

Prof.Dr. UĞUR HALICI

Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Türkiye 1983 - 1989

Yüksek Lisans, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Türkiye 1980 - 1983

Lisans, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Türkiye 1975 - 1980

Yabancı Diller

İngilizce, C1 İleri

Yaptığı Tezler

Doktora, Contributions to the theory of database concurrency control, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 1988

Yüksek Lisans, An Algorithm for Test Set Generation of Combinational Circuits, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 1983

Araştırma Alanları

Bilgisayarla Görme, Yapay Zeka, Bilgisayarda Öğrenme ve Örüntü Tanıma, Biyosinyal İşleme

Akademik Unvanlar / Görevler

Prof.Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 1996 - Devam Ediyor

Doç.Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 1991 - 1996

Yrd.Doç.Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 1988 - 1991

Öğretim Görevlisi, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 1987 - 1988

Araştırma Görevlisi, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 1980 - 1987

Mesleki Deneyim

Anabilim/Bilim Dalı Başkanı, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Nörobilim Ve Nöroteknoloji (Dr)

(Hacettepe Üniv. Ortak), 2014 - Devam Ediyor

Bölüm Başkan Yardımcısı, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2004 - 2005

Yönetilen Tezler

SERİNAĞAOĞLU DOĞRUSÖZ Y., HALICI U., Classification of lung nodules in CT images using convolutional neural networks, Yüksek Lisans, G.POLAT(Öğrenci), 2018

HALICI U., Motor imagery EEG signal classification using deep learning for brain computer interfaces, Doktora, Y.REZAEI(Öğrenci), 2017

HALICI U., Human behavior understanding using video analysis, Doktora, C.ONUR(Öğrenci), 2016

HALICI U., Performance evaluation of saliency map methods on remotely sensed RGB images, Yüksek Lisans, S.SÖNMEZ(Öğrenci), 2016

HALICI U., Deep learning approach for laboratory mice grimace scaling, Yüksek Lisans, M.ERAL(Öğrenci), 2016

HALICI U., Metastasis detection and localization in lymph nodes by using convolutional neural networks, Yüksek Lisans, M.ÜMİT(Öğrenci), 2016

HALICI U., Mouse face tracking using convolutional neural networks, Yüksek Lisans, İ.BATUHAN(Öğrenci), 2016

HALICI U., Human behavior understanding through 3d data, Yüksek Lisans, E.AKDAĞ(Öğrenci), 2015

HALICI U., Computational aesthetics using machine learning for video game camera direction, Yüksek Lisans, A.NACI(Öğrenci), 2015

HALICI U., Handwritten digit string segmentation and recognition using deep learning, Yüksek Lisans, O.ELİTEZ(Öğrenci), 2015

HALICI U., Training inverse BRDF with incomplete data for 3D reconstruction through photometric stereo, Yüksek Lisans, S.KİLECI(Öğrenci), 2014

HALICI U., GÜRSES S., Investigation of ground reaction force distribution beneath the foot in postural control, Yüksek Lisans, R.AKBARIFAR(Öğrenci), 2014

HALICI U., A shadow based trainable method for building detection in satellite images, Doktora, M.DİKMEN(Öğrenci), 2014

HALICI U., Detection of obsessive compulsive disorder using resting-state functional connectivity data, Yüksek Lisans, S.KHANEH(Öğrenci), 2013

HALICI U., Markov random field based road network extraction from high resolution satellite images, Yüksek Lisans, M.ÖZTÜRK(Öğrenci), 2013

HALICI U., Analyzing effective connectivity of brain using FMRI data: DCM and PPI, Yüksek Lisans, S.MOJTAHEDI(Öğrenci), 2013

HALICI U., FPGA implementation of real time digital video superresolution for infrared cameras, Yüksek Lisans, M.AKTUKMAK(Öğrenci), 2013

HALICI U., Road detection by mean shift segmentation and structural analysis, Yüksek Lisans, M.DURSUN(Öğrenci), 2012

