

Personal Information

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Education Information

Doctorate, Drexel University, College Of Information Science & Technology, United States Of America 2003 - 2009
Under Graduate, Middle East Technical University, Faculty of Arts and Sciences, Department of Mathematics, Turkey
1997 - 2001

Dissertations

Doctorate, How online small groups co-construct mathematical artifacts to do collaborative problem solving, Drexel University, College Of Information Science & Technology, 2009

Academic Titles / Tasks

Assistant 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, 2011 - 2018

Lecturer, Middle East Technical University, Graduate School of Informatics, Cognitive Science, 2010 - 2011

Lecturer PhD, Drexel University, School Of Biomedical Engineering, Science & Health Systems, Biomedical Engineering, 2009 - 2010

Research Assistant, Drexel University, College Of Information Science & Technology, Information Science & Technology, 2003 - 2009

Advising Theses

ÇAKIR M. P. , An Interdisciplinary and Analytical Account of the Relation Between Mindreading and Metacognition, Post Graduate, G.TOPUZ(Student), 2019

ÇAKIR M. P. , Online detection of pilot workload by using FNIR sensors, Post Graduate, M.VURAL(Student), 2018

TEMÜRCÜ C., ÇAKIR M. P. , An investigation of brain-to-brain connectivity patterns during a cooperative fluid intelligence task, Post Graduate, Ç.TAŞCI(Student), 2018

ÇAKIR M. P. , Cognitive, perceptual-motor and social factors in tool making in children, Doctorate, G.GÖNÜL(Student), 2018

ÇAKIR M. P. , Transfer and maintenance effects of n-back working memory training in interpreting students: A behavioural and optical brain imaging study, Doctorate, A.ÖZTÜRK(Student), 2018

ÇAKIR M. P. , Cortical processes underlying metacontrast masking across different contrast polarities, Post Graduate, A.AYDIN(Student), 2018

TEMÜRCÜ C., ÇAKIR M. P. , Demonstratives in turkish: on the pragmatic use of demonstratives in the context of a collaborative problem solving task, Post Graduate, F.BÜYÜKTEKİN(Student), 2018

TEMÜRCÜ C., ÇAKIR M. P. , Decision making under uncertainty: Factors influencing mate selection in a dating application simulation, Post Graduate, A.YEŞİM(Student), 2017

ÇAKIR M. P. , Hyperscanning of brain-to-brain interactions in the prefrontal cortex during a joint sentence reading task: An optical brain imaging study, Doctorate, E.İŞBİLİR(Student), 2016

ÇAKIR M. P. , An empirical examination for collaborative nature of business process modeling, Doctorate, D.FINDIK(Student), 2016

ÖZKAN YILDIRIM S., ÇAKIR M. P. , Using learning analytics to track learning process in virtual math teams (VMT) online

environment, Doctorate, G.AFACAN(Student), 2016

ÇAKIR M. P. , A dual eye tracking study of the influence of color and gaze cues on the use of referring expressions in a situated Farsi dialogue environment, Post Graduate, S.RAZZAGHI(Student), 2015

ÇAKIR M. P. , BAĞÇE S., Epistemology of problem solving and an annotation framework for collaborative problem solving environments, Post Graduate, T.GÜVEN(Student), 2015

ÇAKIR M. P. , Gender and personality differences in cognitive tasks: A performance and mental workload study, Post Graduate, B.BATUN(Student), 2015

ÇAKIR M. P. , An embodied and extended cognitive dynamic field theory (DFT) model for piloting tasks supported with flight records, Post Graduate, Y.KAYGUSUZ(Student), 2015

ÇAKIR M. P. , The role of prefrontal cortex in purchasing decisions: An optical brain imaging study, Post Graduate, O.AŞCI(Student), 2014

ÇAKIR M. P. , BAYKAL N., Bibliometric analysis of clinical medicine publications in Turkey, Post Graduate, M.KOÇAK(Student), 2014

ÇAKIR M. P. , Physiological, psychological and attention related performance problems of shift work system in ASELSAN, Post Graduate, E.BİLGİN(Student), 2014

ÇAKIR M. P. , Usability evaluation of dynamic geometry software through eye tracking and communication breakdown analysis, Post Graduate, S.YAĞMUR(Student), 2014

ÇAKIR M. P. , Examining computer supported collaborative problem solving processes using the dual-eye tracking paradigm, Post Graduate, S.DENİZ(Student), 2013

ÇAKIR M. P. , Neural and ocular correlates of visuospatial problem solving processes, Post Graduate, G.TÜRKMEN(Student), 2013

ÇAKIR M. P. , Yazılım anlamada görselleştirme tekniklerinin değerlendirilmesinde yeni bir yaklaşım, Doctorate, H.ALİ(Student), 2013

ÇAKIR M. P. , A case study of problem solving in eye-tracking, Post Graduate, D.ÖZDEMİR(Student), 2013

ÖZKAN YILDIRIM S., ÇAKIR M. P. , Usability testing of a family medicine information system, Post Graduate, S.ÖZ(Student), 2012

ÇAKIR M. P. , Exploring the effects of working memory capacity, attention, and expertise on situation awareness in a flight simulation environment, Post Graduate, O.ORKAN(Student), 2012

ÇAKIR M. P. , Modeling neurons that can self organize into building blocks and hierarchies: An exploration based on visual systems, Post Graduate, A.GÖZE(Student), 2012

ÇAKIR M. P. , GÖKÇAYD., The interaction of probability learning and working memory, Post Graduate, F.GÖZENMAN(Student), 2012

