

## Assoc. Prof. CENGİZ ACARTÜRK

### Personal Information

**Office Phone:** [+90 312 210 3741](tel:+903122103741)

**Email:** [acarturk@metu.edu.tr](mailto:acarturk@metu.edu.tr)

**Web:** <https://www.acarturk.net>

**Address:** ODTÜ Enformatik Enstitüsü Sekreterliği 06800 Ankara

### International Researcher IDs

ScholarID: yIBsyVcAAAAJ

ORCID: 0000-0002-5443-6868

Publons / Web Of Science ResearcherID: B-5751-2012

ScopusID: 25652940800

Yoksis Researcher ID: 110196

### Education Information

Doctorate, Universitaet Hamburg, Department of Informatics, Center for Intelligent Systems and Robotics (ISR), Germany 2006 - 2010

Postgraduate, Middle East Technical University, Graduate School of Informatics, Cognitive Science, Turkey 2003 - 2005

Undergraduate, Middle East Technical University, Faculty of Engineering, Makine Mühendisliği Bölümü, Turkey 1992 - 1998

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Multimodal comprehension of graph-text constellations: An information processing perspective, Universitaet Hamburg, Knowledge And Language Processing, 2010

Postgraduate, Gradient characteristics of the unaccusative/Unergative distinction in Turkish: An experimental investigation, Middle East Technical University, Graduate School of Informatics, Cognitive Science, 2005

### Research Areas

Informatics, Cognitive Science, Information Technologies, Computer Sciences, Information Security and Reliability, Human Computer Interaction

### Academic Titles / Tasks

Associate Professor, Middle East Technical University, Graduate School of Informatics, Cognitive Science, 2018 - Continues

Assistant Professor, Middle East Technical University, Graduate School of Informatics, Cognitive Science, 2012 - 2018

## Academic and Administrative Experience

Middle East Technical University, Graduate School of Informatics, Cognitive Science, 2013 - Continues

Head of Department, Middle East Technical University, Graduate School of Informatics, Cybersecurity, 2017 - 2019

Middle East Technical University, Graduate School of Informatics, Cognitive Science, 2015 - 2017

## Courses

Visual Cognition, Postgraduate, 2018 - 2019

## Advising Theses

ACARTÜRK C., Static malware detection using stacked bi-directional LSTM, Postgraduate, D.DEMİRCİ(Student), 2021

ACARTÜRK C., Breathing patterns during reading speech in Turkish, Postgraduate, G.EŞDUR(Student), 2021

ACARTÜRK C., Analysis of password attacks from the perspective of the attacker by multiple honeypots, Postgraduate, K.AYDIN(Student), 2021

ACARTÜRK C., Malware detection using transformers-based model GPT-2, Postgraduate, N.ŞAHİN(Student), 2021

ACARTÜRK C., An investigation of Turkish static spatial semantics in terms of expression variety: An eye tracking study, Postgraduate, Ş.NUR(Student), 2021

ACARTÜRK C., Evaluating dance sport for expertise: A classification approach based on verbal descriptions, Postgraduate, A.CAN(Student), 2021

ACARTÜRK C., Technology acceptance model to evaluate factors affecting adoption of the industrial internet of things (IIOT) by the industrial professionals, Postgraduate, S.SELÇUK(Student), 2021

ACARTÜRK C., Prediction of words in Turkish sentences by LSTM-based language modeling, Postgraduate, A.CAN(Student), 2021

ACARTÜRK C., Malicious code detection: Run trace analysis by LSTM, Postgraduate, M.ŞIRLANCI(Student), 2021

Kalkan S., Acartürk C., A gaze-centered multimodal approach to face-to-face interaction, Doctorate, Ü.ARSLAN(Student), 2020

ACARTÜRK C., Eye tracking for interactive accessibility: a usability analysis of communication interfaces, Postgraduate, K.Sergen(Student), 2020

ACARTÜRK C., An investigation of interactions with conversational violations: Insights from visual perception and Gricean Maxim violations, Postgraduate, B.Çağiltay(Student), 2020

Acartürk C., ÇAKIR M. P., The role of visual features in text-based captchas: an fnirs study for usable security, Postgraduate, E.MÜLAZİMOĞLU(Student), 2020

ACARTÜRK C., THE ROLE OF EXPERTISE ON CODE REVIEW FOR SECURITY: AN EYE TRACKING STUDY, Postgraduate, U.KAPLAN(Student), 2019

Acartürk C., Continuous improvement on maturity and capability of security operation centers, Postgraduate, E.SUAT(Student), 2019

Acartürk C., Automatic detection of cyber security events from turkish twitter stream and turkish newspaper data, Postgraduate, Ö.URAL(Student), 2019

Acartürk C., Multi-sensory perception in virtual world animation using McGurk effect, Postgraduate, B.ALLAHGHOLIPOUR(Student), 2019

ACARTÜRK C., An experimental investigation of ICT expertise by gaze analysis, Postgraduate, E.KAYA(Student), 2019

Acartürk C., Detecting turkish phishing attacks with machine learning classifiers, Postgraduate, M.TURHANLAR(Student), 2019

Acartürk C., MODELLING THE EFFECTS OF MALWARE PROPAGATION ON MILITARY OPERATIONS BY USING BAYESIAN NETWORK FRAMEWORK, Postgraduate, Z.ŞENGÜL(Student), 2019

Acartürk C., The effect of kinemorphs on f-formation shapes: An investigation on human robot interaction in virtual reality, Postgraduate, G.ÖZEN(Student), 2019

Acartürk C., Bozşahin H. C., AN INVESTIGATION OF GRAMMATICAL PATTERNS IN USER PASSWORDS: A PROBABILISTIC CONTEXT-FREE GRAMMAR APPROACH , Postgraduate, R.KAAN(Student), 2018

