

T. METIN SEZGIN

Koç University
College of Engineering
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RESEARCH INTERESTS

Enabling people to interact with computers in a more natural fashion by combining techniques from computer vision, machine learning, computer graphics, human-computer interaction and psychology. Specifically, developing efficient recognition technologies for intelligent pen-based human-computer interfaces, real-time sketch recognition, multimodal interfaces. Broad interests include intelligent interfaces, multimodal interfaces; applications of Pattern Recognition, Computer Vision and Machine Learning in real world problems.

EDUCATION

Massachusetts Institute of Technology, Cambridge MA

PhD in Electrical Engineering and Computer Science, May 2006 GPA: 5.0/5.0

Thesis Title: *Sketch Interpretation Using Multiscale Stochastic Models of Temporal Patterns*

Thesis Committee: *Prof. Randall Davis (advisor),
Prof. Leslie Pack Kaelbling,
Prof. Tomás Lozano-Pérez.*

Qualifier Committee: *Prof. Trevor Darrell,
Prof. Eric Demaine*

Minor Concentration: *Management in Engineering, Sloan School of Management*

Massachusetts Institute of Technology, Cambridge MA

Master of Science degree in Electrical Engineering and Computer Science, May 2001 GPA: 4.86/5.00

Thesis Advisor: *Prof. Randall Davis*

Thesis Title: *Feature Point Detection and Curve Approximation for Early Processing of Free-Hand Sketches*

Syracuse University, LC Smith College of Engineering and Computer Science, Syracuse NY

Bachelor of Science, summa cum laude with Honors in Computer Science May 99.

Ranked 1st in the College of Engineering. GPA: 3.99/4.00 – overall, 4.0/4.0 – core

Honors Thesis Title: *Logic Programming: A Dynamical Systems Approach*

Jamesville DeWitt High School, Syracuse, NY

Regents Diploma, May 95

PROFESSIONAL APPOINTMENTS & TITLES

Koç University, College of Engineering, Istanbul, Turkey

Associate Professor of Computer Engineering

05/16 – current

Yale University, Department of Computer Science, New Haven, CT

Visiting Fellow

09/16 – 09/17

Koç University, College of Engineering, Istanbul, Turkey

Assistant Professor of Computer Engineering

01/09 – 04/16

Higher Educational Council of Turkey

University Docent, Computer and Information Sciences

27/01/14

Harvard University, School of Engineering and Applied Sciences, Cambridge MA

Visiting Researcher, Intelligent Interactive Systems Group (appointment via Harvard CMES)

07/10 – 09/10

University of Cambridge, Computer Laboratory, Cambridge UK

Research Associate, Empathic Avatars Project

08/06 – 01/09

HONORS AND AWARDS

Honorable Mention Award, Top 5%, ACM CHI 2017 (2017)

Bronze Medal, Haptic Stylus Patent, International Inventions Fair (2016)

Research and Development Directorate Patent Inventor Plaque, Koç University (2015)

The Scientist of the Year Award 2014, Bilim Kahramanlari Dernegi (2014)

Outstanding Young Scientists Award, Turkish Academy of Sciences (2013)

Turk Telekom R&D Technology Transfer Appreciation Plaque (2012)

Turk Telekom Research Collaboration Award (2011)

Harvard – Koç Visiting Scholar (2010)

KOLT Learning and Innovation Grant (2010)

Research Assistantship, Massachusetts Institute of Technology (1999-2006)

Earl H. Devoe Prize for Outstanding Undergraduate Research, Syracuse University (1999)

Warren Semon Prize for Outstanding Achievement in Computer Science, Syracuse University (1999)

Syracuse University 1998-1999 Remembrance Scholar

Second place in the Martin and Phyllis Berman Competition for innovative Computer Programs (1998)

Third Place in the Martin and Phyllis Berman Competition for innovative Computer Programs (1997)

Member of NY β chapter of Tau Beta Pi Honor Society at Syracuse University

Member of Phi Kappa Phi Honor Society at Syracuse University

Honorary Scholarship from Syracuse University covering full undergraduate tuition (8 semesters)

Enrollment in the Upper Division Honors Program at Syracuse University.

L.C. Smith College of Eng. and Computer Science PRIDE 4.0 Club Certificate for Civic and Academic Excellence.

Dean's List (All semesters at Syracuse University)

ACADEMIC SYNOPSIS

Cumulative citations: 1283

Citations per author: 463

G-Index: 34

i10-index: 24

H-Index: 16

STUDENT SUPERVISION & POSTDOCS

Postdoctoral Research Associates

Yusuf Sahillioğlu Project Title:	IUI Lab, Koç University, Postdoctoral Research Associate iMotion, Intelligent Multimodal Motion Retrieval	01/14 – 10/14
Neşe Alyüz Çivitçi Project Title:	IUI Lab, Koç University, Postdoctoral Research Associate Formative Affective Interfaces	11/13 – 01/15
Başak Alper Project Title:	IUI Lab, Koç University, Postdoctoral Research Associate Intelligent Interfaces for eLearning	09/13 – 09/14

PhD Supervision – Alumni

Çağlar Tırkaz Dissertation Title:	Sabancı University, PhD in Electrical and Computer Engineering Sketch and Attribute Based Query Interfaces (co-supervised) Thesis work has received the Dr. Gürsel Sönmez Research Award, Only three awarded in the College of Engineering & Natural Sciences	09/09 – 05/15
Ayşe Küçükyılmaz Dissertation Title:	Koç University, PhD in Computational Sciences and Engineering Haptic Role Allocation and Intention Negotiation in Human-Robot Collaboration (co-supervised) Thesis work received the Koç University Academic Excellence Award, Only one awarded in the Graduate School of Engineering & Sciences	09/08 – 06/13
Sinan Tümen Dissertation Title:	Koç University, PhD in Electrical and Computer Engineering Learning Stroke Fragmentation and Sketch Segmentation	09/09 – 09/15

PhD Supervision – Ongoing

Emre Karaman Dissertation Title:	Koç University, PhD in Computer Engineering Feature Representation and Classification for Sketch Recognition	08/14 – current
Ferhat Çağan Dissertation Title:	Koç University, PhD in Computer Engineering Visualization of Big Data for e-Learning	08/14 – current
Bekir Türker Dissertation Title:	Koç University, PhD in Computer Engineering Affect Burst Detection and Recognition (co-supervised)	09/13 – current
Ezgi Senem Emgin Dissertation Title:	Koç University, PhD in Computational Science and Engineering Gesture Aware Haptic Displays (co-supervised)	01/12 – current
Çağla Çığ Dissertation Title:	Koç University, PhD in Computer Engineering Gaze-Aware Predictive Multimodal Interfaces	09/11 – current

MS Supervision – Alumni

Kemal Tuğrul Dissertation Title:	Koç University, M.Sc. in Computer Engineering Sketch Recognition with Few Examples	09/13 – 08/16
Şerike Çakmak Dissertation Title:	Koç University, M.Sc. in Computer Engineering Clustering Free-Form Sketch Scenes through Perceptual Similarity	09/13 – 08/16
Cansu Şen Dissertation Title:	Koç University, M.Sc. in Computer Engineering Semi-Supervised Multimodal Intelligent Content Translator	09/13 – 09/16

