

T. METIN SEZGIN

Koç University
College of Engineering
Sarıyer, Istanbul, Turkey

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RESEARCH INTERESTS

Intelligent User Interfaces, Multimodal Interfaces, Affective Computing, Artificial Intelligence, Explainable AI in Deep Learning, Machine Learning, Anomaly Detection.

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

Professor of Computer Engineering

02/23 – current

Koç University, College of Engineering, Istanbul, Turkey

Associate Professor of Computer Engineering

05/16 – 02/23

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

National Research Council, Sponsored Research Success Stories Showcase (2019)

The Science Academy, Young Scientist Award (2018)

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: 2500+

G-Index: 50

i10-index: 51

H-Index: 25

STUDENT SUPERVISION & POSTDOCS

Postdoctoral Research Associates

<i>Yusuf Sahillioğlu</i> Project Title: Current position:	<i>IUI Lab, Koç University, Postdoctoral Research Associate</i> <i>iMotion, Intelligent Multimodal Motion Retrieval</i> <i>Assistant Professor, Middle East Technical University, Turkey</i>	<i>01/14 – 10/14</i>
<i>Neşe Alyüz Çivitçi</i> Project Title: Current position:	<i>IUI Lab, Koç University, Postdoctoral Research Associate</i> <i>Formative Affective Interfaces</i> <i>Intel Labs, Seattle, US</i>	<i>11/13 – 01/15</i>
<i>Başak Alper</i> Project Title: Current position:	<i>IUI Lab, Koç University, Postdoctoral Research Associate</i> <i>Intelligent Interfaces for eLearning</i> <i>NASA, Jet Propulsion Laboratory</i>	<i>09/13 – 09/14</i>

PhD Supervision – Alumni

<i>Bushra Sadia</i> Dissertation Title:	<i>Koç University, PhD in Computational Science and Engineering</i> <i>Tactile Rendering of Digital Buttons and Shapes on Touchscreens</i> <i>Using Novel Surface Haptics Technologies (co-supervised)</i>	<i>09/16 – 09/21</i>
<i>Ezgi Senem Emgin</i> Dissertation Title:	<i>Koç University, PhD in Computational Science and Engineering</i> <i>HapTable: An Interactive Tabletop Providing Online Haptic</i> <i>Feedback for Surface Gestures (co-supervised)</i>	<i>01/12 – 01/20</i>
<i>Çağla Çığ</i> Dissertation Title:	<i>Koç University, PhD in Computer Engineering</i> <i>Gaze-Aware Predictive Multimodal Interfaces</i>	<i>09/11 – 02/17</i>
<i>Çağlar Tırkaz</i> Dissertation Title:	<i>Sabancı University, PhD in Electrical and Computer Engineering</i> <i>Sketch and Attribute Based Query Interfaces (co-supervised)</i> Thesis work has received the Dr. Gürsel Sönmez Research Award, Only three awarded in the College of Engineering & Natural Sciences	<i>09/09 – 05/15</i>
<i>Sinan Tümen</i> Dissertation Title:	<i>Koç University, PhD in Electrical and Computer Engineering</i> <i>Learning Stroke Fragmentation and Sketch Segmentation</i>	<i>09/09 – 09/15</i>
<i>Ayşe Küçükylmaz</i> Dissertation Title:	<i>Koç University, PhD in Computational Sciences and Engineering</i> <i>Haptic Role Allocation and Intention Negotiation in Human-Robot</i> <i>Collaboration (co-supervised)</i> Thesis work received the Koç University Academic Excellence Award, Only one awarded in the Graduate School of Engineering & Sciences	<i>09/08 – 06/13</i>

PhD Supervision – Ongoing

<i>Baris Batuhan Topal</i> Dissertation Title:	<i>Koç University, M.Sc. in Computer Engineering</i> <i>Computational Models of Narratives in Comics</i>	<i>09/22 – current</i>
<i>Alpay Sabuncuoğlu</i> Dissertation Title:	<i>Koç University, PhD in Computer Engineering</i> <i>Accessible eLearning Interfaces</i>	<i>08/18 – current</i>
<i>Berker Türker</i> Dissertation Title:	<i>Koç University, PhD in Computer Engineering</i> <i>Affect Burst Detection and Recognition (co-supervised)</i>	<i>09/13 – current</i>