ACARTÜRK C., Effects of a DDoS attack on a military operation, Postgraduate, L.KILIÇ(Student), 2018

ACARTÜRK C., Recurrence quantification analysis of group eye tracking data, Postgraduate, M.Tajaddini(Student), 2018

ACARTÜRK C., Eye movement control in Persian: a corpus-analytic approach, Postgraduate, F.Soleymani(Student), 2018

ACARTÜRK C., Eye movement control in persian reading:A corpus-analytic approach, Postgraduate, F.SOLEYMANI(Student), 2018

ACARTÜRK C., Recurrence quantification analysis of eye tracking data, Postgraduate, M.TAJADDINI(Student), 2018

ACARTÜRK C., An experimental investigation of change blindness by group eye tracking paradigm, Postgraduate, A.YASEMİN(Student), 2018

ACARTÜRK C., Deictic gaze in virtual environments, Postgraduate, E.YILMAZ(Student), 2018

ACARTÜRK C., The effects of word length and suffixation on eye movement control in Turkish reading, Postgraduate, T.NUR(Student), 2017

ACARTÜRK C., The use and acceptance of information and communication technologies by senior citizens: A technology acceptance model (tam) for Turkish population, Postgraduate, H.GÜNER(Student), 2017

ACARTÜRK C., Perceptual span in turkish reading: A study on parafoveal information intake, Postgraduate, Z.ORMANOĞLU(Student), 2017

ACARTÜRK C., Comparing mobile game interaction methods in terms of player engagement: Gaze and voice commanded control method vs. touchscreen controls, Postgraduate, M.ÇAĞKAN(Student), 2017

ACARTÜRK C., Effect of goal orientation and different human computer interaction modalities on users' engagement, Postgraduate, M.FAL(Student), 2016

ACARTÜRK C., Group eye tracking, Postgraduate, O.DENİZ(Student), 2016

ACARTÜRK C., ZEYREK BOZŞAHİN D., Achievement in arithmetic word problems in adults: The role of working memory, Postgraduate, F.DEMİREL(Student), 2016

ACARTÜRK C., Eye movement control in Turkish: a corpus-analytic approach, Postgraduate, F.Beken(Student), 2015

BOZŞAHİN H. C., ACARTÜRK C., Power law distributions, self-organizing behavior and popularity, Postgraduate, D.GÖZDE(Student), 2015

ACARTÜRK C., Simplification in graph sketching: a comparison of rule based graph generation and human sketching, Postgraduate, C.KERİMOĞLU(Student), 2015

ACARTÜRK C., Automated coherence detection with term-distance pat extraction of the co-occurrence matrix of a document, Postgraduate, H.AĞIN(Student), 2015

ACARTÜRK C., Automated coherence detection with term-distance path extraction of the co-occurrence matrix of a document, Postgraduate, H.Ağın(Student), 2015

ACARTÜRK C., Eye movement control in Turkish reading: A corpus-analytic approach, Postgraduate, F.BEKEN(Student), 2015

ACARTÜRK C., ZEYREK BOZŞAHİN D., Frequency and length effects of words on fixation durations in Turkish sentence reading, Postgraduate, E.EREN(Student), 2014

BAYKAL N., ACARTÜRK C., Comparison of classification algorithms for mobile malware detection: market metadata as input source, Postgraduate, N.Baltacı(Student), 2014

ACARTÜRK C., Communication through diagrams:Division of labor between gestures and arrows, Postgraduate, M.COŞKUN(Student), 2014

ACARTÜRK C., BAYKAL N., A comparison of classification algorithms for mobile malware detection: Market metadata as input source, Postgraduate, N.BALTACI(Student), 2014

ACARTÜRK C., The effect of context luminance on contrast perception, Postgraduate, Z.PAMİR(Student), 2014

ACARTÜRK C., TEMÜRCÜ C., A comparison of comprehensibility between controlled Turkish and graphical representations, Postgraduate, M.CANPOLAT(Student), 2013

ACARTÜRK C., ZEYREK BOZŞAHİN D., An experimental study on abstract anaphora resolution in Turkish written discourse, Postgraduate, R.ERGİN(Student), 2012

ACARTÜRK C., ÇAĞILTAY K., The effects of coherence of the image used in the graphical password scheme in terms of usability and security, Postgraduate, Ü.ARSLAN(Student), 2012