<i>Shabbir Marzban</i> Dissertation Title:	<i>Koç University, M.Sc. in Computer Engineering</i> <i>Affect Burst Detection and Recognition (co-supervised)</i>	<i>09/13 – 08/15</i>
<i>Banuçiçek Gürcüoğlu</i> Dissertation Title:	<i>Koç University, M.Sc. in Computer Engineering</i> <i>Learning People's Perception of Messiness for Hand-drawn Sketches</i>	<i>09/11 – 09/14</i>
<i>Atakan Arasan</i> Dissertation Title:	<i>Koç University, M.Sc. in Computer Engineering</i> <i>Haptic Stylus with Inertial and Vibro Tactile Feedback (co-supervised)</i>	<i>09/11 – 05/14</i>
<i>Özem Kalay</i> Dissertation Title:	<i>Koç University, M.Sc. in Computer Engineering</i> <i>Detection of Recognition Errors from Eye Gaze Behavior in Sketch Recognition Interfaces</i>	<i>09/11 – 08/14</i>
<i>Burak Özen</i> Dissertation Title:	<i>Koç University, M.Sc. in Computer Engineering</i> <i>A Simple Resource-Aware Approach to Sketch Recognition via Style Identification</i>	<i>09/11 – 06/13</i>
<i>Erelcan Yanık</i> Dissertation Title:	<i>Koç University, M.Sc. in Computer Engineering</i> <i>Active Learning for Sketch Recognition</i>	<i>09/11 – 06/13</i>
<i>Ö. Özgür Ögüz</i> Dissertation Title:	<i>Koç University, M.Sc. in Electrical and Computer Engineering</i> <i>A Negotiation Model for Affective Visuo-Haptic Communication Between a Human Operator and a Machine (co-supervised)</i>	<i>09/08 – 06/10</i>

MS Supervision – Ongoing

<i>Zana Buçınca</i> Dissertation Title:	<i>Koç University, M.Sc. in Computer Engineering</i> <i>Affect Bursts in Human-Robot Interaction</i>	<i>08/16 – current</i>
<i>Doğancan Kebude</i> Dissertation Title:	<i>Koç University, M.Sc. in Computer Engineering</i> <i>Intelligent Interfaces for Creative Industries</i>	<i>08/16 – current</i>
<i>Ozan Can Altıok</i> Dissertation Title:	<i>Koç University, M.Sc. in Computer Engineering</i> <i>Multimodal Interfaces for Motion Retrieval</i>	<i>08/15 – current</i>
<i>Kurmanbek Kaiyrbekov</i> Dissertation Title:	<i>Koç University, M.Sc. in Computer Engineering</i> <i>Formative Assessment</i>	<i>08/15 – current</i>

Undergraduate Supervision

<i>Ahmet Bağlan</i> Project Title:	<i>Koç University, Summer Research Student, Boğaziçi University</i> <i>Sketch Auto-Completion by Grouping Classes</i>	<i>07/16 – 09/16</i>
<i>Amirhossein Sayyafan</i> Project Title:	<i>Koç University, Summer Research Student, Sharif U. of Technology</i> <i>Demonstration of Sketch Auto-Completion in Real Life</i>	<i>07/16 – 09/16</i>
<i>Arda İçmez</i> Project Title:	<i>Koç University, Summer Research Student, Galatasaray University</i> <i>Acceleration of Sketch Auto-Completion using Parallel Computing</i>	<i>07/16 – 09/16</i>
<i>Elif Yağmur Eyrice</i> Project Title:	<i>Koç University, Summer Research Student, Bilkent University</i> <i>Demonstration of Sketch Auto-Completion in Real Life</i>	<i>07/16 – 09/16</i>
<i>Semih Günel</i> Project Title:	<i>Koç University, Summer Research Student, Bilkent University</i> <i>Algorithm Optimization in Sketch Auto-Completion</i>	<i>07/16 – 09/16</i>
<i>Tuğrulcan Elmas</i> Project Title:	<i>Koç University, Summer Research Student, Bilkent University</i> <i>Using Sketch Auto-Completion in Video Retrieval Engines</i>	<i>07/16 – 09/16</i>
<i>Zahra Montazeri</i> Project Title:	<i>Koç University, Summer Research Student, Sharif U. of Technology</i> <i>Visualization of Big Data for e-Learning</i>	<i>06/14 – 08/14</i>

<i>Sardar Bonabi</i> Project Title:	<i>Koç University, Summer Research Student, Sharif U. of Technology</i> <i>Efficient Annotation for Semi-Automated Content Translation</i>	<i>06/14 – 08/14</i>
<i>Kemal Tuğrul</i> Project Title:	<i>Koç University, Summer Research Student, IEU</i> <i>Effective Data Collection Strategies for Sketch-Based Interfaces</i>	<i>06/12 – 08/12</i>
<i>Anıl Ulutürk</i> Project Title:	<i>Koç University, Summer Research Student, METU</i> <i>A Multimodal Question Authoring Tool for Interactive Education</i>	<i>06/12 – 08/12</i>
<i>Zeynep Mavuş</i> Project Title:	<i>Koç University, Summer Research Student, METU</i> <i>Pen-Based Intelligent Interactive Geometry Tutor</i>	<i>06/12 – 08/12</i>
<i>Mustafa Tülü</i> Project Title:	<i>Koç University, Summer Research Student, Gaziantep U.</i> <i>Fixtures for Ambient Traffic-Density Signage</i>	<i>06/12 – 08/12</i>
<i>Buğra Akyıldız</i> Project Title:	<i>Koç University, Summer Research Student, Bilkent University</i> <i>Sketch-Based Retrieval</i>	<i>06/11 – 08/11</i>
<i>Sasa Kostadinovic</i> Project Title:	<i>Koç University, IEASTE Exchange Student, University of Nis</i> <i>Web-Services for Sketch Recognition</i>	<i>06/11 – 08/11</i>
<i>Tuğsad Karaduman</i> Project Title:	<i>Koç University, Summer Research Student</i> <i>Interactive Animation of Graph Algorithms</i>	<i>02/11 – 06/11</i>
<i>Furkan Bayraktar</i> Project Title:	<i>Koç University, Undergraduate Research Student</i> <i>Pen-Based Interfaces for Virtual Physics</i>	<i>06/11 – 06/12</i>
<i>Ozan Okumuşoğlu</i> Project Title:	<i>Koç University, Undergraduate Research Student</i> <i>Pen-Based Interfaces for Virtual Physics</i>	<i>06/11 – 06/12</i>
<i>Aral Can Kaymaz</i> Project Title:	<i>Koç University, Undergraduate Research Student</i> <i>Multimodal Storyboarding for Virtual Cinematography</i>	<i>06/11 – 06/12</i>
<i>Atakan Arasan</i> Project Title:	<i>Koç University, Summer Research Student</i> <i>Vibro-Tactile Stylus</i>	<i>06/10 – 09/10</i>
<i>Emrah Şamdan</i> Project Title:	<i>Koç University, Summer Research Student</i> <i>Robust Primitive Extraction for Free-Hand Strokes</i>	<i>06/10 – 09/10</i>
<i>İsmail Ulutürk</i> Project Title:	<i>Koç University, Summer Research Student</i> <i>2D Sketch Recognition</i>	<i>06/10 – 09/10</i>
<i>Relja Arandjelovic</i> Project Title:	<i>University of Cambridge, Summer UROP</i> <i>Information Fusion for Sketch Recognition</i>	<i>06/08 – 08/08</i>
<i>Yuan Cao Zhang</i> Project Title:	<i>University of Cambridge, Summer UROP</i> <i>Web-based Emotion Labeling Game</i>	<i>06/08 – 09/08</i>
<i>Alexander Blessing</i> Project Title:	<i>University of Cambridge, Summer UROP</i> <i>A Multimodal Scenario Editor for Driving Simulators</i>	<i>06/08 – 09/08</i>
<i>Dingli Zuo</i> Project Title:	<i>University of Cambridge, Summer UROP</i> <i>An Efficient Framework for Video Annotation</i>	<i>06/07 – 09/07</i>