HALICI U., 3D object recognition from range images, Yüksek Lisans, F.İZCİLER(Öğrenci), 2012

HALICI U., Photometric stereo considering highlights and shadows, Doktora, S.BÜYÜKATALAY(Öğrenci), 2011

HALICI U., 3D face recognition with local shape descriptors, Doktora, T.İNAN(Öğrenci), 2011

HALICI U., ALATAN A. A. , Extraction of buildings in satellite images, Yüksek Lisans, M.ÇETİN(Öğrenci), 2010

HALICI U., Analysis and classification of spelling paradigm EEG data and an attempt for optimization of channels used, Yüksek Lisans, A.YILDIRIM(Öğrenci), 2010

HALICI U., Detection of airport runways in optical satellite images, Yüksek Lisans, U.ZÖNGÜR(Öğrenci), 2009

HALICI U., Video stabilization: Digital and mechanical approaches, Yüksek Lisans, S.BAYRAK(Öğrenci), 2008

HALICI U., 3d face representation and recognition using spherical harmonics, Doktora, F.TUNÇER(Öğrenci), 2008

HALICI U., Effect of shadow in building detection and building boundary extraction, Yüksek Lisans, A.YALÇIN(Öğrenci), 2008

HALICI U., 2D/3D imaging simulator, Yüksek Lisans, N.BOZKURT(Öğrenci), 2008

HALICI U., Doppler radar data processing and classification, Yüksek Lisans, A.AYGAR(Öğrenci), 2008

HALICI U, Building detection from satellite images using shadow and color information, Yüksek Lisans, H.VOLKAN(Öğrenci), 2008

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HALICI U, Texture mapping by multi-image blending for 3D face models, Yüksek Lisans, H.BAYAR(Öğrenci), 2007

HALICI U, 3D face recognition, Yüksek Lisans, B.ÜSTÜN(Öğrenci), 2007

HALICI U, 3D animation for hand preshaping, Yüksek Lisans, M.SONER(Öğrenci), 2006

HALICI U, 3D face reconstruction using stereo vision, Yüksek Lisans, M.DİKMEN(Öğrenci), 2006

HALICI U, Vision based obstacle detection and avoidance using low level image features, Yüksek Lisans, T.SENLET(Öğrenci), 2006

HALICI U, Real-time detection and tracking of human eyes in video sequences, Yüksek Lisans, Z.SAVAŞ(Öğrenci), 2005

HALICI U, 3D marker tracking for human gait analysis, Yüksek Lisans, C.KÜÇÜK(Öğrenci), 2005

HALICI U, 3D hand tracking in video sequences, Yüksek Lisans, A.TOKATLI(Öğrenci), 2005

HALICI U, Vision-based robot localization using artificial and natural landmarks, Yüksek Lisans, Z.ARICAN(Öğrenci), 2004

HALICI U, 3D face model generation, Yüksek Lisans, S.BÜYÜKATALAY(Öğrenci), 2004

HALICI U, Feature extraction of honeybee forewings and hindlegs using image processing and active contours, Yüksek Lisans, A.GÖNÜLŞEN(Öğrenci), 2004

HALICI U, Manual and auto calibration of stereo camera systems, Yüksek Lisans, M.ÖZUYSAL(Öğrenci), 2004

HALICI U, Simulation of Turkish lip motion and facial expressions in A 3D environment and synchronization with a Turkish speech engine, Yüksek Lisans, E.AKAGÜNDÜZ(Öğrenci), 2004

HALICI U, A comparison of subspace based face recognition methods, Yüksek Lisans, Ö.GÖNDER(Öğrenci), 2004

HALICI U, Face detection in active robot vision, Yüksek Lisans, M.ÖNDER(Öğrenci), 2004

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HALICI U, Automated detection of sleep spindles, Yüksek Lisans, D.GÖRÜR(Öğrenci), 2003