MS Supervision – Alumni

<i>Gokce Iymen</i> Dissertation Title:	<i>Koç University, M.Sc. in Computer Engineering</i> <i>Title: Intelligible Emotional Voice Conversion with StarGAN</i> <i>Assisted by DTW and Speaker Classifier</i>	<i>08/20 – 09/22</i>
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<i>Baris Batuhan Topal</i> Dissertation Title:	<i>Koç University, M.Sc. in Computer Engineering</i> <i>Domain-adaptive Self-supervised Pre-training for Face & Body Detection in Drawings (co-supervised)</i>	<i>08/20 – 08/22</i>
<i>Alara Zindancioglu</i> Dissertation Title:	<i>Koç University, M.Sc. in Computer Engineering</i> <i>Perceptually Validated Precise Local Editing for Facial Action Units with StyleGAN</i>	<i>08/19 – 01/22</i>
<i>Öykü Bayramoğlu</i> Dissertation Title:	<i>Koç University, M.Sc. in Computer Engineering</i> <i>Engagement Modeling in Human-Robot Interaction (co-supervised)</i>	<i>09/19 – 01/22</i>
<i>Alican Akman</i> Dissertation Title:	<i>Koç University, M.Sc. in Computer Engineering</i> <i>Deep Models for Generation of 3D Human Models and Animations from Sketches</i>	<i>08/17 – 08/20</i>
<i>Zana Buçinca</i> Dissertation Title:	<i>Koç University, M.Sc. in Computer Engineering</i> <i>Incorporating Affect into Dialog Generation</i>	<i>08/16 – 05/19</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 – 01/19</i>
<i>Kurmanbek Kaiyrbekov</i> Dissertation Title:	<i>Koç University, M.Sc. in Computer Engineering</i> <i>Stroke-based Sketched Symbol Segmentation And Generation (Deep Learning)</i>	<i>08/15 – 08/18</i>
<i>Kemal Tuğrul</i> Dissertation Title:	<i>Koç University, M.Sc. in Computer Engineering</i> <i>Sketch Recognition with Few Examples</i>	<i>09/13 – 08/16</i>
<i>Şerike Çakmak</i> Dissertation Title:	<i>Koç University, M.Sc. in Computer Engineering</i> <i>Clustering Free-Form Sketch Scenes through Perceptual Similarity</i>	<i>09/13 – 08/16</i>
<i>Cansu Şen</i> Dissertation Title:	<i>Koç University, M.Sc. in Computer Engineering</i> <i>Semi-Supervised Multimodal Intelligent Content Translator</i>	<i>09/13 – 09/16</i>
<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 Öğüz</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>Egecan Esen</i> <i>Dissertation Title:</i>	<i>Koç University, M.Sc. in Computer Engineering</i> <i>BCI for Detection of Cybersickness Neuromarkers</i>	<i>09/22 – current</i>
<i>Aleyna Küçük</i> <i>Dissertation Title:</i>	<i>Koç University, M.Sc. in Computer Engineering</i> <i>Perceptual Recognition and Synthesis of Sketches</i>	<i>09/21 – current</i>
<i>Gürkan Soykan</i> <i>Dissertation Title:</i>	<i>Koç University, M.Sc. in Computer Engineering</i> <i>Multimodal Processing of Visual Story Narratives (co-supervised)</i>	<i>09/20 – current</i>
<i>Ezgi Dede</i> <i>Dissertation Title:</i>	<i>Koç University, M.Sc. in Computer Engineering</i> <i>SketchNet</i>	<i>08/19 – current</i>

Undergraduate Supervision (selected)