Part II Supervision (University of Cambridge)

<i>Andy Prichard</i> <i>Project Title:</i>	<i>University of Cambridge, Part II Project, Undergraduate Thesis</i> <i>Polygonal Mesh Reconstruction from Medical Images</i>	<i>09/08 – 05/09</i>
<i>Devan Mahadeshwar</i> <i>Thesis Title:</i>	<i>University of Cambridge, Part II Project, Undergraduate Thesis</i> <i>Laser Pointer Interaction with Projected Computer Displays</i>	<i>09/07 – 05/08</i>
<i>Alison Shaw</i> <i>Thesis Title:</i>	<i>University of Cambridge, Part II Project, Undergraduate Thesis</i> <i>Modeling Using Dynamics</i>	<i>09/07 – 05/08</i>
<i>Phillip M. Bielby</i> <i>Thesis Title:</i>	<i>University of Cambridge, Part II Project, Undergraduate Thesis</i> <i>Face-tracking via Vicon Motion Capture System & Multiple Cameras</i>	<i>09/06 – 05/07</i>
<i>Sergei Trofimov</i> <i>Thesis Title:</i>	<i>University of Cambridge, Part II Project, Undergraduate Thesis</i> <i>A Multimodal Interface for Creating Graphical Models</i>	<i>09/06 – 05/07</i>
<i>Gareth P. Bailey</i> <i>Thesis Title:</i>	<i>University of Cambridge, Part II Project, Undergraduate Thesis</i> <i>Directly Controlled Animation Using the Vicon System</i>	<i>09/06 – 05/07</i>
<i>Rebecca Mahoney</i> <i>Thesis Title:</i>	<i>University of Cambridge, Part II Project, Undergraduate Thesis</i> <i>An Online Test Environment: Evaluating the Use of Affective Inference in the Thinking Skills Assessment</i>	<i>09/06 – 05/07</i>

SCHOLARLY WORK

Book Chapters

1. Kūçükylmaz, S. O. Ögüz, **T. M. Sezgin**, Ç. Başdoğan. **Improving Human-computer Cooperation through Haptic Role Exchange and Negotiation**, Immersive Multimodal Interactive Presence: Person-Object, Person-Object-Person and Person-Person Scenarios, *Springer Series on Touch and Haptic Systems, Book Chapter*. (2012).
2. H.A. Blair, F. Dushin, D.W. Jakel, A.J. Rivera and **T. M. Sezgin**. **Continuous Models of Computation for Logic Programs**. Book chapter in *The Logic Programming Paradigm: A 25-Year Perspective, Springer Series in Artificial Intelligence, Book Chapter*. (1999).

Edited Journal Issues

1. **T. M. Sezgin**, *Computers and Graphics, Special Section on SBIM, CAe, NPAR – Expressive 2015, Volume 59, October 2016, Guest Editor*, (2016).
2. T. Isenberg, P. Asente, J. Collomosse, **T. M. Sezgin**, *Computers and Graphics, Computational Aesthetics, Non-Photorealistic Animation and Rendering, and Sketch Based Interfaces and Modeling, Special Issue, October 2012, Guest Editor*, (2012).

Refereed Publications

1. W. Shi, Z. Wang, **T. M. Sezgin**, J. Dorsey, and H. Rushmeier, **Material Design in Augmented Reality with In-Situ Visual Feedback**, *Proceedings of the Eurographics Symposium on Rendering, Forthcoming, Helsinki, Finland, June 19-21, (2017)*.
2. Y. Sahillioglu, **T. M. Sezgin**, **Sketch-based Articulated 3D Shape Retrieval**, *IEEE Computer Graphics and Applications, Forthcoming, (2017)*.
3. B. Alper, N. Riche, F. Chevalier, J. Boy, **T. M. Sezgin**, **Visualization Literacy at Elementary School**. In *Proceedings of ACM CHI 2017, Conference on Human Factors in Computing Systems, Denver CO, May 6-11, (2017)*. **CHI 2017 Honorable Mention Award**
4. O. Altıok, K. T. Yeşilbek, **T. M. Sezgin**, **What Auto Completion Tells Us About Sketch Recognition**. In *Proceedings of Expressive 2016, Posters, Artworks, and Bridging Papers, the Eurographics Association, Lisbon, Portugal, May 7-9, (2016)*.
5. Ş. Çakmak, **T. M. Sezgin**, **Building a Gold Standard for Perceptual Sketch Similarity** . In *Proceedings of Expressive 2016, Posters, Artworks, and Bridging Papers, the Eurographics Association, Lisbon, Portugal, May 7-9, (2016)*.
6. Ç. Çığ, **T. M. Sezgin**, **Gaze-Based Biometric Authentication: Hand-Eye Coordination Patterns as a Biometric Trait**. In *Proceedings of Expressive 2016, Posters, Artworks, and Bridging Papers, the Eurographics Association, Lisbon, Portugal, May 7-9, (2016)*.
7. C. Tanase, I. Giangreco, L. Rossetto, H. Schuldt, O. Seddati, S. Dupont, O. C. Altıok, **T. M. Sezgin**, **Semantic Sketch-Based Video Retrieval with Autocompletion**, *Proceedings of the 21st International Conference on Intelligent User Interfaces (IUI 2016), ACM, March 7–10, 2016, Sonoma, CA, USA, (2016)*.
8. L. Rossetto, I. Giangreco, S. Heller, C. Tanase, H. Schuldt, O. Seddati, S. Dupont, **T. M. Sezgin**, O. C. Altıok, Y. Sahillioglu, **IMOTION - Searching for Video Sequences Using Multi-Shot Sketch Queries**, *Proceedings of the 22nd International Conference on MultiMedia Modeling, Miami, Jan 4-6, (2016)*.
9. L. Rossetto, I. Giangreco, C. Tanase, H. Schuldt, O. Seddati, S. Dupont, **T. M. Sezgin**, Y. Sahillioglu, **iAutoMotion - an Autonomous Content-based Video Retrieval Engine**, *Proceedings of the 22nd International Conference on MultiMedia Modeling, Miami, Jan 4-6, (2016)*.

