. B. Akgül, B. Sankur, F. Schmitt and Y. Yemez, "Density-Based Shape Descriptors for 3D Object Retrieval," *Lecture Notes in Computer Science (MCRS'06)*, Vol. 4105, pp. 322-329, 2006.

- H. Dutagaci, B. Sankur, Y.Yemez, "A comparison of data representation types, features types and fusion techniques for 3D face biometry", *14th European Signal Processing Conference EUSIPCO'06*, Florence, Italy, September 2006.
- H. Dutagaci, B. Sankur, Y.Yemez, "3D Face recognition by projection-based features", *SPIE Electronic Imaging Conference: Security, Steganography, and Watermarking of Multimedia Contents VIII*, pp. 15-19 January 2006, San Jose, USA.
- M.E. Sargin, E. Erzin, Y. Yemez, A.M. Tekalp, A.T. Erdem " Speech Driven 3D Head Gesture Synthesis," *IEEE 14th Signal Processing and Communications Applications (SIU)*, Antalya, Turkey, April 2006.
- H. Dutagaci, B. Sankur, Y. Yemez, "3D Face Recognition", *IEEE 14th Signal Processing and Communications Applications (SIU)*, Antalya, Turkey, April 2006.
- C. B. Akgül, B. Sankur, F. Schmitt, Y. Yemez, "A New Framework for 3D Shape Descriptors", *IEEE 14th Signal Processing and Communications Applications (SIU)*, Antalya, Turkey, April 2006.
- Y. Sahillioglu, Y.Yemez, V. Skala, "3D Shape Recovery and Tracking from Multi-Camera Video Sequences via Surface Deformation", *IEEE 14th Signal Processing and Communications Applications (SIU)*, Antalya, Turkey, April 2006.
- H. Dutağacı, B. Sankur, Y. Yemez, "Transform-based Methods for Indexing and Retrieval of 3D Objects", *Proceedings of Int. Conf. on 3D Digital Imaging and Modeling 3DIM*, Ottawa, October 2005.
- M.E. Sargin, E. Erzin, Y. Yemez, A.M. Tekalp "Lip Feature Extraction based on Audio-Visual Correlation," *EUSIPCO 2005*, Antalya, Turkey.
- B. Tari, Y. Yemez, Ö. Özkasap, R. Civanlar, " Progressive View-Dependent Transmission of 3D Models over Lossy Networks ", *EUSIPCO-2005*, Antalya, Turkey.
- H.E. Cetingul, Y. Yemez, E. Erzin, A. M. Tekalp "Robust Lip-Motion Features For Speaker Identification," *IEEE Int. Conf. on Acoustic, Speech and Signal Processing*, Philadelphia, March 2005.
- H.E. Cetingul, E. Erzin, Y. Yemez, A. M. Tekalp "Use of Lip Information for Robust Speaker Identification and Speech Recognition," *Biennial on DSP for In-Vehicle and Mobile Systems*, Sesimbra, Portugal, September 2-3, 2005.
- C. B. Akgül, B. Sankur, F. Schmitt, Y. Yemez, "3D Object Matching via Multivariate Shape Distributions", *IEEE 13th Signal Processing and Communications Applications (SIU)*, Kayseri, Turkey, May 2005.
- H. Dutağacı, B. Sankur, Y. Yemez, "3B Nesnelerin Endekslenmesi Ve Erişimi İçin Dönüşüm Tabanlı Yöntemler," *IEEE 13th Signal Processing and Communications Applications (SIU)*, Kayseri, Turkey, May 2005.
- M. E. Sargin, Y. Yemez, E. Erzin, A. M. Tekalp "Görsel-İşitsel İlişkiye Dayalı Dudak Öznitelik Çıkarımı," *IEEE 13th Signal Processing and Communications Applications (SIU)*, Kayseri, Turkey, May 2005.
- E. Çetingül, Y. Yemez, E. Erzin, A. M. Tekalp "Konuşmacı Tanıma İçin Karşılaştırmalı Dudak Devininin Analizi," *IEEE 13th Signal Processing and Communications Applications (SIU)*, Kayseri, Turkey, May 2005.
- E. Çetingül, Y. Yemez, E. Erzin, A. M. Tekalp, "Discriminative Lip-Motion Features for Biometric Speaker Identification", *IEEE Int. Conf. on Image Process. ICIP'2004*, Singapore, 2004.
- E. Çetingül, E. Erzin, Y. Yemez, and A. M. Tekalp, "On Optimal Selection of Lip-Motion Features for Speaker Identification", *IEEE International Workshop on Multimedia Signal Processing (MMSP04)*, September 2004, Siena, Italy.
- E. Erzin, Y. Yemez, A. Murat Tekalp, "Adaptive Classifier Cascade for Multimodal Speaker Identification," in *INTERSPEECH 2004 – ICSLP*, Korea.

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- E. Çetingül, Y. Yemez, E. Erzin, and A. M. Tekalp, "The Use of Lip-Motion For Biometric Speaker Identification", 12th IEEE Conference on Signal Processing, Communications and Applications (SIU04), April 2004, Kuşadası, Aydın, Turkey.
- A. Kanak, E. Erzin, Y. Yemez and A. M. Tekalp, "Joint Audio-Video Processing for Robust Biometric Speaker Identification in Car," *Workshop on DSP in Mobile and Vehicular Systems*, Nagoya, Japan, April 3-4, 2003.
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