<i>Birkan Çelik</i> <i>Project Title:</i>	<i>Koç University, Undergraduate Research Student</i> <i>Perception-based Sketch Processing</i>	<i>07/19 – 09/22</i>
<i>Ahmet Bağlan</i> <i>Project Title:</i>	<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> <i>Project Title:</i>	<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> <i>Project Title:</i>	<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> <i>Project Title:</i>	<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> <i>Project Title:</i>	<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> <i>Project Title:</i>	<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> <i>Project Title:</i>	<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> <i>Project Title:</i>	<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> <i>Project Title:</i>	<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> <i>Project Title:</i>	<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> <i>Project Title:</i>	<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> <i>Project Title:</i>	<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> <i>Project Title:</i>	<i>Koç University, Summer Research Student, Bilkent University</i> <i>Sketch-Based Retrieval</i>	<i>06/11 – 08/11</i>
<i>Sasa Kostadinovic</i> <i>Project Title:</i>	<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> Project Title:	<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> Thesis Title:	<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> Thesis Title:	<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> Thesis Title:	<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> Thesis Title:	<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> Thesis Title:	<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> Thesis Title:	<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. **T. M. Sezgin**, *Online Interpretation of Sketched Drawings*, Book chapter in *Sketch Based Interfaces and Modelling for Product Design*, River Publishing, Book Chapter. (2022).
2. **T. M. Sezgin**, *Explainable Artificial Intelligence*, Contributed Article, *Softtech Technology Trend Report*. (2020).
3. **Küçükylmaz, S. O. Öğüz, 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).
4. **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. **Biswas, P., Orero, P., Sezgin, T.M.**, *Special Issue on Intelligent Interaction Design*, AIEDAM Special Issue, Volume 33, Number 4, Guest Editor, (2020).
2. **T. M. Sezgin**, *Computers and Graphics, Special Section on SBIM, CAe, NPAR – Expressive 2015*, Volume 59, October 2016, Guest Editor, (2016).
3. **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. **A. Triantafyllopoulos, B. Schuller, G. İymen, T. M. Sezgin, X. He, Z Yang, P. Tzirakis, S. Liu, S. Mertes, E. André, R. Fu, J. Tao**, **An Overview of Affective Speech Synthesis and Conversion in the Deep Learning Era**, *Proceedings of the IEEE*, (2023).
2. **E. Kesim, T. Numanoglu, O. Bayramoglu, B. Turker, N. Hussain, T. M. Sezgin, Y. Yemez, E. Erzin**, **The eHRI database: a multimodal database of engagement in human-robot interactions**. *Language Resources & Evaluation*, (2023).
3. **A. Akman, Y. Sahillioğlu, T. M. Sezgin**, **Deep Generation Of 3D Articulated Models And Animations From 2D Stick Figures**, *Computers & Graphics*, Vol: 109, pp: 65-74, (2022).
4. **N. Hussain, E. Erzin, T. M. Sezgin, Y. Yemez**, **Training Socially Engaging Robots: Modeling Backchannel Behaviors with Batch Reinforcement Learning**, *IEEE Transactions on Affective Computing*, vol. 13, no. 4, pp. 1840-1853, 1 Oct.-Dec., (2022).
5. **A. Sabuncuoğlu, M. T. Sezgin**, **Kart-ON: An Extensible Paper Programming Strategy for Affordable Early Programming Education**, *Proceedings of the ACM on Human-Computer Interaction*, Article 170, (2022).
6. **A. Sabuncuoğlu, M. T. Sezgin**, **Prototyping Products using Web-based AI Tools: Designing a Tangible Programming Environment with Children**, *International Conference on Computing, Design and Making in Education*, Copenhagen, Denmark, May 30-31, (2022).
7. **R. S. Tumen, T.M. Sezgin**, **Segmentation and Recognition of Offline Sketch Scenes Using Dynamic Programming**, *IEEE Computer Graphics and Applications*, Vol: 42, Issue: 2, pp 56-72, (2021). **Feature Article**