10. Arasan, Ç. Basdogan, and T. M. Sezgin. **HaptiStylus: A Novel Stylus Capable of Displaying Movement and Rotational Torque Effects.** *IEEE Computer Graphics and Applications*, vol. 36, no. 1, pp. 30-41, Jan.-Feb. 2016, (2016).
11. E. Yanik, T. M. Sezgin, **Active learning for sketch recognition.** *Computers & Graphics*, Vol. 52, Issue C, Nov 2015, pp. 93-105, (2015).
12. L. Devillers, S. Rosset, G. Dubuisson Duplessis, M. A. Sehili, L. Béchade, A. Delaborde, C. Gossart, V. Letard, F. Yang, Y. Yemez, B. B. Türker, M. Sezgin, K. El Haddad, S. Dupont, D. Luzzati, Y. Estève, E. Gilmartin, N. Campbell, **Multimodal Data Collection of Human-Robot Humorous Interactions in the JOKER Project,** *Proceedings of the 6th International Conference on Affective Computing and Intelligent Interaction*, Xi'an, China, September 21-24, (2015).
13. Ç. Tırkaz, J. Eisenstein, B. Yanikoğlu, T. M. Sezgin. **Identifying Visual Attributes for Object Recognition from Text and Taxonomy.** *Computer Vision and Image Understanding*, Volume 137, August 2015, pp. 12-23, (2015).
14. C. E. Madan, A. Küçükylmaz, T. M. Sezgin, and Ç. Basdogan. **Recognition of Haptic Interaction Patterns in Dyadic Joint Object Manipulation.** *IEEE Transactions on Haptics*, vol. 8, no. 1, pp. 54-66, (2015).
15. L. Rossetto, I. Giangreco, H. Schuldt, S. Dupont, O. Seddati, T. M. Sezgin, Y. Sahillioglu, **IMOTION: A Content-based Video Retrieval Engine.** *Proceedings of the 21st International Conference on MultiMedia Modeling*, Sydney, Jan 5-7, (2015).
16. Ç. Çığ, T. M. Sezgin, **Real-time activity prediction: a gaze-based approach for early recognition of pen-based interaction tasks.** *In Proceedings of the workshop on Sketch-Based Interfaces and Modeling (SBIM '15).* Eurographics Association, Aire-la-Ville, Switzerland, Switzerland, 59-65, (2015).
17. K. T. Yesilbek, C. Sen, S. Cakmak, and T. M. Sezgin, **SVM-based sketch recognition: which hyperparameter interval to try?.** *In Proceedings of the workshop on Sketch-Based Interfaces and Modeling (SBIM '15).* Eurographics Association, Aire-la-Ville, Switzerland, Switzerland, 117-121, (2015).
18. B. Schuller, E. Marchi, S. Baron-Cohen, A. Lassalle, H. O'Reilly, D. Pigat, P. Robinson, I. Davies, T. Baltrusaitis, M. Mahmoud, O. Golan, S. Fridenson, S. Tal, S. Newman, N. Meir, R. Shillo, A. Camurri, S. P., A. Staglianò, S. Bölte, D. Lundqvist, S. Berggren, A. Baranger, N. Sullings, T. M. Sezgin, N. Alyuz, A. Rynkiewicz, K. Ptaszek, K. Ligmann, **Recent developments and results of ASC-Inclusion: An Integrated Internet-Based Environment for Social Inclusion of Children with Autism Spectrum Conditions,** *Proc. 3rd International Workshop on Digital Games for Empowerment and Inclusion (IDGEI 2015) held in conjunction with the 20th International Conference on Intelligent User Interfaces (IUI 2015)*, ACM, Atlanta, US, 29.03-01.04.2015.
19. Ç. Çığ, T. M. Sezgin, **Gaze-Based Virtual Task Predictor.** *Proceedings of International Conference on Multimodal Interfaces, Workshop Eye Gaze in Intelligent Human Machine Interaction: Eye-Gaze and Multimodality*, Istanbul, Turkey, November 12-16, (2014).
20. Ç. Çığ, T. M. Sezgin, **Gaze-Based Prediction of Pen-Based Virtual Interaction Tasks.** *International Journal of Human-Computer Studies*, Volume 73, Pages 91–106, (2014).
21. F. Sezgin, T. M. Sezgin, **Finding the Best Portable Congruential Random Number Generators.** *Computer Physics Communications*, Volume 184, Issue 8, p. 1889-1897, (2013).
22. Arasan, C. Başdoğan, T. M. Sezgin, **Haptic Stylus with Inertial and Vibro-Tactile Feedback.** *Proceedings of World Haptics Conference*, (2013).
23. R. S. Tümen, T. M. Sezgin, **DPFrag: A Trainable Stroke Fragmentation Framework based on Dynamic Programming.** *IEEE Computer Graphics and Applications*, Sept.-Oct. 2013, Vol. 33 no. 5), pp. 59-67, (2013).
24. Küçükylmaz, T. M. Sezgin, Ç. Başdoğan, **Intention Recognition for Dynamic Role Exchange in Haptic Collaboration.** *IEEE Transactions on Haptics*, vol. 6, no. 1, pp. 58-68, (2013).