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **The PSR corpus: A Persian sentence reading corpus of eye movements**  
Tekbudak Z. S., Purmohammad M., Özkan A., Acartürk C.  
Behavior Research Methods, vol.57, no.1, 2025 (SSCI)
- II. **User performance and engagement in multi-user gaming Environments: An experimental investigation through the group eye tracking (GET) paradigm**  
Acartürk C., Fal M., Perit Çakır M.  
Entertainment Computing, vol.51, 2024 (SCI-Expanded)
- III. **TURead: An eye movement dataset of Turkish reading**  
Acartürk C., Özkan A., Pekçetin T. N., Ormanoğlu Z., KIRKICI B.  
Behavior Research Methods, vol.56, no.3, pp.1793-1816, 2024 (SSCI)
- IV. **A Naturalistic Setup for Presenting Real People and Live Actions in Experimental Psychology and Cognitive Neuroscience Studies**  
Pekçetin T. N., Evsen Ş., Pekçetin S., Acarturk C., Urgen B. A.  
Journal of Visualized Experiments, vol.2023, no.198, 2023 (SCI-Expanded)
- V. **Malicious code detection in android: the role of sequence characteristics and disassembling methods**  
GÜRKAN BALIKÇIOĞLU P., ŞIRLANCI M., ACAR KÜÇÜK Ö., ULUKAPI B., Turkmen R. K., ACARTÜRK C.  
INTERNATIONAL JOURNAL OF INFORMATION SECURITY, vol.22, no.1, pp.107-118, 2023 (SCI-Expanded)
- VI. **Interdisciplinarity in Cognitive Science: A Document Similarity Analysis**  
Alasehir O., Acarturk C.  
Cognitive science, vol.46, no.12, 2022 (SSCI)
- VII. **Expanding horizons of cross-linguistic research on reading: The Multilingual Eye-movement Corpus (MECO)**  
Siegelman N., Schroeder S., ACARTÜRK C., Ahn H., Alexeeva S., Amenta S., Bertram R., Bonandrini R., Brysbaert M., Chernova D., et al.  
BEHAVIOR RESEARCH METHODS, vol.54, no.6, pp.2843-2863, 2022 (SSCI)
- VIII. **IDEST: International Database of Emotional Short Texts**  
Kaakinen J. K., Werlen E., Kammerer Y., ACARTÜRK C., Aparicio X., Baccino T., Ballenghein U., Bergamin P., Castells N., Costa A., et al.  
PLoS ONE, vol.17, no.10 October, 2022 (SCI-Expanded)
- IX. **Performance in the Workplace: a Critical Evaluation of Cognitive Enhancement**  
ACARTÜRK C., MÜCEN B.  
NANOETHICS, vol.16, no.1, pp.107-114, 2022 (SCI-Expanded)
- X. **Static Malware Detection Using Stacked BiLSTM and GPT-2**  
Demirci D., Sahin N., Sirlancis M., ACARTÜRK C.  
IEEE ACCESS, vol.10, pp.58488-58502, 2022 (SCI-Expanded)
- XI. **Multimodal communication in instructional settings: An investigation of the functional roles of gestures and arrows**  
Acarturk C., Coskun M., EMİL S.  
REVISTA SIGNOS, vol.54, no.107, pp.867-892, 2021 (AHCI)
- XII. **Integrating Mobile Multimodal Interactions based on Programming By Demonstration**  
Bellal Z., Elouali N., Benslimane S. M., ACARTÜRK C.  
INTERNATIONAL JOURNAL OF HUMAN-COMPUTER INTERACTION, vol.37, no.5, pp.418-433, 2021 (SCI-Expanded)
- XIII. **Speech Driven Gaze in a Face-to-Face Interaction**  
Arslan Aydin U., KALKAN S., ACARTÜRK C.  
FRONTIERS IN NEUROBOTICS, vol.15, 2021 (SCI-Expanded)
- XIV. **Eye movement control in Turkish sentence reading**  
Özkan A., Beken Fikri F., Kırkıcı B., Kliegl R., Acartürk C.  
QUARTERLY JOURNAL OF EXPERIMENTAL PSYCHOLOGY, vol.74, no.2, pp.377-397, 2021 (SCI-Expanded)
- XV. **Anomaly-Based Intrusion Detection by Machine Learning: A Case Study on Probing Attacks to an**

## **Institutional Network**

Tufan E., TEZCAN C., ACARTÜRK C.

IEEE ACCESS, vol.9, pp.50078-50092, 2021 (SCI-Expanded)

- XVI. **The Role of Visual Features in Text-Based CAPTCHAs: An fNIRS Study for Usable Security**  
Mülazimoğlu E., ÇAKIR M. P., ACARTÜRK C.  
Computational Intelligence and Neuroscience, vol.2021, 2021 (SCI-Expanded)
- XVII. **Continuous improvement on maturity and capability of Security Operation Centres**  
ACARTÜRK C., ULUBAY M., Erdur E.  
IET INFORMATION SECURITY, vol.15, no.1, pp.59-75, 2021 (SCI-Expanded)
- XVIII. **Gaze aversion in conversational settings: An investigation based on mock job interview**  
ACARTÜRK C., Indurkya B., Nawrocki P., Sniezynski B., Jarosz M., USAL K. A.  
JOURNAL OF EYE MOVEMENT RESEARCH, vol.14, no.1, 2021 (SCI-Expanded)
- XIX. **Malicious Code Detection: Run Trace Output Analysis by LSTM**  
ACARTÜRK C., ŞIRLANCI M., GÜRKAN BALIKÇIOĞLU P., Demirci D., Sahin N., ACAR KÜÇÜK Ö.  
IEEE ACCESS, vol.9, pp.9625-9635, 2021 (SCI-Expanded)
- XX. **The use and acceptance of ICT by senior citizens: a comparison of technology acceptance model (TAM) for elderly and young adults**  
Guner H., ACARTÜRK C.  
UNIVERSAL ACCESS IN THE INFORMATION SOCIETY, vol.19, no.2, pp.311-330, 2020 (SCI-Expanded)
- XXI. **Towards a Multimodal Model of Cognitive Workload Through Synchronous Optical Brain Imaging and Eye Tracking Measures**  
Isbilir E., ÇAKIR M., ACARTÜRK C., Tekerek A. S.  
Frontiers in Human Neuroscience, vol.13, 2019 (SCI-Expanded)
- XXII. **Multi-authoring and its impact on university rankings: a case study of CERN effect on Turkish universities**  
ÇAKIR M. P., ACARTÜRK C., Alkan S., Akbulut U.  
STUDIES IN HIGHER EDUCATION, vol.44, no.6, pp.1052-1068, 2019 (SSCI)
- XXIII. **Gender is not simply a matter of black and white, or is it?**  
Semin G. R., Palma T., ACARTÜRK C., Dziuba A.  
PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES, vol.373, no.1752, 2018 (SCI-Expanded)
- XXIV. **MAGiC: A Multimodal Framework for Analysing Gaze in Dyadic Communication**  
Aydin U. A., Kalkan S., Acartürk C.  
JOURNAL OF EYE MOVEMENT RESEARCH, vol.11, 2018 (SCI-Expanded)
- XXV. **User interaction in hands-free gaming: a comparative study of gaze-voice and touchscreen interface control**  
Uludagli M. C., ACARTÜRK C.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.26, no.4, pp.1967-1976, 2018 (SCI-Expanded)
- XXVI. **Secondary-Task Effects on Learning With Multimedia: An Investigation Through Eye-Movement Analysis**  
ACARTÜRK C., ÖZÇELİK E.  
JOURNAL OF EXPERIMENTAL EDUCATION, vol.85, no.1, pp.126-141, 2017 (SSCI)
- XXVII. **Switching reference frame preferences during verbally assisted haptic graph comprehension**  
Alacam O., Habel C., ACARTÜRK C.  
COGNITIVE PROCESSING, vol.16, 2015 (SSCI)
- XXVIII. **A comparative analysis of global and national university ranking systems**  
ÇAKIR M. P., ACARTÜRK C., Alasehir O., Cilingir C.  
SCIENTOMETRICS, vol.103, no.3, pp.813-848, 2015 (SCI-Expanded)
- XXIX. **URAP-TR: a national ranking for Turkish universities based on academic performance**  
Alasehir O., ÇAKIR M. P., ACARTÜRK C., BAYKAL N., AKBULUT U.