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ATALAY M. V. , HALICI U, 3 D reconstruction of rigid objects from multiple calibrated views, Doktora, A.YAŞAR(Öğrenci), 2002

HALICI U, Developing a feature-based edge detector using artificial neural networks, Yüksek Lisans, G.BURÇ(Öğrenci), 2001

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HALICI U, Automatic fingerprint recognition, Doktora, A.EROL(Öğrenci), 2001

HALICI U, A Tool for analysis of visual evoked potentials for interhemispheric transfer, Yüksek Lisans, İ.ANAÇ(Öğrenci), 2001

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HALICI U, ÖZGEN C., Control of an industrial multi component high purity distillation column with a model predictive controller, Yüksek Lisans, M.KAYA(Öğrenci), 2000

HALICI U, Java based tools for an online neural networks course, Yüksek Lisans, S.KEKEÇ(Öğrenci), 2000

HALICI U, A New morphological approach for texture segmentation, Yüksek Lisans, K.UÇARKAYA(Öğrenci), 1999

HALICI U, Distance education on internet: A Java based image processing course in METU, Yüksek Lisans, M.HAKAN(Öğrenci), 1999

HALICI U, LEBLEBİCİOĞLU M. K. , Fractal image compression techniques, Yüksek Lisans, E.GÜRSES(Öğrenci), 1999

HALICI U, Speckle and clutter elimination of synthetic aperture radar (sar) images, Yüksek Lisans, H.YENİ(Öğrenci), 1998

HALICI U, Enhancement and preprocessing techniques for ridge extraction in fingerprint images, Yüksek Lisans, E.ALKAYA(Öğrenci), 1998

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HALICI U., A Feature based stereo correspondence system, Yüksek Lisans, G.ÖZDEMİR(Öğrenci), 1996
HALICI U., A Comparative analysis of neurochirs, Yüksek Lisans, S.ÇETİNKAYA(Öğrenci), 1995
HALICI U., An Automated fingerprint identification system based on self organizing feature maps classifier, Yüksek Lisans, G.ONGUN(Öğrenci), 1995
HALICI U., An Analysis of learning in the recurrent random neural network as autoassociative memory, Yüksek Lisans, A.EMRE(Öğrenci), 1995
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HALICI U., User identification through neural network algorithms, Yüksek Lisans, D.ÜNLÜ(Öğrenci), 1991
HALICI U., Design of a Boltzmann machine for the hypercube embedding problem, Yüksek Lisans, Ö.TUNALI(Öğrenci), 1991

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- **Mouse face tracking using convolutional neural networks**
Akkaya I. B. , HALICI U.
IET COMPUTER VISION, cilt.12, ss.153-161, 2018 (SCI İndekslerine Giren Dergi)
- **Diagnostic assessment of deep learning algorithms for detection of lymph node metastases in women with breast cancer**
Bejnordi B. E. , VETA M., van Diest P. J. , van Ginneken B., KARSSEMEIJER N., LITJENS G., van der Laak J. A. W. M.
JAMA - Journal of the American Medical Association, cilt.318, ss.2199-2210, 2017 (SCI Expanded İndekslerine Giren Dergi)
- **Brain Computer Interfaces for Silent Speech**
TABAR Y. R. , HALICI U.
EUROPEAN REVIEW, cilt.25, ss.208-230, 2017 (SSCI İndekslerine Giren Dergi)
- **A novel deep learning approach for classification of EEG motor imagery signals**
TABAR Y. R. , HALICI U.
JOURNAL OF NEURAL ENGINEERING, cilt.14, 2017 (SCI İndekslerine Giren Dergi)
- **Efficient Airport Detection Using Line Segment Detector and Fisher Vector Representation**
Budak U., HALICI U., Sengur A., Karabatak M., Xiao Y.
IEEE GEOSCIENCE AND REMOTE SENSING LETTERS, cilt.13, ss.1079-1083, 2016 (SCI İndekslerine Giren Dergi)
- **Applying Computational Aesthetics to a Video Game Application Using Machine Learning**
ERDEM A. N. , HALICI U.
IEEE COMPUTER GRAPHICS AND APPLICATIONS, cilt.36, ss.23-33, 2016 (SCI İndekslerine Giren Dergi)
- **A Learning-Based Resegmentation Method for Extraction of Buildings in Satellite Images**
Dikmen M., HALICI U.
IEEE GEOSCIENCE AND REMOTE SENSING LETTERS, cilt.11, ss.2150-2153, 2014 (SCI İndekslerine Giren Dergi)
- **Texture-Based Airport Runway Detection**
Aytekin O., Zongur U., HALICI U.
IEEE GEOSCIENCE AND REMOTE SENSING LETTERS, cilt.10, ss.471-475, 2013 (SCI İndekslerine Giren Dergi)
- **3-D Face Recognition With Local Shape Descriptors**
Inan T., HALICI U.
IEEE TRANSACTIONS ON INFORMATION FORENSICS AND SECURITY, cilt.7, ss.577-587, 2012 (SCI İndekslerine Giren Dergi)
- **A Cascadable Random Neural Network Chip with Reconfigurable Topology**