25. Mörtl, M. Lawitzky, A. Küçükylmaz, **T. M. Sezgin**, Ç. Başdoğan, S. Hirche, **The Role of Roles: Physical Cooperation between Humans and Robots**. *International Journal of Robotics Research*, November 2012; Vol. 31, No. 13, (2012).
26. Ç. Tırkaz, B. Yanıkoğlu, **T. M. Sezgin**, **Memory Conscious Sketched Symbol Recognition**. *21st International Conference on Pattern Recognition*, Tsukuba Science City, Japan, November 11-15, (2012).
27. S. Ö. Ögüz, A. Küçükylmaz, **T. M. Sezgin**, Ç. Başdoğan, **Supporting Negotiation Behavior in Haptics-Enabled Human-Computer Interfaces**. *IEEE Transactions on Haptics*, Vol.: 5, Issue: 3, Pages: 274-284, 3rd Quarter., (2012).
28. T. Isenberg, P. Asente, J. Collomosse, **T. M. Sezgin**, **Special section on the 2011 joint symposium on computational aesthetics (CAe), non-photorealistic animation and rendering (NPAR), and sketch-based interfaces and modeling (SBIM)**. *Computers & Graphics*, Volume 36, Issue 6, Pages A3–A5, October 2012.
29. Ç. Tırkaz, B. Yanıkoğlu, **T. M. Sezgin**, **Sketched Symbol Recognition with Auto Completion**. *Pattern Recognition*, vol 45, issue 11, pp 3926-3937 (2012).
30. Küçükylmaz, **T. M. Sezgin**, Ç. Başdoğan, **Physical Communication of Intent: A Haptic Negotiation Framework for Human-Robot Interaction**. *IEEE HRI: Workshop on Advances in Tactile Sensing and Touch based Human-Robot Interaction*, Boston, MA, March 5, (2012).
31. Ç. Tırkaz, B. Yanıkoğlu, **T. M. Sezgin**, **Sketched Symbol Recognition with Few Examples Using Particle Filtering**. *ACM Symposium on Sketch Based Interfaces and Modeling*, Vancouver, Canada, August 5-7, (2011).
32. Kucukyilmaz, **T. M. Sezgin**, C. Basdogan, **Conveying Intentions through Haptics in Human-Computer Collaboration**. *IEEE World Haptics Conference*, Istanbul, Turkey, June 22-24, (2011).
33. R. Arandjelovic, **T. M. Sezgin**, **Sketch recognition by fusion of temporal and image-based features**. *Pattern Recognition*, vol: 44, issue: 6, pp 1225-1234, (2011).
34. S. Afzal, **T. M. Sezgin**, P. Robinson, **Decoding Emotions from Facial Animations**. *ACM/SSPNET 2nd International Symposium On Facial Analysis And Animation*, Edinburgh, United Kingdom, October 21, (2010).
35. Y. Gao, Q. Zhao, A. Hao, **T. M. Sezgin**, N. A. Dodgson, **Automatic Construction of 3D Animatable Facial Avatars**. *Computer Animation and Virtual Worlds*, Vol:21, Issue 3-4, pp 343-354, (2010).
36. R. S. Tumen, M. E. Acer, **T.M. Sezgin**, **Feature Extraction and Classifier Combination for Image-based Sketch Recognition**. *ACM Symposium on Sketch Based Interfaces and Modeling*, Annecy, France, June 7-10, (2010).
37. S. O. Oguz, A. Kucukyilmaz, **M. T. Sezgin**, C. Basdogan, **Haptic Negotiation and Role Exchange for Collaboration in Virtual Environments**. *IEEE Haptics Symposium*, Waltham, Massachusetts, USA, March 25-26, (2010).
38. **T. M. Sezgin**, I. Davies, P. Robinson, **Multimodal Inference for Driver-vehicle Interaction**. *International Conference on Multimodal Interfaces*, Cambridge, MA, November 2-6, (2009).
39. S. Afzal, **T. M. Sezgin**, Y. Gao, P. Robinson, **Perception of Emotional Expressions through Facial Feature Points**. *IEEE International Conference on Affective Computing and Intelligent Interaction*, Amsterdam, Netherlands, September 10-11, (2009).
40. Y. Gao, **T. M. Sezgin**, N. Dodgson., **Automatic Construction of 3D Animatable Facial Models**. *International Conference on Computer Animation and Social Agents*, Amsterdam, Netherlands, June 17-19, (2009).

41. **T. M. Sezgin, I. Davies, P. Robinson, Multimodal Inference for Driver-Vehicle Interaction.** *Workshop on Multimodal Interfaces for Automotive Applications, International Conference on Intelligent User Interfaces, Sanibel, Florida, USA, February (2009).*
42. *Blessing, T. M. Sezgin, R. Arandjelovic, P. Robinson, A Multimodal Interface for Road Design.* *Workshop on Sketch Recognition, International Conference on Intelligent User Interfaces, Sanibel, Florida, USA, Feb. 8, (2009).*
43. **T. M. Sezgin and R. Davis, Sketch Recognition in Interspersed Drawings Using Time-Based Graphical Models.** *Computers & Graphics Journal, Volume 32 , Issue 5, pp. 500-510 (2008).*
44. **M. Altınel, E. Arpalı, T. M. Sezgin, F. Sezgin, F. Gönenç, A. Yazıcıoğlu, A New Logistic Regression Based Nomogram Developed For Predicting Prostate Biopsy Outcomes in The Turkish Population.** *20th Congress of the Turkish Urology Association, Antalya, Turkey, November 1-6 (2008).*
45. *P. Biswas, T. M. Sezgin and P. Robinson, Perception Model for People with Visual Impairments. Proc. of the 10th International Conf. on Visual Information Systems (LNCS 5188), Salerno, Italy, September 11-12, (2008).*
46. **T. M. Sezgin, T. Stahovich, and R. Davis. Sketch Based Interfaces: Early Processing for Sketch Understanding.** *In ACM SIGGRAPH 2007 courses (SIGGRAPH '07). ACM, New York, NY, USA, Article 37 (2007).*
47. **T. M. Sezgin and P. Robinson, Affective Video Data Collection Using an Automobile Simulator.** *Second International Conf. on Affective Computing and Intelligent Interaction, Lisbon, Portugal, September 12-14, (2007).*
48. **X Pan, M Gillies, T. M. Sezgin, C. Loscos, Expressing Complex Mental States Through Facial Expressions.** *2nd International Conf. on Affective Computing and Intelligent Interaction, Lisbon, Portugal, Sept. 12-14, (2007).*
49. **T. M. Sezgin and R. Davis. Temporal Sketch Recognition in Interspersed Drawings.** *Fourth Eurographics Workshop on Sketch-Based Interfaces and Modeling, University of California, Riverside, CA, August 2-3, (2007).*
50. **T. M. Sezgin and R. Davis. Sketch Interpretation Using Multiscale Models of Temporal Patterns.** *IEEE Computer Graphics & Applications Journal, Volume: 27, Issue: 1, pp. 28-37. (2007).*
51. **H. Dibeklioglu, T. M. Sezgin, E. Ozcan. A Recognizer for Free-Hand Graph Drawings.** *International Workshop on Pen-Based Learning Technologies, Catania, Italy, May 24-25 (2007).*
52. **T. M. Sezgin. Overview of Recent Work in Pen-Centric Computing.** *Invited Workshop on Pen-Centric Computing, Providence RI, March 26-28 (2007).*
53. **F. Sezgin and T. M. Sezgin. On the Statistical Analysis of Feigenbaum Constants.** *Journal of the Franklin Institute, vol. 343, pp. 756-758 (2006).*
54. **T. M. Sezgin. Sketch Interpretation Using Multiscale Models of Temporal Patterns.** *In NESCAI'06 Northeast Student Colloquium on Artificial Intelligence., Ithaca NY, April 28-29 (2006).*
55. **T. M. Sezgin, T. Stahovich, and R. Davis. Sketch Based Interfaces: Early Processing for Sketch Understanding.** *In ACM SIGGRAPH 2006 courses (SIGGRAPH '06). ACM, New York, NY, USA, Article 22 (2006).*
56. **T. M. Sezgin and R. Davis. HMM-Based Efficient Sketch Recognition.** *In Proceedings of the International Conference on Intelligent User Interfaces (IUI'05), San Diego, CA. (2005).*
57. **T. M. Sezgin and R. Davis. Handling Overtraced Strokes in Hand-Drawn Sketches.** *In Proceedings of the AAAI Spring Symposium Series: Making Pen-Based Interaction Intelligent and Natural, Washington DC, (2004).*

58. **T. M. Sezgin and R. Davis. Scale-space Based Feature Point Detection for Digital Ink.** In *Proceedings of the AAAI Spring Symposium Series: Making Pen-Based Interaction Intelligent and Natural*, Washington DC, (2004).
59. **T. M. Sezgin, T. Stahovich, and R. Davis. Sketch Based Interfaces: Early Processing for Sketch Understanding.** *ACM International Conf. Proc., Vol. 15. Perceptive User Interfaces*, Orlando FL. (2001).