SCIENTOMETRICS, vol.101, no.1, pp.159-178, 2014 (SCI-Expanded)

XXX. **Towards a systematic understanding of graphical cues in communication through statistical graphs**  
ACARTÜRK C.

JOURNAL OF VISUAL LANGUAGES AND COMPUTING, vol.25, no.2, pp.76-88, 2014 (SCI-Expanded)

XXXI. **Reducing the spatial distance between printed and online information sources by means of mobile technology enhances learning: Using 2D barcodes**

ÖZÇELİK E., ACARTÜRK C.

COMPUTERS & EDUCATION, vol.57, no.3, pp.2077-2085, 2011 (SCI-Expanded)

XXXII. **Multimodal comprehension of language and graphics Graphs with and without annotations**

ACARTÜRK C., CHRISTOPHER H., ÇAĞILTAY K., ÖZGE A.

Journal of Eye Movement Research, vol.1, pp.1-15, 2008 (SCI-Expanded)

## Articles Published in Other Journals

I. **Cohesion in multimodal documents Effects of cross referencing**

ACARTÜRK C., MAİTE T., CHRISTOPHER H.

Information Design Journal, vol.20, pp.98-110, 2013 (Scopus)

II. **Causal inference in graph text constellations Designing verbally annotated graphs**

CHRISTOPHER H., ACARTÜRK C.

TSINGHUA SCIENCE AND TECHNOLOGY, vol.16, pp.7-12, 2011 (Scopus)

## Books & Book Chapters

I. **Analysis of Turkish referring expressions in a situated dialog context: The case of nominal demonstratives**

Büyüktekin F., Çakir M. P., Acartürk C.

in: Discourse Meaning, Zeyrek Deniz, Özge Umut, Editor, De Gruyter, Berlin, pp.103-136, 2020

## Refereed Congress / Symposium Publications in Proceedings

I. **Real-World Implicit Association Task for Studying Mind Perception: Insights for Social Robotics**

Pekçetin T. N., Evsen Ş., Pekçetin S., Acartürk C., Urgen B. A.

19th Annual ACM/IEEE International Conference on Human-Robot Interaction, HRI 2024, Colorado, United States Of America, 11 - 15 March 2024, pp.837-841

II. **A Naturalistic Laboratory Setup for Real-World HRI Studies**

Pekçetin T. N., Evsen Ş., Pekçetin S., Karaduman T. D., Acartürk C., Urgen B. A.

19th Annual ACM/IEEE International Conference on Human-Robot Interaction, HRI 2024, Colorado, United States Of America, 11 - 15 March 2024, pp.1296-1298

III. **Investigating Mind Perception in HRI through Real-Time Implicit and Explicit Measurements**

Pekçetin T. N., Acartürk C., Urgen B. A.

19th Annual ACM/IEEE International Conference on Human-Robot Interaction, HRI 2024, Colorado, United States Of America, 11 - 15 March 2024, pp.139-141

IV. **Keystroke Transcription from Acoustic Emanations Using Continuous Wavelet Transform**

Ozkan A., Günel Kiliç B., Acartürk C.

5th International Conference on Machine Learning for Cyber Security, ML4CS 2023, Yanuca Island, Fiji, 4 - 06 December 2023, vol.14541 LNCS, pp.1-16

V. **Studying mind perception in social robotics implicitly: The need for validation and norming**

Pekçetin T. N., Barinal B., Tunç J., Acartürk C., Urgen B. A.

18th Annual ACM/IEEE International Conference on Human-Robot Interaction, HRI 2023, Stockholm, Sweden, 13 - 16 March 2023, pp.202-210