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **Mapping and clustering analysis on neuroscience literature in Turkey: a bibliometric analysis from 2000 to 2017**
Kocak M., Garcia-Zorita C., Marugan-Lazaro S., ÇAKIR M. P. , Sanz-Casado E.
SCIENTOMETRICS, vol.121, pp.1339-1366, 2019 (Journal Indexed in SCI)
- **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, pp.1052-1068, 2019 (Journal Indexed in SSCI)
- **An investigation of the neural correlates of purchase behavior through fNIRS**
ÇAKIR M. P. , ÇAKAR T., Giriskan Y., Yurdakul D.
EUROPEAN JOURNAL OF MARKETING, vol.52, pp.224-243, 2018 (Journal Indexed in SSCI)
- **Behavioral and Neural Effects of Game-Based Learning on Improving Computational Fluency With Numbers**
ÇAKIR M. P. , Cakir N. A. , Ayaz H., Lee F. J.
ZEITSCHRIFT FÜR PSYCHOLOGIE-JOURNAL OF PSYCHOLOGY, vol.224, pp.297-302, 2016 (Journal Indexed in SSCI)
- **A comparative analysis of global and national university ranking systems**
ÇAKIR M. P. , ACARTÜRK C., Alasehir O., Cilingir C.

SCIENTOMETRICS, vol.103, pp.813-848, 2015 (Journal Indexed in SCI)

- **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, pp.159-178, 2014 (Journal Indexed in SCI)

- **How Does Software Visualization Contribute to Software Comprehension? A Grounded Theory Approach**

Duru H. A. , ÇAKIR M. P. , Isler V.

INTERNATIONAL JOURNAL OF HUMAN-COMPUTER INTERACTION, vol.29, pp.743-763, 2013 (Journal Indexed in SCI)

Refereed Congress / Symposium Publications in Proceedings

- **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

- **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

- **Real-Time Monitoring of Cognitive Workload of Airline Pilots in a Flight Simulator with fNIR Optical Brain Imaging Technology**

ÇAKIR M. P. , Vural M., Koc S. O. , Toktas A.

10th International Conference on Augmented Cognition (AC) Held as Part of 18th International Conference on Human-Computer Interaction (HIC International), Toronto, Canada, 17 - 22 July 2016, vol.9743, pp.147-158

- **Usability Evaluation of a Dynamic Geometry Software Mobile Interface Through Eye Tracking**

YAĞMUR S., ÇAKIR M. P.

3rd International Conference on Learning and Collaboration Technologies (LCT) Held as Part of 18th International Conference on Human-Computer Interaction (HCI International), Toronto, Canada, 17 - 22 July 2016, vol.9753, pp.391-402

- **Neural Correlates of Purchasing Decisions in an Ecologically Plausible Shopping Scenario with Mobile fNIR Technology**

ÇAKIR M. P. , Cakar T., Giriskan Y., Demircioglu A. K.

10th International Conference on Augmented Cognition (AC) Held as Part of 18th International Conference on Human-Computer Interaction (HIC International), Toronto, Canada, 17 - 22 July 2016, vol.9743, pp.135-146

- **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

- **Examining an Online Collaboration Learning Environment with the Dual Eye-Tracking Paradigm: The Case of Virtual Math Teams**

Uzunosmanoglu S. D. , ÇAKIR M. P.

1st International Conference on Learning and Collaboration Technologies (LCT), Heraklion, Greece, 22 - 27 June 2014, vol.8523, pp.462-472

- **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

- **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

- **THE INTERACTION OF PROBABILITY LEARNING AND WORKING MEMORY**

Gozenman F., GÖKÇAYD., ÇAKIR M. P.

20th Annual Meeting of the Cognitive-Neuroscience-Society, San-Francisco, Costa Rica, 13 - 16 April 2013, pp.103-104

- **Tangram solved? Prefrontal cortex activation analysis during geometric problem solving**
Ayaz H., Shewokis P. A. , İzzetoglu M., Cakir M. P. , Onaral B.
34th Annual International Conference of the IEEE Engineering-in-Medicine-and-Biology-Society (EMBS), California, United States Of America, 28 August - 01 September 2012, pp.4724-4727
- **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
- **Bridging Brain and Educational Sciences: An Optical Brain Imaging Study of Visuospatial Reasoning**
ÇAKIR M. P. , Ayaz H., İzzetoglu M., Shewokis P. A. , İzzetoglu K., Onaral B.
2nd International Conference on Education and Educational Psychology (ICEEPSY), İstanbul, Turkey, 19 - 22 October 2011, vol.29

Supported Projects

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

ÇAKIR M. P. , ACARTÜRK C., Project Supported by Higher Education Institutions, Sosyal Etkileşim Süreçlerinin Oküler İzdüşümlerinin İkili Göz İzleme Tekniğiyle İncelenmesi, 2014 - 2015

BAYKAL N., ÇAKIR M. P. , Ömrüzun F., AKKAYA A., GÜREL KÖYBAŞI N. A. , BARIŞ B. T. , ACARTÜRK C., Koçak M., Project Supported by Higher Education Institutions, Dünya Üniversiteleri Akademik Performanslarının İncelenmesi., 2012 - 2014

ÇAKIR M. P. , Project Supported by Higher Education Institutions, Bilgisayar Destekli İşbirliğiyle Matematik Ve Fen Öğrenimi., 2011 - 2013

Citations

Total Citations (WOS):68

h-index (WOS):5