Abstracts and Technical Reports

1. **Bahar B., Barla I, Boymul Ö., Dicle Ç., Erol B., Saraçlar M., Sezgin T. M., Zelezny M., Mobile-Phone Based Gesture Recognition.** In *Proceedings of eNTERFACE'07, The Summer Workshop on Multimodal Interfaces*, Istanbul, Turkey (2007).
2. **Savran, A., Celiktutan, O., Akyol, A., Trojanova, J., Dibeklioglu, H., Esenlik, S., Bozkurt, N., Demirkir, C., Akagunduz, E., Caliskan, K., Alyuz, N., Sankur, B., Ulusoy, I., Akarun, L., and Sezgin, T. M., 3D Face Recognition Performance Under Adversarial Conditions.** In *Proceedings of eNTERFACE'07, The Summer Workshop on Multimodal Interfaces*, Istanbul, Turkey (2007).
3. **T. M. Sezgin and R. Davis. Modeling Sketching as a Dynamic Process.** In *Proceedings of CSAIL Student Workshop '05 Gloucester, MA* (2005).
4. **T. M. Sezgin and R. Davis. Efficient search space exploration for sketch recognition.** In *MIT Computer Science and Artificial Intelligence Laboratory Annual Research Abstract*. (2004).
5. **T. M. Sezgin and R. Davis. Early Sketch Processing with Application in HMM Based Sketch Recognition.** In *MIT Computer Science and Artificial Intelligence Laboratory Technical Report AIM-2004-016*, (2004).
6. **T. M. Sezgin. Recognition efficiency issues for freehand sketches.** *Proceedings of the MIT Student Oxygen Workshop*. Gloucester, MA. (2003).
7. **R. Davis, A. Adler, C. Alvarado, T. Hammond, R. Hitchcock, T. M. Sezgin, and O. Veselova. Designs for the Future.** In *MIT Artificial Intelligence Laboratory Annual Abstract*. (2002).
8. **T. M. Sezgin and R. Davis. Generating Domain Specific Sketch Recognizers from Object Descriptions.** In *MIT Artificial Intelligence Laboratory Annual Abstract*. (2002).
9. **C. Alvarado, T. M. Sezgin, D. Scott, T. Hammond, Z. Kasheff, M. Oltmans, and R. Davis. A Framework for Multi-Domain Sketch Recognition.** In *MIT Artificial Intelligence Laboratory Annual Abstract*. (2001).
10. **T. M. Sezgin and R. Davis. Scale-space Based Feature Point Detection for Noisy Digital Curves.** In *MIT Artificial Intelligence Laboratory Annual Abstract*. (2001).

PATENTS & INVENTION DISCLOSURES

Patent applications

European Patent Application,

T. M. Sezgin, C. Şen, Semi-Automatic Web Page Content Retargeting System,
PCT/EP2015/067681, European Patent Office, July 2015.

European Patent Application,

T. M. Sezgin, Ö. Kalay, Gaze-Based Detection of Intention to Fix Misrecognitions,
PCT/TR2015/00015, European Patent Office, March 2015.

European Patent Application, Passed Preliminary PCT Examination

T. M. Sezgin, Ç. Çiğ, Gaze-Based Mode Inference for Pen-Based Interaction,
PCT/TR2014/00189, European Patent Office, May 2014.

European Patent Application,

T. M. Sezgin, C. Başdoğan, A. Arasan, A Stylus (Vibrotactile Stylus),
PCT/EP2013/057748, European Patent Office, April 2013.

Invention Disclosures

Under review, Ç. Çiğ, **T. M. Sezgin**, *BBF # 2015.6.X*

Koç University, Research, Project Development and Technology Transfer Directorate

Semi-Automatic Web Page Content Retargeting System, C. Şen, **T. M. Sezgin**, *BBF # 2014.10.X*

Koç University, Research, Project Development and Technology Transfer Directorate

Gaze-Based Detection of Intention to Fix Misrecognitions, O. Kalay., **T. M. Sezgin**, *BBF # 2014.10.X*

Koç University, Research, Project Development and Technology Transfer Directorate

Gaze-Based Mode Inference for Pen-Based Interaction, Ç. Çiğ, **T. M. Sezgin**, *BBF # 2013.03.002*

Koç University, Research, Project Development and Technology Transfer Directorate

Haptic Stylus Having Inertial & Vibro-Tactile Feedback, A. Arasan, Ç. Başdoğan, **T. M. Sezgin**, *BBF # 2012.10.X*

Koç University, Research, Project Development and Technology Transfer Directorate

Auto-Completion in Sketch Recognition, **T. M. Sezgin**, B. Yanıkoğlu, Ç. Tırkaz, *BBF # 2011.03.X*

Koç University, Research, Project Development and Technology Transfer Directorate

Recognition and Fragmentation of Hand-Drawn Curves, **T. M. Sezgin**, S. Tümen, *BBF # 2010.08.003*

Koç University, Research, Project Development and Technology Transfer Directorate