8. A. Sabuncuoğlu, A. E. Yantac, T. M. Sezgin, **Teaching K-12 Classrooms Data Programming: A Three-Week Workshop with Online and Unplugged Activities**, *IEEE VIS Workshop on Data Vis Activities*, (2021)
9. A. Zindancıoğlu, T.M. Sezgin, **Perceptually Validated Precise Local Editing for Facial Action Units with StyleGAN**, *arXiv preprint arXiv:2107.12143*, (2021).
10. Ö.Z. Bayramoğlu, E. Erzin, T.M. Sezgin, Y. Yemez, **Engagement Rewarded Actor-Critic with Conservative Q-Learning for Speech-Driven Backchannel Generation in Human-Robot Interaction**, *23rd ACM International Conference on Multimodal Interaction Montreal, Canada. October 18-22*, (2021).
11. K.T. Yesilbek, T.M. Sezgin, **On Training Sketch Recognizers for New Domains**, *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) Workshops, 2021*, pp. 2142-2149
12. Z. Bucinca, Y. Yemez, E. Erzin, T. M. Sezgin, **AffectON: Incorporating Affect into Dialog Generation**, *IEEE Transactions on Affective Computing*, Vol: 11, No: 3, Dec, (2020).
13. A. Sabuncuoğlu, M. T. Sezgin, **Kart-ON: Affordable Early Programming Education with Shared Smartphones and Easy-to-Find Materials**, *IUI '20: Proceedings of the 25th International Conference on Intelligent User Interfaces Companion*. (2020).
14. A. Akman, Y. Sahillioğlu, T. M. Sezgin, **Generation of 3D Human Models and Animations Using Simple Sketches**, *Graphics Interfaces*, (2020).
15. B. Sadia, S. E. Emgin, T. M. Sezgin and Ç. Başdoğan, **Data-Driven Vibrotactile Rendering of Digital Buttons on Touchscreens**, *International Journal of Human-Computer Studies*, Vol. 135 (2020).
16. A. Bonnici, A. Akman, G. Calleja, K. P. Camilleri, P. Fehling, A. Ferreira, F. Hermuth, J. H. Israel, T. Landwehr, J. Liu, N. M. J. Padfield, T. M. Sezgin, and P. L. Rosin, **Sketch-based interaction and modeling: where do we stand?**, *Artificial Intelligence for Engineering Design, Analysis and Manufacturing*, pp. 1–19, (2019).
17. K. Kaiyrbekov, T. M. Sezgin, **Deep stroke-based sketched symbol reconstruction and segmentation**, *IEEE Computer Graphics and Applications*, Vol: 40, Issue: 1, pp: 112-126, (2020). **Feature Article**
18. N. Alyuz, T. M. Sezgin, **Interpretable Machine Learning for Generating Semantically Meaningful Formative Feedback**, *CVPR, IEEE Conference on Computer Vision and Pattern Recognition, Workshop on Explainable AI, Long Beach, CA* (2019).
19. N. Hussain, E. Erzin, T. M. Sezgin, Y. Yemez, **Speech Driven Backchannel Generation using Deep Q-Network for Enhancing Engagement in Human-Robot Interaction**, *INTERSPEECH: Annual Conference of the International Speech Communication Association, Graz, Austria*, (2019).
20. S. E. Emgin, A. Aghakhani, T. M. Sezgin, C. Basdogan, **Hactable: An Interactive Tabletop Providing Online Haptic Feedback for Touch Gestures**, *IEEE Transactions on Visualization and Computer Graphics*, Vol: 25, Issue: 9, pp. 2749-2762, (2019).
21. N. Hussain, E. Erzin, T. M. Sezgin, Y. Yemez, **Batch Recurrent Q-Learning for Backchannel Generation Towards Engaging Agents**” *8th International Conference on Affective Computing and Intelligent Interaction (ACII)*, (2019).
22. B. Türker, E. Erzin, Y. Yemez, and T. M. Sezgin, **Audio-Visual Prediction of Head-Nod and Turn-Taking Events in Dyadic Interactions**, *Proc. Interspeech 2018, Hyderabad, India* (2018).
23. L. Devillers and S. Rosset and G. Dubuisson Duplessis and L. Bechade and Y. Yemez and B. B. Turker and T. M. Sezgin and E. Erzin and K. El Haddad and S. Dupont and P. Deleglise and Y. Esteve and C. Lailler and E. Gilmartin and N. Campbell, **Multifaceted Engagement in Social Interaction with a Machine: The JOKER Project**, *2018 13th IEEE International Conference on Automatic Face & Gesture Recognition (FG 2018)*, Xi'an, China, pp. 697-701, (2018).

