

Assoc. Prof. DİDEM GÖKÇAY

Personal Information

Email: dgokcay@metu.edu.tr

Web: <https://avesis.metu.edu.tr/dgokcay>

Education Information

Doctorate, University of Florida, Computer And Information Sciences And Engineering, United States Of America 1993 - 2001

Postgraduate, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 1988 - 1991

Undergraduate, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 1983 - 1988

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, self-organizing features for regularized image standardization, University Of Florida, Computer And Information Sciences And Engineering, 2001

Postgraduate, User Identification Through Neural Networks, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, 1991

Academic Titles / Tasks

Assistant Professor, Middle East Technical University, Graduate School of Informatics, Medical Informatics, 2006 - 2017

Advising Theses

GÖKÇAY D., THE RELATIONSHIP BETWEEN EXAM PERFORMANCE AND EMOTION REGULATION CAPACITY OF UNIVERSITY STUDENTS, Postgraduate, B.KADİRDAĞ(Student), 2019

GÖKÇAY D., Investigating cognitive and emotional factors that trigger pupil dilation in human computer interaction, Postgraduate, C.UYANIK(Student), 2018

GÖKÇAY D., Investigating cognitive and emotional factors that trigger pupil delation in human computer interaction, Postgraduate, C.Uyanık(Student), 2018

GÖKÇAY D., The effects of intranasal oxytocin during trustworthiness evaluation: Context matters, Postgraduate, A.KARABULUT(Student), 2017

GÖKÇAY D., Lexical decision with emotional words: A pupil dilation study, Postgraduate, S.ERTUĞRUL(Student), 2017

GÖKÇAY D., Dynamical aspects of decision making under uncertainty, Doctorate, K.TAŞKIN(Student), 2016

GÖKÇAY D., Fusion of pupil dilation and facial temperature features for detection of stress, Doctorate,

S.BALTACI(Student), 2016

GÖKÇAY D., Investigating pain perception in somatosensory cortex for healthy and fibromyalgia patient populations by using fNIRS, Doctorate, A.EKEN(Student), 2016

GÖKÇAY D., Effects of subliminal affective stimuli on evaluative judgements: A video study on hospitals, Postgraduate, D.VİDİNİLİ(Student), 2015

GÖKÇAY D., Functional magnetic resonance imaging (fMRI) simulator, Postgraduate, K.ARSLANKOZ(Student), 2015

GÖKÇAY D., The localization of emotional stroop activations in healthy and major depressive disorder populations using fMRI, Doctorate, Z.BAŞGÖZE(Student), 2015

GÖKÇAY D., The effect of intranasal oxytocin on pupil dilation during trustworthiness evaluation and facial expression recognition tasks, Postgraduate, F.GÜLHAN(Student), 2015

GÖKÇAY D., Recognition memory for emotional words under incidental encoding : effects of valance, arousal and age, Doctorate, H.Kaynak(Student), 2013

GÖKÇAY D., The role of symmetry and facial expressions of emotions in evaluation of attractiveness and perceived symmetry: An eye tracking study, Postgraduate, P.HEPSOMALI(Student), 2013

GÖKÇAY D., The Role of symmetry and facial expressions of emotions in evaluation of attractiveness and perceived symmetry : an eye tracking study, Postgraduate, P.Hepsomalı(Student), 2013

GÖKÇAY D., Recognition memory for emotional words under incidental encoding: Effects of valence, arousal and age, Doctorate, H.KAYNAK(Student), 2013

GÖKÇAY D., Investigation of age dependent contrast and t1 differences in MR images at 3.0 T: A study on MPRAGE, spin echo and flash protocols, Postgraduate, H.AKTAŞ(Student), 2013

GÖKÇAY D., GÜRSER S., Investigation of line bisection activity in the brain by a sensory-motor task: An fMRI study, Postgraduate, B.GÜMÜŞ(Student), 2013

GÖKÇAY D., Resolving emotional conflicts in healthy adolescent population, Postgraduate, M.ARZU(Student), 2013

GÖKÇAY D., ÇAKIR M. P., The interaction of probability learning and working memory, Postgraduate, F.GÖZENMAN(Student), 2012