GRANTS

-
- Source:** *European Commission STREP, FP7-ICT-2013-10, ICT-2013.11.4*
Title: *Internet-Based Environment for Social Inclusion of Children with Autism Spect. Cond. Enlarged*
Consortium: *Technische Universität München (coordinator), University of Cambridge, Koç University, Bar Ilan University, Compedia Ltd., Karolinska Institutet, Univ. of Genoa, Spectrum ASC-MED*
Role: *Principal Investigator, Koç University*
Duration: *2013 – 2014*
- Source:** *European Commission ERA-Net Program, CHIST-ERA Intelligent User Interfaces Call*
Title: *Joke and Empathy of a Robot/ECA: Towards Social and Affective Relations with a Robot (Joker)*
Consortium: *CNRS-LIMSI (coordinator), Koç University, University College Dublin, LIUM, Univ. of Mons*
Role: *Principal Investigator, Koç University*
Duration: *2013 – 2016*
- Source:** *European Commission ERA-Net Program, CHIST-ERA Intelligent User Interfaces Call*
Title: *Intelligent Multimodal Augmented Video Motion Retrieval System*
Consortium: *University of Basel (coordinator), Koç University, University of Mons*
Role: *Principal Investigator, Koç University*
Title: *Intelligent Multimodal Augmented Video Motion Retrieval System (iMotion)*
Duration: *2013 – 2016*
- Source:** *Scientific & Technological Research Council of Turkey, High Priority Areas R&D Program*
Title: *Intelligent Interfaces for eLearning*
Role: *Principal Investigator, Koç University*
Duration: *2013 – 2016*
- Source:** *SANTEZ Programme, Ministry of Science, Industry, and Technology, Turkey*
Title: *Semi-supervised Intelligent Multimodal Content Translator for Smart TVs*
Role: *Principal Investigator, Koç University*
Duration: *2012 – 2015*
- Source:** *Koç Sistem R&D Programme*
Title: *Gesture-Based Interfaces*
Role: *Co-PI, Koç University*
Duration: *2011 – 2013*
- Source:** *Career Grant, Scientific and Technological Research Council of Turkey*
Title: *Pen-based Multimodal Intelligent User Interfaces*
Role: *Principal Investigator, Koç University*
Duration: *2011 – 2014*
- Source:** *Türk Telekom R&D Programme*
Title: *Educational Sketch-Based Intelligent Interfaces*
Role: *Principal Investigator, Koç University*
Duration: *2010 – 2013*
- Source:** *KOLT Teaching Innovation Grant*
Title: *Interactive Intelligent Sketching Board*
Role: *Principal Investigator, Koç University*
Duration: *2010 – 2011*
- Source:** *DARPA/SAIC (Science Applications International Corporation)*
Title: *Deep Green: Commander's Associate (sketch-to-plan module)*
Role: *co-PI for the sketch-to-plan module, Koç University*
Duration: *2008 – 2009*
- Source:** *DARPA/BAE/SIFT (British Aerospace/Smart Information Flow Technologies)*
Title: *Deep Green: Commander's Associate (sketch-to-plan module)*
Role: *Subcontractor, Koç University*
Duration: *2008 – 2009*

PROFESSIONAL SERVICE AND AFFILIATIONS

Editorial

Computers and Graphics, Special Section on Expressive 2015, Guest Editor (2015)
Computers and Graphics, CAe, NPAR, and SBIM Special Issue, Guest Editor (2011)
Koç University Press, Member of the Editorial Board

Chair / co-chair

Co-chair, Workshop on Visual Analysis of Sketches, ECCV 2016
Co-chair, Expressive 2016
Chair, Expressive 2015
Chair, Sketch Based Interfaces and Modeling 2014
Co-chair, Visual Languages and Computing 2013
Co-chair, Program, Visual Languages and Computing 2012
Associate Chair, International Conference on Multimodal Interaction 2014
Associate Chair, Intelligent User Interfaces 2012
Posters Chair, Sketch Based Interfaces and Modeling 2013
Posters Chair, Sketch Based Interfaces and Modeling 2012
Co-chair, Sketch Based Interfaces and Modeling 2011
Member of the Steering Committee, Expressive International Joint Symposium, CAe, SBIM and NPAR

Program Committee

International Conference on Multimodal Interfaces (Senior PC Member, 2014)
International Workshop on Emotion, Social Signals, Sentiment & Linked Open Data (2014)
Sketch Based Interfaces and Modeling (SBIM 2007, 2008, 2009)
International Conference on Autonomic and Autonomous Systems
VL/HCC Workshop (2008)
Accessible Graphics (2012)
IUI Workshop on Sketch Recognition (2009)
AISB 2009 Symposium on Affective Bodily Expression
International Workshop on Human Behavior Understanding (2010)
International Workshop on Cognitive Information Processing (2012)

Reviewer

Pattern Recognition Journal
Physics Letters A
The Computer Journal
Journal of Multimodal Interfaces
Computers and Graphics Journal
Systems, Man and Cybernetics - Part B
Machine Vision and Applications Journal
Human Computer-Interaction Journal (HCI)
IEEE Transactions on Image Processing Journal
Eurasip Journal on Advances in Signal Processing
SIGGRAPH Asia
IEEE Haptics Symposium
MIT Student Oxygen Workshop (SOW)
European Signal Processing Conference
International Conference on Multimedia & Expo
International Joint Conferences on Artificial Intelligence
International Conference on Multimodal Interfaces (ICMI)
ACM Transactions on Interactive Intelligent Systems (TiS)
User Interface Software and Technology Conference (UIST)
Tangible Embedded & Embodied Interaction Conference (TES).
Artificial Intelligence for Engineering Design, Analysis and Manufacturing
ASME International Design Engineering Technical Conferences & Computers and Information in Engineering Conference

Grant Panels & Reviews

H2020, FET OPEN Call
European Research Council
Foundation for Polish Science
TUBITAK (The Scientific and Technological Council of Turkey)
The Royal Society of New Zealand

Organizer

MIT Dangerous Ideas Seminar Series
St. Computer Science and Engineering Workshop (co-initiator)

Member

Association for the Advancement of Artificial Intelligence (AAAI)
Association for Computing Machinery (ACM)
Institute of Electrical and Electronics Engineers (IEEE)

Other

MIT TechLink AI Lab representative
Turkish SME Development Organization, Innovation and Collaboration R&D Committee
Koç University iTunes Committee
Koç University Graduate School of Social Sciences & Humanities TTT Committee Member

TEACHING

Mobile programming	Spring 2015
Structure and Interpretation of Computer Programs	Spring 2011- 2013
Intelligent User Interfaces	Fall/Spring 2010-2016
Programming Language Concepts	Fall 2009-2015
Probability and Statistical Methods for Engineers	Spring 2009-2013
Introduction to Engineering	Spring 2009-2010

BOARD MEMBERSHIPS & CONSULTING

Koç University Press, Editorial Board (2015)
TÜBİTAK Bilim Genç Magazine, Advisory Board (2014)
Koç University Incubation Center, Advisory Board (2014)
Koç University Technology Transfer Office, Advisory Board (2013)
Inventram Technology, Advisory Board (2011)
TOYOTA Motor Corporation, TOYOTA ITC, Consulting, (2006-2008)

LABORATORY AFFILIATIONS

Koç University	<i>Intelligent User Interfaces Lab, Principal Investigator</i>	2009 – current
Yale University	<i>Computer Graphics Group, Visiting Fellow</i>	2016 – current
Harvard University	<i>Intelligent Interactive Systems Group, Visiting Scholar</i>	2010
Koç University	<i>Multimedia Vision & Graphics Lab, Affiliated Faculty</i>	2009 – current
University of Cambridge	<i>Rainbow Group, Research Associate</i>	2006 – 2009
MIT	<i>CSAIL</i>	2003 – 2006
MIT	<i>Artificial Intelligence Laboratory</i>	1999 – 2003