- VI. **An Eye Tracking Analysis of Conversational Violations in Dyadic and Collaborative Interaction**  
Cagiltay B., ACARTÜRK C.  
16th International Conference on Augmented Cognition (AC) Held as Part of the 24th International Conference on Human-Computer Interaction (HCII), ELECTR NETWORK, 26 June - 01 July 2022, vol.13310, pp.34-47
- VII. **Goal Orientation in Human Computer Interaction Tasks: An Experimental Investigation of User Engagement and Interaction Modalities**  
Fal M., ACARTÜRK C.  
15th International Conference on Augmented Cognition, AC 2021, held as part of the 23rd International Conference, HCI International 2021, Virtual, Online, 24 - 29 July 2021, vol.12776 LNAI, pp.147-157
- VIII. **Automatic detection of cyber security events from turkish twitter stream and newspaper data**  
Ural Ö., ACARTÜRK C.  
7th International Conference on Information Systems Security and Privacy, ICISSP 2021, Virtual, Online, 11 - 13 February 2021, pp.66-76
- IX. **Cyber Warfare Integration to Conventional Combat Modeling: A Bayesian Framework**  
Sengul Z., ACARTÜRK C.  
14th International Conference on Information Security and Cryptology, ISCTURKEY 2021, Ankara, Turkey, 2 - 03 December 2021, pp.1-6
- X. **Team ReadMe at CMCL 2021 Shared Task: Predicting Human Reading Patterns by Traditional Oculomotor Control Models and Machine Learning**  
Balkoca A., Algan A. C., ACARTÜRK C., Çöltekin Ç.  
11th Workshop on Cognitive Modeling and Computational Linguistics, CMCL 2021, Virtual, Online, 10 June 2021, pp.134-140
- XI. **The role of gaze as a deictic cue in human robot interaction**  
Yılmaz E., Fal M., ACARTÜRK C.  
14th International Conference on Augmented Cognition, AC 2020, held as part of the 22nd International Conference on Human-Computer Interaction, HCII 2020, Copenhagen, Denmark, 19 - 24 July 2020, pp.466-478
- XII. **Towards a Multimodal Model of Cognitive Workload through Synchronous Optical Brain Imaging and Eye Tracking Measures**  
İşbilir E., ÇAKIR M. P., ACARTÜRK C., Tekerek A. Ş.  
2nd International Neuroergonomics Conference, 27 - 29 June 2018
- XIII. **Information and Communication Technologies in Education Digital Literacy, Implications for Universities and Academic Rankings**  
ACARTÜRK C.  
Third University Mission International Conference, Russia, 30 November - 01 December 2018
- XIV. **Multimodal Analysis of Gaze in VR Human-Avatar Interaction**  
ACARTÜRK C.  
DMEM-2018 2nd International Workshop Discourse, Multimodality and Experimental Methods, Chile, 6 - 09 November 2018
- XV. **Inevitable Cycle of Higher Education (ICoHE): Exploring the Impact of World Ranking Systems on Higher Education Institutions and their Public Communication on University Performance.**  
EMİL S., ACARTÜRK C.  
European Conference on Educational Research, 3 - 07 September 2018
- XVI. **Group eye tracking (GET) paradigm for investigating interaction under social context**  
ACARTÜRK C., ÇAKIR M. P.  
10th International Conference on Applied Human Factors and Ergonomics (AHFE 2019), 21 - 25 July 2018
- XVII. **Visual behaviour during perception of architectural drawings: Differences between architects and non architects**  
Albayrak Colaço C., ACARTÜRK C.  
Eighth International Conference on Design Computing and Cognition, Milan, Italy, 2 - 04 July 2018, pp.417-436

- XVIII. Perceptual Span in Turkish Reading: A Study on Parafoveal Information Intake**  
ORMANOĞLU Z., ACARTÜRK C., Özkan A., KILIÇ Ö., Bozkurt T. N.  
International Symposium on Brain and Cognitive Science, 06 May 2018
- XIX. Eye tracking in real and virtual interaction environments: Studies on deictic functions of gaze**  
ACARTÜRK C.  
1st International Workshop on Discourse, Multimodality and Experimental methods, 23 - 27 October 2017
- XX. Dynamic gaze analysis: An application environment for face-to-face communication**  
Ülkü A. A., Kalkan S., Acartürk C.  
2017 International Artificial Intelligence and Data Processing Symposium (IDAP), Malatya, Turkey, 16 - 17 September 2017
- XXI. Group Eye Tracking (GET) Applications in Gaming and Decision Making**  
ACARTÜRK C., TAJADDİNİ M., KILIÇ Ö.  
ECEM 20th European Conference on Eye Movements, Wuppertal, Germany, 20 - 24 August 2017, pp.35
- XXII. The Role of Letter Frequency on Eye Movements in Sentential Pseudoword Reading**  
ACARTÜRK C., KILIÇ Ö., KIRKICI B., CAN BUĞLALILAR B., Özkan A.  
the Annual Meeting of the Cognitive Science Society, 26 - 29 July 2017
- XXIII. A gaze-centered multimodal approach to human-human social interaction**  
Acartürk C., Kalkan S., Aydin U. A.  
3rd IEEE International Conference on Cybernetics, CYBCONF 2017, Exeter, United Kingdom, 21 - 23 June 2017
- XXIV. Does the Strength of Sentiment Matter? A Regression Based Approach on Turkish Social Media**  
Ertugrul A. M., Onal I., ACARTÜRK C.  
22nd International Conference on Applications of Natural Language to Information Systems (NLDB), Liege, Belgium, 21 - 23 June 2017, vol.10260, pp.149-155
- XXV. EyeTracking in Reading Research: Challenges for Agglutinative Languages**  
ACARTÜRK C., KIRKICI B.  
18th International Conference on Turkish Linguistics (ICTL), 24 - 26 February 2017
- XXVI. Eye movements in Turkish Pseudoword Reading**  
ACARTÜRK C., CAN BUĞLALILAR B., KILIÇ Ö., KIRKICI B., ÖZKAN A.  
18th International Conference on Turkish Linguistics (ICTL), 24 - 26 February 2017
- XXVII. Reading in an Agglutinative Language: Insights from Turkish.**  
KIRKICI B., ACARTÜRK C.  
18th International Conference on Turkish Linguistics (ICTL), 24 - 26 February 2017
- XXVIII. Group Eye Tracking GET Paradigm for Social Cognition Research**  
ACARTÜRK C., FAL M.  
The colloquium on multiple eye tracker classrooms, Lund, Sweden, 25 - 27 October 2016
- XXIX. Reading in Agglutinative Languages Silent Reading and Oral Reading in Turkish**  
ACARTÜRK C., ÖZKAN A., TUĞÇE NUR B.  
SWAET 2016 (ScandinavianWorkshop on Applied Eye Tracking), Turku, Finland, 19 - 21 June 2016
- XXX. GET Group Eye Tracking A Multi User Eye Tracking Platform for Social Interaction**  
ACARTÜRK C., DENİZ O., FAL M., DUMITRU M., TAJADDINI M.  
SWAET 2016 (ScandinavianWorkshop on Applied Eye Tracking), Turku, Finland, 19 - 21 June 2016
- XXXI. Referring expressions in communication through line graphs A comparative analysis of verbal descriptions**  
ACARTÜRK C.  
Ankara Papers in Turkish and Turkic Linguistics, 1 - 03 November 2015, pp.306-315
- XXXII. "Read That Article": Exploring Synergies between Gaze and Speech Interaction**  
Vieira D., Freitas J. D., ACARTÜRK C., Teixeira A., Sousa L., Silva S., Candeias S., Dias M. S.  
17th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2015), Lisbon, Portugal, 26 - 28 October 2015, pp.341-342
- XXXIII. Gaze based Human Computer Interaction Group Eye Tracking GET Platform**  
ACARTÜRK C.