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

European Patent Application, Granted
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

- Acronym:** EPILEPSY
Source: Health Institutes of Turkey
Title: 3D Sonification for Localization of Seizure Localization
Consortium: School of Medicine, Media and Visual Arts, Koc University
Role: Co-Investigator, Koç University
Duration: 2022 – 2024
- Acronym:** CHEM-AI
Source: Scientific & Technological Research Council of Turkey, 1512 Program
Title: Active Learning for Chemical Design (Hayat Kimya)
Role: Principal Investigator, Koç University
Duration: 2022 – 2024
- Acronym:** GENESIS
Source: European Commission ERA-Net Program, Advanced Brain-Computer Interfaces Call
Title: Leveraging Neuromarkers for Next-Generation Immersive Systems
Consortium: University of Lille (coordinator), Koç University, Inria, ETH Zurich
Role: Principal Investigator, Koç University
Duration: 2021 – 2024
- Acronym:** SketchNet
Source: Scientific & Technological Research Council of Turkey, 1001 Program
Title: Perception Based Sketch Processing
Role: Principal Investigator, Koç University
Duration: 2020 – 2023
- Acronym:** 1003S
Source: Scientific & Technological Research Council of Turkey, High Priority Areas R&D Program
Title: Tangible Intelligent Interfaces for Teaching Computational Thinking Skills
Role: Principal Investigator, Koç University
Duration: 2019 – 2022
- Acronym:** 1001
Source: Scientific & Technological Research Council of Turkey, 1001 Program
Title: Backchannel Feedback Modeling for Human-Computer Interaction
Role: Co-PI, Koç University
Duration: 2018 – 2020
- Acronym:** JOKER
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
Consortium: CNRS-LIMSI (coordinator), Koç University, University College Dublin, LIUM, Univ. of Mons
Role: Principal Investigator, Koç University
Duration: 2013 – 2016
- Acronym:** iMotion
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
Duration: 2013 – 2016
- Acronym:** ASC-Inclusion
Source: European Commission STREP, FP7-ICT-2013-10, ICT-2013.11.4
Title: Internet-Based Environment for Social Inclusion of Children w/Autism Spectrum Conditions
Consortium: Technische Universität München (coordinator), University of Cambridge, Koç University, Bar Ilan University, Comperia Ltd., Karolinska Institutet, Univ. of Genoa, Spectrum ASC-MED
Role: Principal Investigator, Koç University
Duration: 2013 – 2014

Acronym: 1003
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

Acronym: SANTEZ
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

Acronym: SmartGestures
Source: Koç Sistem R&D Programme
Title: Gesture-Based Interfaces
Role: Co-PI, Koç University
Duration: 2011 – 2013

Acronym: Career-TR
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

Acronym: TT-RD
Source: Turk Telekom R&D Programme
Title: Educational Sketch-Based Intelligent Interfaces
Role: Principal Investigator, Koç University
Duration: 2010 – 2013

Acronym: KOLT
Source: KOLT Teaching Innovation Grant
Title: Interactive Intelligent Sketching Board
Role: Principal Investigator, Koç University
Duration: 2010 – 2011

Acronym: DeepGreen I
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

Acronym: DeepGreen II
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

GRANTS – Summary and Quantitative Metrics

Summary of the major grants: Scale, and significance of the funding budget is better reflected in the number of students/postdoc man-months supported by each grant, as indicated in the last column.