INVITED TALKS and PANELS

<i>Keynote: Past, Present, and the Future of Sketch-Based Interfaces</i>	24/02/16
<i>SketchX: Human Sketch Analysis and its Applications, BMVA, London, UK</i>	
<i>Seamless Multi-Modal Interaction: Opportunities for Pen-Based Computing</i>	25/02/16
<i>Queen Mary University of London, London, UK</i>	
<i>Artificial Intelligence and Human Behavior Mining for Intelligent Interaction</i>	02/05/15
<i>Artificial Intelligence and Image Processing Gathering, Ankara, Turkey</i>	
<i>Artificial Intelligence and Human-Computer Interaction</i>	07/04/15
<i>Bilim ve Teknik, Science Seminar Series</i>	
<i>Technologies for Smart Interaction and Communication</i>	02/04/15
<i>Ministry of Transportation Maritime Affairs and Communication, R&D Workshop, Ankara, Turkey</i>	
<i>Enriched Interaction through Inferred Intentions</i>	11/11/14
<i>Turkish-German Multimodal Interaction Summit, Istanbul, Turkey</i>	
<i>Reading Intentions: Proactive and Predictive Multimodal Intelligent Interfaces</i>	31/10/14
<i>Computer Laboratory, University of Cambridge, Cambridge, UK</i>	
<i>Intelligent User Interfaces: Practical Considerations in Design and Implementation</i>	04/09/13
<i>Muscle International Workshop on Computational Intelligence for</i>	
<i>Multimedia Understanding, Antalya, Turkey</i>	
<i>Intelligent User Interfaces: Natural Interaction for Everyone</i>	05/08/13
<i>Imagination Studios, Uppsala, Sweden</i>	
<i>Intelligent User Interfaces: Mice Transformed back into Homo Sapiens</i>	04/12/12
<i>Boğaziçi University, Istanbul</i>	
<i>KU IUI Laboratory, Introduction and Ideas for Extension</i>	25/11/12
<i>ASC-Inclusion EU FP10 Project, Extension Meeting, Cambridge, UK.</i>	
<i>Panelist: Future of Intelligent User Interfaces: Issues and Challenges</i>	05/07/12
<i>CHIST-ERA 2012, ERA-Net conference, Edinburgh, UK.</i>	
<i>Keynote: Intelligent Interaction, Recognition and Multimodal Fusion: the Cases</i>	05/07/12
<i>for Sketching, Gestures, Speech, Haptics, Eye-gaze and Affect</i>	
<i>CHIST-ERA 2012, ERA-Net conference, Edinburgh, UK.</i>	
<i>Academia Panel, CSW 2012</i>	28/04/12

<i>Academia 101</i> <i>Koç University ACM Chapter</i>	25/11/11
<i>Feature Extraction and Classifier Combination for Image-based Sketch Recognition</i> <i>Sabancı University, Istanbul, Turkey</i>	6/04/11
<i>Intelligent User Interfaces Research Overview</i> <i>Intelligent Interactive Systems Lab, Harvard University, USA</i>	07/13/10
<i>Building Sketch-Based Intelligent User Interfaces</i> <i>University of Nottingham, UK</i>	06/29/10
<i>Overview of Recent Work in Pen-Centric Computing</i> <i>Design Rationale Group, MIT, Cambridge MA</i>	04/11/09
<i>Deep Green Related Work on Sketch Recognition</i> <i>Texas A&M University, College Station, TX</i>	25/04/09
<i>Intelligent User Interfaces for Natural Human Computer Interaction</i> <i>Sabancı University, Istanbul, Turkey</i>	12/03/09
<i>Sketch Recognition with Multiscale Stochastic Models of Temporal Patterns</i> <i>Texas A&M University, College Station, TX</i>	09/05/08
<i>Emerging Trends in Intelligent Interfaces and Implications for e-Commerce</i> <i>University of Nottingham, Nottingham, UK</i>	29/04/08
<i>Temporal Sketch Recognition and Sketch Based Interfaces</i> <i>Interface 2007 Workshop, Boğaziçi University, Istanbul</i>	25/07/07
<i>Temporal Sketch Recognition and Sketch Based Interfaces</i> <i>University of Bath, Bath, UK</i>	18/05/07
<i>Affective Interfaces</i> <i>University of Salford, Manchester, UK</i>	28/11/06
<i>Overview of Recent Work in Pen-Centric Computing</i> <i>Invited Workshop on Pen-Centric Computing, Providence RI</i>	26/03/06
<i>Sketch Recognition Using Dynamic Bayesian Networks</i> <i>University of New Mexico, Albuquerque NM</i>	09/03/06

WORK EXPERIENCE

<i>Computer Software Engineer at Havelsan Aerospace Electronic Industry Inc. Ankara, Turkey</i>	06/99 – 09/99
<i>Research Intern at ASELSAN Electronics. Ankara, Turkey</i>	06/98 – 07/98
<i>Computer Software Developer. Syracuse University Physics Department, Syracuse NY</i>	09/96 – 12/98
<i>Computer Software Developer. BlackWatch Tech. Inc., Syracuse NY</i>	08/96 – 05/98

ORGANIZED SEMINAR SERIES

<i>Graduate Seminars, Department of Engineering, Koç University, Istanbul.</i>	12/09 – 01/11
<i>Rainbow Group Thursday Seminars, Computer Lab., University of Cambridge, Cambridge UK.</i>	01/08 – 04/08
<i>Dangerous Ideas Seminar Series, MIT CSAIL, Cambridge MA.</i>	06/04 – 06/06

WORKSHOPS and TUTORIALS

-
- Intelligent User Interfaces, Fethiye, Turkey.* 04/18/12
Invited tutorial on intelligent user interfaces delivered at the 20th IEEE Signal Processing and Communication Conference.
- Building Sketch-Based Intelligent User Interfaces, University of Nottingham, UK.* 06/29/10
Invited one-day tutorial covering machine learning, human computer interfaces, evaluation strategies, the design, construction, evaluation of sketch-based intelligent user interfaces.
- Annual Oxygen Alliance Partnership Meeting, MIT CSAIL, Cambridge MA.* 04/24/02
Co-organization of a day workshop for industry professionals from Project Oxygen partners, focusing on the essentials of building sketch based applications for PDAs and Tablet PCs from ground up.

EXHIBITIONS & FAIRS

-
- Predicting User Intention in Sytlus Use* October 2014
TechInnovation Fair
Marina Bay Sands, Singapore
- Pen-Based Interfaces for Teaching and Learning* September 2012
Turk Telekom R&D Days
Sapanca, Turkey
- Mind-Reading Machines* January 2007
IIT Techfest
IIT, Bombay, India
- Mind-Reading Machines* June 2006
The Royal Society Summer Science Exhibition
The Royal Society, London, UK
- Mind-Reading Machines* September 2006
The Royal Society Summer Science Exhibition
Glasgow Science Center, Glasgow, UK
- Thrill Laboratory, Mind-Reading Machines* October 2006
The Dana Center, London UK

PRESS COVERAGE

-
- INFOMAG** *Digital Turks*
Jan 2011
- PC World** *Microsoft Looks in the Crystal Ball:*
October 2003 Research chief demonstrates Magic Paper, virtual classrooms, and other projects.
- CNN** *Breathing Life into Messy Sketches*
October 2003
- New Scientist** *Smart Software Makes Sense of Rough Sketches*
September 2003
- Mass HighTech** *MIT's Tablet Tech Gets a Look-See from Microsoft*
July 2003