GÖKÇAY D., Investigation of semantic effects in oddball paradigm through event related potentials, Postgraduate, S.NİLGÜN(Student), 2012

GÖKÇAY D., ÇAKIR M. P., The Interaction of probability learning and prefrontal cortex, Postgraduate, F.Gözenman(Student), 2012

GÖKÇAY D., An exploratory study on default mode network's time course analysis, Postgraduate, B.AKIN(Student), 2012

GÖKÇAY D., Localization of facial symmetry perception through fMRI, Postgraduate, F.YILDIRIM(Student), 2012

GÖKÇAY D., Categorical effect studied through fmri in color perception, Postgraduate, Ş.KOÇ(Student), 2012

GÖKÇAY D., Vessel segmentation using shallow water equations, Doctorate, F.NAR(Student), 2011

GÖKÇAY D., Improving the sub-cortical GM segmentation using evolutionary hierarchical region merging, Postgraduate, M.ULAŞ(Student), 2011

GÖKÇAY D., ERKMEN A. M., Wavelet based deconvolution techniques in identifying fMRI based brain activation, Postgraduate, E.ADLI(Student), 2011

GÖKÇAY D., ERKMEN A. M., Blind deconvolution techniques in identifying fMRI based brain activation, Postgraduate, H.İCLAL(Student), 2011

GÖKÇAY D., A framework for authentication of medical reports based on keystroke dynamics, Postgraduate, M.KAZIM(Student), 2010

GÖKÇAY D., Effect of symmetry on recognition of unfamiliar faces, Postgraduate, G.YILDIRIM(Student), 2010

GÖKÇAY D., Simulated fMRI toolbox, Postgraduate, K.DOĞUŞ(Student), 2009

GÖKÇAY D., Karpal tünel sendromlu hastalarda transkutanöz elektriksel sinir stimülasyonunun sensorimotor kortekste etkilerinin fonksiyonel manyetik rezonans görüntüleme ile değerlendirilmesi, Expertise In Medicine, M.KARA(Student), 2008

GÖKÇAY D., Quantification of the effect of symmetry in face perception, Postgraduate, N.DİCLE(Student), 2008

GÖKÇAY D., Emotional conflict resolution in healthy and depressed populations, Postgraduate, Z.BAŞGÖZE(Student), 2008

GÖKÇAY D., Age related changes in recognition memory for emotional stimuli, Postgraduate, A.KILIÇ(Student), 2007

GÖKÇAY D., Probability learning in normal and parkinson subjects: The effect of reward, context, and uncertainty,

