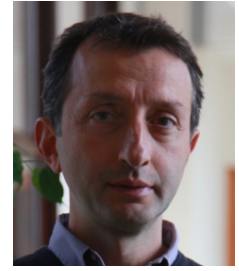


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Education

- 1992-1997 : **PhD**, Doctor of Philosophy in Electrical and Electronic Engineering
Boğaziçi University, Istanbul, Turkey
- 1989-1992 : **MS**, Master of Science in Electrical and Electronic Engineering
Boğaziçi University, Istanbul, Turkey
- 1985-1989 : **BS**, Bachelor of Science in Electrical and Electronic Engineering
Middle East Technical University, Ankara, Turkey
- 1982-1985 Ankara Fen Lisesi

Professional Experience

- 2000- present: Faculty Member at Koç University, Computer Engineering Dep., Istanbul, Turkey.
- October 1999 – June 2000: Postdoctoral Researcher at ENST (Télécom ParisTech), 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 at ENST (Télécom ParisTech), Signal and Image Processing Department, Paris, France.
- 1990-1997: Teaching assistant in Department of Mathematics, Boğaziçi University.
- 1993-1996: Researcher in BUSIM (Boğaziçi University Signal and Image Processing) Lab, Istanbul, Turkey.

Editorial Activities

- Associate Editor - Graphical Models, Elsevier
Associate Editor – The Visual Computer, Springer

Research Interests

Computer vision, deep learning, human-computer interaction, computer graphics, 3D modeling and reconstruction, image/video processing, multimedia signal processing, machine learning.

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.
- Programme of Integrated Actions (PIA), TUBITAK and French Embassy, Collaboration with ENST- Telecom Paris and Boğazici Un., 2004 - 2008.
- CAVeNC, Cross-Modal Analysis of Verbal and Non-verbal Communication, European COST, 2007-2011.
- JOKER, IUI - JOKE and Empathy of a Robot/ECA: Towards social and affective relations with a robot, European Chist-Era Project, 2013-2018.
- REGROUND - RELational Symbol GROUNDing Through Affordance Learning, European Chist-Era Project, 2016-2019.

Publications

Journal Papers

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- N. Hussain, E. Erzin, T. M. Sezgin and Y. Yemez, "Batch Recurrent Q-Learning for Backchannel Generation Towards Engaging Agents," *Int. Conf. on Affective Computing and Intelligent Interaction (ACII)*, Cambridge, United Kingdom, September, 2019.
- N. Hussain, E. Erzin, T. M. Sezgin and Y. Yemez, "Speech Driven Backchannel Generation using Deep Q-Network for Enhancing Engagement in Human-Robot Interaction," in *INTERSPEECH: Annual Conference of the International Speech Communication Association*, Graz, Austria, 2019.
- E. Unal, O. A. Can and Y. Yemez, "Visually Grounded Language Learning For Robot Navigation," *Workshop on Multimodal Understanding and Learning for Embodied Applications*, in conjunction with *ACM Multimedia Conference*, Nice, France, October, 2019.
- E. Unal, O. A. Can and Y. Yemez, "Learning to Follow Verbal Instructions with Visual Grounding," *IEEE Signal Processing and Communications Applications Conference (SIU)*, Sivas, Turkey, April, 2019.
- T. Numanoğlu, E. Erzin, Y. Yemez and T. M. Sezgin, "Head Nod Detection in Dyadic Conversations," *IEEE Signal Processing and Communications Applications Conference (SIU)*, Sivas, Turkey, April, 2019.
- L. Devillers et al., "Multifaceted engagement in social interaction with a machine: The JOKER Project", *IEEE International Conference on Automatic Face and Gesture Recognition*, China, 2018.
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- S. Zia, B. Yüksel, D. Yüret, Y. Yemez, "RGB-D Object Recognition Using Deep Convolutional Neural Networks," *ICCV Workshop - Geometry Meets Deep Learning*, Venice, Italy, Oct. 2017.
- E. Kıpçü and Y. Yemez, "Reliable Isometric Point Correspondence from Depth," *ICCV Workshop - Image-based Modeling of Articulated and Deformable Objects (IMADO)*, Venice, Italy, Oct. 2017.
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