3rd SUWMIAC – Summer Workshop Microsoft – ISCTE-IUL on Applied Computing, LIZBON, Portugal, 15 October 2015

- XXXIV. **Gestures production under instructional context The role of mode of instruction**  
MELDA C., ACARTÜRK C.  
37th Annual Conference of the Cognitive Science Society, Los-Angeles, Chile, 22 - 25 July 2015
- XXXV. **GET Social Group Eye Tracking environment for social gaze analysis**  
DENİZ O., FAL M., BOZKURT U., ACARTÜRK C.  
18th European Conference on Eye Movements, VIYANA, Austria, 16 - 21 August 2015
- XXXVI. **Reading in agglutinating languages The role of morphology on eye movements oral presentation abstract**  
DENİZ O., FAL M., BOZKURT U., ACARTÜRK C.  
18th European Conference on Eye Movements, VIYANA, Austria, 16 - 21 August 2015
- XXXVII. **Eye Movement Control in Turkish Word Length and Morphological Complexity Effects on Fixation Landing Positions**  
ACARTÜRK C., Beken F., KIRKICI B.  
18th European Conference on Eye Movements (ECEM 2015), Germany, 16 - 21 August 2015
- XXXVIII. **Eye movement control in Turkish Word length and morphological complexity effects on fixation landing positions poster abstract**  
DENİZ O., FAL M., BOZKURT U., ACARTÜRK C.  
18th European Conference on Eye Movements, VIYANA, Austria, 16 - 21 August 2015
- XXXIX. **Elderly Speech-Gaze Interaction State of the Art and Challenges for Interaction Design**  
ACARTÜRK C., Freitas J., Fal M., Dias M. S.  
9th International Conference on Universal Access in Human-Computer Interaction (UAHCI) Held as Part of 17th International Conference on Human-Computer Interaction (HCI), California, United States Of America, 2 - 07 August 2015, vol.9175, pp.3-12
- XL. **Haptic exploration patterns in virtual line graph comprehension**  
DENİZ O., MEHMETCAN F., ACARTÜRK C.  
17th International Conference on Human-Computer Interaction. Design, User Experience, and Usability. User Experience Design for Diverse Interaction Platforms and Environments, Los-Angeles, Chile, 2 - 07 August 2015
- XLI. **Methodological Challenges in Rankings How Can Scientometrics Better Inform University Rankings**  
ACARTÜRK C., ÇAKIR M. P.  
15th INTERNATIONAL CONFERENCE ON SCIENTOMETRICS & INFORMETRICS, İstanbul, Turkey, 29 June - 03 July 2015
- XLII. **Saçılım analizi temelli bir göz hareketi olay belirleme algoritması**  
DENİZ O., MEHMETCAN F., ACARTÜRK C.  
SIU 2015 IEEE 23. Sinyal İşleme ve İletişim Uygulamaları Kurultayı, Malatya, Turkey, 16 - 19 May 2015, pp.463-466
- XLIII. **Density Based Eye Movement Event Detection Algorithm (In English)**  
Deniz O., Fal M., ACARTÜRK C.  
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.463-466
- XLIV. **Çokkipli etkileşimde mevcut eğilimler Göz izleme teknikleri ve bütüncü kipler üzerine bir değerlendirme**  
ACARTÜRK C.  
Sinyal İşleme Uygulamaları SIU 2015 SIU 2015 Çevresel Zeka ve Sosyal Sinyal İşleme Oturumu, Malatya, Turkey, 17 May - 17 January 2015
- XLV. **The Analysis of Feature Selection Methods and Classification Algorithms in Permission Based Android Malware Detection**  
Pehlivan U., Baltacı N., ACARTÜRK C., BAYKAL N.  
IEEE Symposium on Computational Intelligence in Cyber Security, Florida, United States Of America, 9 - 12 December 2014, pp.81-88
- XLVI. **The IRIS Project A liaison between industry and academia towards natural multimodal**

## **communication**

FREITAS J., SARA C., MIGUEL S. D., EDUARDO L., ALFONSO O., ANTONIO T., SAMUEL S., ACARTÜRK C., VERONICA O. IberSPEECH 2014 – VIII Jornadas en Tecnología del Habla and IV Iberian SLTech Workshop - IberSPEECH 2014, LAS PALMAZ DE GRAN CANARIA, Spain, 19 - 21 November 2014, pp.338-347