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **T1 relaxation time is prolonged in healthy aging: a whole brain study**
AKTAŞ DİNÇER H., Ağildere A. M., GÖKÇAY D.
Turkish Journal of Medical Sciences, vol.53, no.3, pp.675-684, 2023 (SCI-Expanded)
- II. **Hand Pronation-Supination Movement as a Proxy for Remotely Monitoring Gait and Posture Stability in Parkinson's Disease**
Cakmak Y. O., Olcek C., Ozsoy B., Khwaounjoo P., Kiziltan G., Apaydin H., Gunduz A., Oztop Cakmak O., Ertan S., Gursoy-Ozdemir Y., et al.
SENSORS, vol.22, no.5, 2022 (SCI-Expanded)
- III. **Diffusion Tensor Imaging Group Analysis Using Tract Profiling and Directional Statistics**
Metin M. O., GÖKÇAY D.
FRONTIERS IN NEUROSCIENCE, vol.15, 2021 (SCI-Expanded)
- IV. **Dimensionality of the system usability scale among professionals using internet-based interventions for depression: a confirmatory factor analysis**
Mol M., van Schaik A., Dozeman E., Ruwaard J., Vis C., Ebert D. D., Etzelmueller A., Mathiasen K., Moles B., Mora T., et al.
BMC PSYCHIATRY, vol.20, no.1, 2020 (SCI-Expanded)
- V. **Binary Classification Using Neural and Clinical Features: An Application in Fibromyalgia With Likelihood-Based Decision Level Fusion**
GÖKÇAY D., EKEN A., Baltaci S.
IEEE JOURNAL OF BIOMEDICAL AND HEALTH INFORMATICS, vol.23, no.4, pp.1490-1498, 2019 (SCI-Expanded)
- VI. **TIME BISECTION ABILITY IN SUPRA-SECONDS IS PRESERVED DURING HEALTHY AGING**
AKTAŞ DİNÇER H., GÖKÇAY D.
TURKISH JOURNAL OF GERIATRICS-TURK GERIATRI DERGISI, vol.22, no.3, pp.368-375, 2019 (SCI-Expanded)
- VII. **Association of Fine Motor Loss and Allodynia in Fibromyalgia: An fNIRS Study**
EKEN A., GÖKÇAY D., Yilmaz C., BASKAK B., Baltaci A., KARA M.
JOURNAL OF MOTOR BEHAVIOR, vol.50, no.6, pp.664-676, 2018 (SCI-Expanded)
- VIII. **Differential efficiency of transcutaneous electrical nerve stimulation in dominant versus nondominant hands in fibromyalgia: placebo-controlled functional near-infrared spectroscopy study**
EKEN A., KARA M., BASKAK B., Baltaci A., GÖKÇAY D.
NEUROPHOTONICS, vol.5, no.1, 2018 (SCI-Expanded)
- IX. **RESPONSE BIAS SHIFT FOR POSITIVE WORDS IN OLDER ADULTS IN A SURPRISE RECOGNITION MEMORY TASK: AN INCIDENTAL ENCODING STUDY**
KAYNAK H., GÖKÇAY D.
TURKISH JOURNAL OF GERIATRICS-TURK GERIATRI DERGISI, vol.20, no.4, pp.331-343, 2017 (SCI-Expanded)
- X. **Stress Detection in Human-Computer Interaction: Fusion of Pupil Dilation and Facial Temperature Features**
GÖKÇAY D., GÖKÇAY D.
INTERNATIONAL JOURNAL OF HUMAN-COMPUTER INTERACTION, vol.32, no.12, pp.956-966, 2016 (SCI-Expanded)
- XI. **Valence-based Word-Face Stroop task reveals differential emotional interference in patients with major depression**
Basgoze Z., Gonul A. S., BASKAK B., GÖKÇAY D.
PSYCHIATRY RESEARCH, vol.229, no.3, pp.960-967, 2015 (SCI-Expanded)
- XII. **Evaluation of features derived from pupil dilation in a stress induction experiment**
Baltaci S., Gokcay D.
PERCEPTION, vol.44, pp.366, 2015 (SCI-Expanded)

- XIII. **Face symmetry perception in LOC: A study with fMR adaptation**
GÖKÇAY D., Yildirim F., Yildirim G.
PERCEPTION, vol.43, no.1, pp.23-24, 2014 (SCI-Expanded)
- XIV. **A preliminary investigation on the role of facial symmetry and facial expressions in attractiveness judgements and pupil dilation**
Hepsomali P., GÖKÇAY D.
PERCEPTION, vol.43, no.1, pp.126-127, 2014 (SCI-Expanded)
- XV. **The Relationship Between Illness Duration And Brain Morphometry in Schizophrenia: Heschl's Gyrus and Prefrontal Cortex Volumetry**
KARABAY N., ÖNİZ A., GÖKÇAY D., ALPTEKİN K., Hugdahl K., ÖZGÖREN M.
JOURNAL OF NEUROLOGICAL SCIENCES-TURKISH, vol.30, no.1, pp.153-167, 2013 (SCI-Expanded)
- XVI. **Quantification of the Effects of Transcutaneous Electrical Nerve Stimulation With Functional Magnetic Resonance Imaging: A Double-Blind Randomized Placebo-Controlled Study**
KARA M., ÖZÇAKAR L., GÖKÇAY D., ÖZÇELİK E., Yorubulut M., Guneri S., KAYMAK B., AKINCI A., ÇETİN A.
ARCHIVES OF PHYSICAL MEDICINE AND REHABILITATION, vol.91, no.8, pp.1160-1165, 2010 (SCI-Expanded)