Acronym	Funding Type	Duration in months	Status	Budget and scope of support
CHEM-AI	National	18	Ongoing	1 research engineer for 18 months, Equipment & Travel
EPILEPSY	National	24	Ongoing	2 graduate students for 24 months, Equipment & Travel
GENESIS	European Union ERA-NET	36	Approved	2 graduate students, 1 postdoc for 3 years, Equipment & Travel
SketchNet	National	24	Ongoing	3 graduate students for 2 years, Equipment & Travel
1001	National	24	Ongoing	3 graduate students for 2 years, 1 postdoc for 2 years, Equipment & Travel
Karton	National	24	Ongoing	3 graduate students for 2 years, Equipment & Travel
Deep Green I&II	DARPA	12	Completed	2 graduate students for 1 year, Equipment & Travel
Career-TR	Career Award	36	Completed	3 graduate students for 3 years, Equipment & Travel
iMotion	European Union ERA-NET	36	Completed	2 graduate students for 2 years, 1 postdoc for 18 months, Equipment & Travel
Joker	European Union ERA-NET	36	Completed	2 graduate students for 30M, 1 postdoc for 18 months, Equipment & Travel
ASC Inclusion	European Union, FP7	14	Completed	3 graduate students for 14 M, 1 postdoc for 14 M, Equipment & Travel
eSketch	National	36	Completed	3 graduate students for 3 years, 1 postdoc for 3 years, Equipment & Travel
GEBIP	Turkish Academy of Sciences	36	Completed	Equipment & Travel for three years
Santez	National	30	Completed	2 graduate students for 2 years, Equipment & Travel
Koç Sistem	Industrial	24	Completed	2 graduate students for 2 years, Equipment & Travel
Turk Telekom	Industrial	24	Completed	2 graduate students for 2 years, Equipment & Travel
			TOTAL	798 person-months grad student, 128 person-months postdoc/engineer fund, Equipment & Travel

PROFESSIONAL SERVICE AND AFFILIATIONS**Editorial**

IEEE Transactions on Affective Computing, Associate Editor
IEEE Transactions on Multimedia, Associate Editor
Computers and Graphics, Associate Editor
Graphics and Visual Computing, Associate Editor
AI-EDAM Special Issue on Intelligent Interaction Design, Guest Editor, (2019)
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 (2015-2016)

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, 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 Intelligent User Interfaces (Senior PC Member, 2022)
International Conference on Multimodal Interfaces (Senior PC Member, 2021)
International Joint Conference on Artificial Intelligence, (2020)
IEEE International Conference on Multimedia & Expo, (2020)
International Conference on Multimodal Interfaces (Senior PC Member, 2019)
IEEE International Conference on Artificial Intelligence and Virtual Reality (2018)
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

Physics Letters A
The Computer Journal
Pattern Recognition Journal
Journal of Multimodal Interfaces
Computers and Graphics Journal
IEEE Robotics and Automation Letters
Systems, Man and Cybernetics - Part B
Machine Vision and Applications Journal
Computer Vision and Image Understanding
Human Computer-Interaction Journal (HCI)
IEEE Transactions on Image Processing Journal
Eurasip Journal on Advances in Signal Processing
SIGGRAPH
SIGGRAPH Asia
IEEE Haptics Symposium

MIT Student Oxygen Workshop (SOW)
 European Signal Processing Conference
 European Conference on Artificial Intelligence
 International Conference on Multimedia & Expo
 International Joint Conferences on Artificial Intelligence (IJCAI)
 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
 Dutch Research Council
 European Research Council
 Foundation for Polish Science
 The Royal Society of New Zealand
 TUBITAK (The Scientific and Technological Council of Turkey)

Organizer

MIT Dangerous Ideas Seminar Series
 CVPR Workshop on Sketch-Oriented Deep Learning
 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

Founding Vice President, AAAI Chapter of Turkey
 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

Programming Language Concepts	2009-2021
Senior Design Project	2019-2021
Mobile programming	2015-2016
Structure and Interpretation of Computer Programs	2011-2013
Intelligent User Interfaces	2010-2020
Probability and Statistical Methods for Engineers	2009-2013
Introduction to Engineering	2009-2010