- XLVII. **Referring expressions in discourse about haptic line graphs**  
DENİZ O., MEHMETCAN F., ACARTÜRK C.  
18th Workshop on the Semantics and Pragmatics of Dialogue, SemDial 2014 – DialWatt, Edinburgh, Saint Helena, 1 - 03 September 2014, pp.7-16
- XLVIII. **Producing Verbal Descriptions for Haptic Line Graph Explorations poster abstract**  
DENİZ O., MEHMETCAN F., ACARTÜRK C.  
18th Workshop on the Semantics and Pragmatics of Dialogue, SemDial 2014 – DialWatt, Edinburgh, Saint Helena, 1 - 03 September 2014, pp.205-207
- XLIX. **Verbally assisted haptic graph comprehension The role of taking initiative in a joint activity**  
DENİZ O., MEHMETCAN F., ACARTÜRK C.  
2nd European and the 5th Nordic Symposium on Multimodal Communication, Estonia, 6 - 08 August 2014
- L. **The distinction between unaccusative and unergative verbs in Turkish An offline and an eye tracking study of split intransitivity**  
MELDA C., ACARTÜRK C.  
36th Annual Conference of the Cognitive Science Society, QUEBEC CITY, Canada, 23 - 26 July 2014, pp.1832-1837
- LI. **Developing a Verbal Assistance System for Line Graph Comprehension**  
ACARTÜRK C., Alacam O., Habel C.  
3rd International Conference on Design, User Experience, and Usability (DUXU), Heraklion, Greece, 22 - 27 June 2014, vol.8518, pp.373-382
- LII. **Eye voice span in agglutinative languages A case study in Turkish poster abstract**  
TURAN S., ACARTÜRK C.  
17th European Conference on Eye Movements, Lund, Sweden, 11 - 16 August 2013, pp.340
- LIII. **The role of visual coherence in graphical passwords**  
ÖZGE A., CHRISTOPHER H., ACARTÜRK C.  
35th Annual Conference of the Cognitive Science Society, Berlin, Germany, 31 July - 03 August 2013, pp.1774-1779
- LIV. **Gesture and Language Production in Communication through Bar Graphs**  
ÖZGE A., CHRISTOPHER H., ACARTÜRK C.  
35th Annual Conference of the Cognitive Science Society, Berlin, Germany, 31 July - 03 August 2013, pp.1714-1719
- LV. **Verbally assisted comprehension of haptic line graphs Referring expressions in a collaborative activity**  
ÇAKIR M. P., ACARTÜRK C.  
CogSci 2013 Workshop on Production of Referring Expressions: Bridging the gap between cognitive and computational approaches to reference, Berlin, Germany, 31 July 2013
- LVI. **Micro analysis of referring expressions in a dual eye tracking paradigm Two case studies on voice and chat mediated interaction**  
ÇAKIR M. P., ACARTÜRK C.  
CogSci 2013 Workshop on Production of Referring Expressions: Bridging the gap between cognitive and computational approaches to reference, Berlin, Germany, 31 July 2013
- LVII. **Towards designing audio assistance for comprehending haptic graphs A multimodal perspective**  
DENİZ O., MEHMETCAN F., ACARTÜRK C.  
15th International Conference on Human-Computer Interaction, Universal Access in Human-Computer Interaction: Design Methods, Tools, and Interaction Techniques for eInclusion, Part I, Lecture Notes in Computer Science, LAS VEGAS, United States Of America, 21 - 26 July 2013, vol.8009, pp.409-418
- LVIII. **Investigation of haptic line graph comprehension through co production of gesture and language**  
DENİZ O., MEHMETCAN F., ACARTÜRK C.  
TiGeR 2013 Tilburg Gesture Research Meeting. The combined meeting of the 10th International Gesture Workshop (GW) and the 3rd Gesture and Speech in Interaction (GESPIN) conference, Tilburg, Netherlands, 19 - 21 June 2013

- LIX. **Gestures in communication through line graphs**  
ÖZGE A., CHRISTOPHER H., ACARTÜRK C.  
34th Annual Conference of the Cognitive Science Society, Sapporo, Japan, 1 - 04 August 2012, pp.66-71
- LX. **Eye tracking in multimodal comprehension of graphs**  
ACARTÜRK C., CHRISTOPHER H.  
Workshop on Technology-Enhanced Diagrams Research, CANTERBURY, United Kingdom, 02 July 2012, vol.887, pp.11-25
- LXI. **Towards building a corpus of Turkish referring expressions**  
ACARTÜRK C., ÇAKIR M. P.  
Proceedings of the Workshop on Language Resources and Technologies for Turkic Languages. LREC 2012 Language and Resources Evaluation Conference, İstanbul, Turkey, 21 May 2012, pp.1-5
- LXII. **Barkod Teknolojilerinin Eğitimde Kullanımı: Bilişsel Bilimler Çerçevesinde bir Değerlendirme**  
ACARTÜRK C.  
Akademik Blişim 2012, Uşak, Turkey, 1 - 03 February 2012
- LXIII. **Unaccusative unergative distinction in Turkish A connectionist approach**  
MELDA C., ACARTÜRK C.  
23rd International Conference on Computational Linguistics (COLING 2010). The 8th Workshop on Asian Language Resources., PEKİN, China, 21 - 22 August 2010, pp.111-119
- LXIV. **Attributing causality in multimodal language graphics comprehension poster abstract**  
DENİZ O., FAL M., BOZKURT U., ACARTÜRK C.  
ESLP 2009, the Annual Meeting of the Embodied & Situated Language Processing, Rotterdam, Netherlands, 28 - 29 July 2009, pp.60
- LXV. **Eye tracking evidence for multimodal language graphics comprehension The role of integrated conceptual representations**  
DENİZ O., FAL M., BOZKURT U., ACARTÜRK C.  
NODALIDA 2009 Workshop. Multimodal Communication - from Human Behaviour to Computational Models, Odense, Denmark, 14 May 2009, vol.6, pp.9-14
- LXVI. **Multimodal comprehension of graphics with textual annotations The role of graphical means relating annotations and graph lines**  
ACARTÜRK C., CHRISTOPHER H., ÇAĞILTAY K.  
Diagrammatic Representation and Inference, 5th International Conference, Diagrams 2008, Lecture Notes in Artificial Intelligence, HERRSCHING, Germany, 19 - 21 September 2008, vol.5223, pp.335-343
- LXVII. **Multimodal comprehension of graphics with textual annotations: The role of graphical means relating annotations and graph lines**  
Acarturk C., Habel C., ÇAĞILTAY K.  
5th International Conference on Diagrammatic Representation and Inference, Diagrams 2008, Herrsching, Germany, 19 - 21 September 2008, pp.335-343
- LXVIII. **Learning from text and graphs The role of annotations and sensory modality**  
ACARTÜRK C., CHRISTOPHER H., ÇAĞILTAY K., ÖZGE A.  
EARLI Special Interest Group Text and Graphics. Exploiting the Opportunities Learning with Textual, Graphical and Multimodal Representations., Tilburg, Netherlands, 27 - 29 August 2008, pp.13-16
- LXIX. **On reciprocal improvement in multimodal generation Co reference by text and information graphics**  
CHRISTOPHER H., ACARTÜRK C.  
MOG 2007 Workshop on Multimodal Output Generation, Aberdeen, United Kingdom, 25 - 26 January 2007, pp.69-80
- LXX. **The unaccusative unergative distinction in Turkish An experimental investigation**  
ZEYREK BOZŞAHİN D., ACARTÜRK C.  
Advances in Turkish Linguistics. Proceedings of the 12th International Conference on Turkish Linguistics, İzmir, Turkey, 11 - 13 August 2004, pp.325-337
- LXXI. **Görme Engelliler için Web Sayfalarında Erişilebilirliğin Sağlanması**  
ACARTÜRK C., YILDIRIM YÜCEL C.