Articles Published in Other Journals

- I. **Effectiveness of a Web- and Mobile-Guided Psychological Intervention for Depressive Symptoms in Turkey: Protocol for a Randomized Controlled Trial**
Ince B. U., GÖKÇAY D., Riper H., Cuijpers P.
JMIR RESEARCH PROTOCOLS, vol.8, no.4, 2019 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **The Utility of fNIRS Signals versus Self-Report for Classification of Fibromyalgia Syndrome**
EKEN A., GÖKÇAY D., BASKAK B., Baltacı A., KARA M.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- II. **Describing Morphological Changes of Corpus Callosum via Shape Grammar Based Approach**
Turgut U. O., GÖKÇAY D.
Medical Technologies National Conference (TIPTEKNO), Bodrum, Turkey, 15 - 18 October 2015
- III. **Investigation of Risk Taking Behavior and Outcomes in Decision Making with Modified BART (m-BART)**
Taskin K., GÖKÇAY D.
International Conference on Affective Computing and Intelligent Interaction (ACII), Xian, China, 21 - 24 September 2015, pp.302-307
- IV. **EVALUATION OF MRIS OF THE BRAIN WITH RESPECT TO SNR, CNR AND GWR IN YOUNG VERSUS OLD SUBJECTS**
AKTAŞ DİNÇER H., GÖKÇAY D.
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.1079-1082
- V. **THE INTERACTION OF PROBABILITY LEARNING AND WORKING MEMORY**
Gozenman F., GÖKÇAY D., ÇAKIR M. P.
20th Annual Meeting of the Cognitive-Neuroscience-Society, San-Francisco, Costa Rica, 13 - 16 April 2013, pp.103-104
- VI. **Predicting the sentiment in sentences based on words: An Exploratory Study on ANEW and ANET**
GÖKÇAY D., Isbilir E., Yildirim G.
3rd IEEE International Conference on Cognitive Infocommunications (CogInfoCom), Koshice, Slovakia, 2 - 05 December 2012, pp.715-718

- VII. **Negative Sentiment in Scenarios Elicit Pupil Dilation Response: An Auditory Study**
Baltacı S., GÖKÇAY D.
14th ACM International Conference on Multimodal Interaction (ICMI), California, United States Of America, 22 - 26 October 2012, pp.529-532
- VIII. **Prediction of Affective States through Non-invasive Thermal Camera and EMG Recordings**
GÖKÇAY D., Baltacı S., Karahan C., Turkey K. D.
4th Bi-Annual International Conference of the Humaine Association on Affective Computing and Intelligent Interaction (ACII 2011), Tennessee, United States Of America, 9 - 12 October 2011, vol.6975, pp.319-321
- IX. **Changing pattern search component during probability learning a study using fNIR neuroimaging**
GÖKÇAY D., ÇAKIR M. P., Gözenman F., Arslan B., Çiftçioğlu M. U., Taşkın K., Ayaz H.
17th Annual Meeting of the Organization for Human Brain Mapping (HBM 2011), 26 - 28 June 2011
- X. **Emotional stimuli based exclusively on valence fail to enhance recognition memory A study across ages**
GÖKÇAY D., KILIÇ ÖZHAN A., SAY B.
International Neuropsychological Society, ATLANTA, United States Of America, 11 - 14 February 2009

Supported Projects

GÖKÇAY D., Project Supported by Higher Education Institutions, DİNAMİK FONKSİYONEL AĞ BAĞLANTILARI VE GÖREV-MODÜLASYONU: BİR MİGREN ÇALIŞMASI, 2017 - 2017

GÖKÇAY D., Project Supported by Higher Education Institutions, Fmr Görüntülerinin Doğrusal Olmayan Ters Evrişim (non-Linear Deconvolution) Yöntemleri Kullanılarak Analizi Ve Bilinen Standart Analiz Yöntemleriyle Karşılaştırılması, 2009 - 2009

Metrics

Publication: 31

Citation (WoS): 105

Citation (Scopus): 48

H-Index (WoS): 7

H-Index (Scopus): 4