BOARD MEMBERSHIPS & CONSULTING

AAAI Chapter of Turkey	Founding Vice President (2020, –)
AAAI Chapter of Turkey	Board Member (2020, –)
Bahçeşehir University, Department of Artificial Intelligence	Advisory Board (2020, –)
Özyeğin University, Department of Computer Science	Advisory Board (2019, –)
İş Bank	Technology Advisory Board (2018, –)
TÜBİTAK Bilim Genç Magazine	Advisory Board (2014-2018)
Koç University Press	Editorial Board (2015)
Koç University Incubation Center	Advisory Board (2014, –)
Koç University Technology Transfer Office	Advisory Board (2013, –)
Inventram Technology	Advisory Board (2011, –)
TOYOTA Motor Corporation	Technology Consultant (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 – 2017
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, KEYNOTES & PANELS

<i>Keynote: Expression and Perception with Sketches</i>	23/10/22
<i>ECCV Workshop on Sketching for Human Expressivity</i>	
<i>Invited Talk: Intelligent Interaction: Where machine learning, psychology and HCI meet</i>	09/05/22
<i>Technology Society and Professional Development Seminar, Bilkent University, Turkey</i>	
<i>Panelist: AI Applications in Defense and Unmanned Systems</i>	13/11/21
<i>SAHA EXPO, Defense & Aerospace Hybrid Exhibition, Istanbul, Turkey</i>	
<i>AI and Intelligent Interaction</i>	16/08/21
<i>International Summer School on AI, Bilgi University & KUIS AI Center, Istanbul</i>	
<i>Panelist: Getting a Grasp of Artificial Intelligence</i>	20/05/20
<i>DigitalTalks, Istanbul</i>	
<i>Machine Learning for Interaction: Psychology-Driven Design of Intelligent Interfaces</i>	29/06/20
<i>Science Academy, Summer School on Artificial Intelligence, Bilkent University, Turkey</i>	
<i>Technological solutions to technology-driven challenges of the changing societies</i>	24/10/19
<i>Turkish-German Frontiers of Social Science Symposium, Leipzig, Germany</i>	
<i>Turkish-German Artificial Intelligence Summit</i>	22/08/19
<i>Berlin, Germany</i>	
<i>Keynote: Future of the Automotive Industry Workshop</i>	20/06/19
<i>Stanford University, CA, organized by the Investment Office of the Presidency of Turkey</i>	
<i>Panelist: Individuals and Institutions in a World of Artificial Intelligence</i>	13/11/18
<i>DigitalTalks, Istanbul</i>	
<i>Psychology-Driven Design of Intelligent Interfaces</i>	19/06/19
<i>IBM Research, San Jose, CA</i>	
<i>Psychology-Driven Design of Intelligent Interfaces</i>	25/03/19
<i>Disney Research, Zürich</i>	
<i>Panelist: Artificial Intelligence</i>	04/05/18
<i>Koc University, Turkey</i>	
<i>Keynote: International Researchers, Statisticians and Young Statisticians Congress</i>	30/04/18
<i>Cesme, Turkey</i>	
<i>Panelist: Human-Machine Symbiosis</i>	28/03/18
<i>Undersecretariat of Defense Industries, Ankara, Turkey</i>	
<i>Psychology Aware Intelligent Interaction</i>	14/03/18
<i>Internationalization Partnership Awards Scheme Workshop, University of Malta, Malta</i>	