## Supported Projects

- PEKERİÇLİ M. K., TANYER A. M., ACARTÜRK C., Project Supported by Higher Education Institutions, SANAL GERÇEKLİK VE GÖZ TAKİBİ UYGULAMALARI İLE YBM TABANLI TEHLİKE ANALİZİ SİSTEMİ, 2018 - 2022
- ACARTÜRK C., ÇAKIR M. P., Project Supported by Higher Education Institutions, SOSYAL ETKİLEŞİM ARAŞTIRMALARI İÇİN ÇOKLU GÖZİZLEME YÖNTEMİNİN GELİŞTİRİLMESİ PROJESİ, 2017 - 2022
- Kalkan S., Acartürk C., TUBİTAK Project, Multiuser Eyetracking Platform for Social Gaze, 2017 - 2020
- Acartürk C., Mangen A., TÜBİTAK - AB COST Project, IS1404 - Evolution of reading in the age of digitisation (E-READ), 2014 - 2018
- ÇAKIR M. P., ALAŞEHİR O., ÖMRÜUZUN F., AKKAYA A., BARIŞ B. T., ACARTÜRK C., KOÇAK M., Project Supported by Higher Education Institutions, DÜNYA VE TÜRKİYE ÜNİVERSİTELERİ AKADEMİK PERFORMANSLARININ GENEL BAŞARI KRİTERLERİNE GÖRE VE ALANLAR ÖZELİNDE İNCELENMESİ, 2015 - 2017
- ZEYREK BOZŞAHİN D., ACARTÜRK C., KIRKICI B., TUBİTAK Project, Okumada bilişsel süreçlerin incelenmesi: Göz hareketleri kontrol modellemesi için Türkçe okuma örüntüleri derlemi, 2014 - 2017
- Dönmez M., Acartürk C., FP7 Project, IRIS: Towards Natural Interaction and Communication, 2014 - 2017
- ÇAKIR M. P., ACARTÜRK C., Project Supported by Higher Education Institutions, Sosyal Etkileşim Süreçlerinin Oküler İzdüşümlerinin İkili Göz İzleme Tekniğiyle İncelenmesi, 2014 - 2015
- ACARTÜRK C., Project Supported by Higher Education Institutions, Çok Modaliteli İletişimde Bilisel Süreçlerin İncelenmesi, 2012 - 2014
- BAYKAL N., ÇAKIR M. P., AKKAYA A., Ömrüzun F., GÜREL KÖYBAŞI N. A., BARIŞ B. T., ACARTÜRK C., Koçak M., Project Supported by Higher Education Institutions, Dünya Üniversiteleri Akademik Performanslarının İncelenmesi, 2012 - 2014

## Activities in Scientific Journals

Journal of Eye Movement Research, Committee Member, 2018 - Continues

## Scientific Refereeing

- IEEE ACCESS, Journal Indexed in SCI-E, December 2019
- IEEE ACCESS, Journal Indexed in SCI-E, September 2019
- JOURNAL OF EYE MOVEMENT RESEARCH, Journal Indexed in SCI-E, May 2019
- Computers & Education, Journal Indexed in SSCI, May 2019
- Computers & Education, Journal Indexed in SSCI, April 2019
- Computers In Human Behavior, Journal Indexed in SSCI, February 2019
- JOURNAL OF EYE MOVEMENT RESEARCH, Journal Indexed in SCI-E, February 2019
- JOURNAL OF EYE MOVEMENT RESEARCH, Journal Indexed in SCI-E, December 2018
- COMPUTERS & EDUCATION, SCI Journal, May 2018
- GAZİANTEP ÜNİVERSİTESİ SOSYAL BİLİMLER DERGİSİ, National Scientific Refreed Journal, March 2018
- COMPUTERS & EDUCATION, SCI Journal, March 2018
- ETRA ACM Symposium on Eye Tracking Research & Applications, Conference Paper (Full Text), February 2018
- JOURNAL OF EYE MOVEMENT RESEARCH, Journal Indexed in SCI-E, February 2018

## Metrics

Publication: 108

Citation (WoS): 307

Citation (Scopus): 306

H-Index (WoS): 8

H-Index (Scopus): 7