<i>Artificial Intelligence, Psychology and Mind Reading</i> <i>MIT Club of Turkey, Istanbul, Turkey</i>	10/03/18
<i>Interaction through Subtle Communicative Cues</i> <i>Carnegie Mellon University, Pittsburgh, PA, USA</i>	16/08/17
<i>Enhancing Interaction through Subtle Cues</i> <i>University of California San Diego, San Diego. CA, USA</i>	01/08/17
<i>Psychology and Intelligent User Interaction</i> <i>University of Central Florida, Orlando, FL, USA</i>	21/06/17
<i>Psychology and Intelligent User Interaction</i> <i>Texas A&M University, College Station, TX, USA</i>	15/02/17
<i>Keynote: Past, Present, and the Future of Sketch-Based Interfaces</i> <i>SketchX: Human Sketch Analysis and its Applications, BMVA, London, UK</i>	24/02/16
<i>Seamless Multi-Modal Interaction: Opportunities for Pen-Based Computing</i> <i>Queen Mary University of London, London, UK</i>	25/02/16
<i>Artificial Intelligence and Human Behavior Mining for Intelligent Interaction</i> <i>Artificial Intelligence and Image Processing Gathering, Ankara, Turkey</i>	02/05/15
<i>Artificial Intelligence and Human-Computer Interaction</i> <i>Bilim ve Teknik, Science Seminar Series</i>	07/04/15
<i>Technologies for Smart Interaction and Communication</i> <i>Ministry of Transportation Maritime Affairs and Communication, R&D Workshop, Ankara, Turkey</i>	02/04/15
<i>Enriched Interaction through Inferred Intentions</i> <i>Turkish-German Multimodal Interaction Summit, Istanbul, Turkey</i>	11/11/14
<i>Reading Intentions: Proactive and Predictive Multimodal Intelligent Interfaces</i> <i>Computer Laboratory, University of Cambridge, Cambridge, UK</i>	31/10/14
<i>Intelligent User Interfaces: Practical Considerations in Design and Implementation</i> <i>Muscle International Workshop on Computational Intelligence for Multimedia Understanding, Antalya, Turkey</i>	04/09/13
<i>Intelligent User Interfaces: Natural Interaction for Everyone</i> <i>Imagination Studios, Uppsala, Sweden</i>	05/08/13
<i>Intelligent User Interfaces: Mice Transformed back into Homo Sapiens</i> <i>Boğaziçi University, Istanbul</i>	04/12/12
<i>KU IUI Laboratory, Introduction and Ideas for Extension</i> <i>ASC-Inclusion EU FP10 Project, Extension Meeting, Cambridge, UK.</i>	25/11/12
<i>Panelist: Future of Intelligent User Interfaces: Issues and Challenges</i> <i>CHIST-ERA 2012, ERA-Net conference, Edinburgh, UK.</i>	05/07/12
<i>Keynote: Intelligent Interaction, Recognition and Multimodal Fusion: the Cases</i> <i>for Sketching, Gestures, Speech, Haptics, Eye-gaze and Affect</i> <i>CHIST-ERA 2012, ERA-Net conference, Edinburgh, UK.</i>	05/07/12
<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>Sabanci 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>Sabanci 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>Enterface 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
WORKSHOPS and TUTORIALS	
<i>CVPR 2nd Workshop on Sketch-Oriented Deep Learning (SketchDL)</i>	06/20/22
<i>CVPR 1st Workshop on Sketch-Oriented Deep Learning (SketchDL)</i>	06/19/21
<i>Intelligent User Interfaces, Fethiye, Turkey</i> Invited tutorial on intelligent user interfaces delivered at the 20 th IEEE Signal Processing and Communication Conference.	04/18/12
<i>Building Sketch-Based Intelligent User Interfaces, University of Nottingham, UK</i> Invited one-day tutorial covering machine learning, human computer interfaces, evaluation strategies, the design, construction, evaluation of sketch-based intelligent user interfaces	06/29/10
<i>Annual Oxygen Alliance Partnership Meeting, MIT CSAIL, Cambridge MA</i> 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.	04/24/02

WORK EXPERIENCE

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

ORGANIZED SEMINAR SERIES

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

EXHIBITIONS & FAIRS

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

PRESS COVERAGE

Hurriyet <i>Jun 2018</i>	<i>Intentions Inferred by Artificial Intelligence</i>
QUARTZ <i>Jan 2018</i>	<i>It's Time to Teach Kids How to Read Charts</i>
Turkishtime <i>Jan 2018</i>	<i>The Impact of Artificial Intelligence in Business</i>
INFOMAG <i>Jan 2011</i>	<i>Digital Turks</i>
PC World <i>October 2003</i>	<i>Microsoft Looks in the Crystal Ball: Research Chief Demonstrates Magic Paper, Virtual Classrooms, and Other Projects</i>
CNN <i>October 2003</i>	<i>Breathing Life into Messy Sketches</i>
New Scientist <i>September 2003</i>	<i>Smart Software Makes Sense of Rough Sketches</i>
Mass HighTech <i>July 2003</i>	<i>MIT's Tablet Tech Gets a Look-See from Microsoft</i>