Badaroglu M., HALICI U., Aybay I., Cerkez C.

COMPUTER JOURNAL, cilt.53, ss.289-303, 2010 (SCI İndekslerine Giren Dergi)

● **Artificial neural network estimator design for the inferential model predictive control of an industrial distillation column**

Bahar A., Ozgen C., Leblebicioglu K., Halici U.

● INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, cilt.43, ss.6102-6111, 2004 (SCI İndekslerine Giren Dergi)

● **Time-frequency analysis of visual evoked potentials for interhemispheric transfer time and proportion in callosal fibers of different diameters**

ULUSOY PARNAS İ., HALICI U., NALÇACI E., ANAÇ İ., LEBLEBİCİOĞLU M. K. , EROĞLU C.

● BIOLOGICAL CYBERNETICS, cilt.90, ss.291-301, 2004 (SCI İndekslerine Giren Dergi)

● **Multi-agent system-based fuzzy controller design with genetic tuning for a mobile manipulator robot in the hand over task**

Erden M., Leblebicioglu K., Halici U.

● JOURNAL OF INTELLIGENT & ROBOTIC SYSTEMS, cilt.39, ss.287-306, 2004 (SCI İndekslerine Giren Dergi)

● **Application of genetic algorithms to geometry optimization of microclusters: A comparative study of empirical potential energy functions for silicon**

Erkoc S., Leblebicioglu K., Halici U.

● MATERIALS AND MANUFACTURING PROCESSES, cilt.18, ss.329-339, 2003 (SCI İndekslerine Giren Dergi)

● **Reinforcement learning with internal expectation in the random neural networks for cascaded decisions**

Halici U.

● BioSystems, cilt.63, ss.21-34, 2001 (SCI İndekslerine Giren Dergi)

● **Infinite dimensional Hopfield neural networks**

Leblebicioglu K., Halici U., Celebi O.

● NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS, cilt.47, ss.5807-5813, 2001 (SCI İndekslerine Giren Dergi)

● **Reinforcement learning with internal expectation for the random neural network**

HALICI U.

● European Journal Of Operational Research, cilt.126, ss.288-307, 2000 (SCI Expanded İndekslerine Giren Dergi)

● **A neural optimizer for hypercube embedding**

Halici U., Tunali O.

● NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS, cilt.36, ss.785-797, 1999 (SCI İndekslerine Giren Dergi)

● **Formalization of workflows and correctness issues in the presence of concurrency**

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● DISTRIBUTED AND PARALLEL DATABASES, cilt.7, ss.199-248, 1999 (SCI İndekslerine Giren Dergi)

● **Multi-image region growing for integrating disparity maps**

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● COMPUTER ANALYSIS OF IMAGES AND PATTERNS, cilt.1689, ss.403-410, 1999 (SCI İndekslerine Giren Dergi)

● **Pattern recognition in bistable networks**

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● Proceedings of SPIE - The International Society for Optical Engineering, cilt.3722, ss.457-463, 1999 (SCI İndekslerine Giren Dergi)

● **Infinite dimensional radial basis function neural networks for nonlinear transformations on function spaces**

Leblebicioglu K., Halici U.

● NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS, cilt.30, ss.1649-1654, 1997 (SCI İndekslerine Giren Dergi)

● **Reinforcement learning in random neural networks for cascaded decisions**

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BioSystems, cilt.40, ss.83-91, 1997 (SCI İndekslerine Giren Dergi)

- **Serializability of nested transactions in multidatabases**
Halici U., Arpinar B., Dogac A.
DATABASE THEORY - ICDT'97, cilt.1186, ss.321-335, 1997 (SCI İndekslerine Giren Dergi)
- **Fingerprint classification through self-organizing feature maps modified to treat uncertainties**
Halici U., ONGUN G.
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- **Classification of neural network hardware**
Aybay I., Cetinkaya S., Halici U.
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- **Annealing by Boltzmann machine for Soma puzzles**
HALICI U., Sungur M.
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- **AN OPTIMISTIC LOCKING TECHNIQUE FOR CONCURRENCY-CONTROL IN DISTRIBUTED DATABASES**
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- **COMPLETE TEST-GENERATION METHOD FOR ALL STUCK-AT FAULTS IN COMBINATIONAL-CIRCUITS**
GURAN H., HALICI U.
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- **CONCURRENCY-CONTROL IN DISTRIBUTED DATABASES THROUGH TIME INTERVALS AND SHORT-TERM LOCKS**
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- **DISCUSSION ON STUCK-AT FAULTS IN COMBINATIONAL-CIRCUITS**
GURAN H., HALICI U.
INTERNATIONAL JOURNAL OF ELECTRONICS, cilt.67, ss.7-14, 1989 (SCI İndekslerine Giren Dergi)
- **A method for concurrency control in distributed DBMSs: Permission Test Method**
HALICI U., Dogac A.
ACM SIGMOD Record, cilt.16, ss.37-50, 1987 (SCI Expanded İndekslerine Giren Dergi)

Diğer Dergilerde Yayınlanan Makaleler

- **22nd International Symposium on Computer and Information Sciences, ISCIS 2007 - Proceedings: Preface**
Schmidt E. G., Ulusoy I., Çiçekli N., Halici U., Atalay V.
22nd International Symposium on Computer and Information Sciences, ISCIS 2007 - Proceedings, 2007 (Diğer Kurumların Hakemli Dergileri)
- **Effect of orientation map accuracy on fingerprint classification using PCA-MSOM**
Erol A., HALICI U.
International Conference on Knowledge-Based Intelligent Electronic Systems, Proceedings, KES, cilt.2, ss.527-530, 2000 (Diğer Kurumların Hakemli Dergileri)
- **METU interoperable database system**
DOGAC A., HALICI U., KILIC E., ET A.
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- **Classification of Neural Network Hardware**
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Kitap & Kitap Bölümleri

● Introduction Fingerprint Recognition

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Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

● **Effect of input size on the classification of lung nodules using convolutional neural networks Akciğer nodüllerinin evrimsel sinir ağıları kullanılarak sınıflandırılmasında girdi boyutunun etkisi**

POLAT G., Dogrusoz Y., HALICI U.

26th IEEE Signal Processing and Communications Applications Conference, SIU 2018, İzmir, Türkiye, 2 - 05 Mayıs 2018, ss.1-4

● **Deep convolutional neural networks for airport detection in remote sensing images**

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● **Ensemble of Convolutional Neural Networks for Classification of Breast Microcalcification from Mammograms**

SERT E., ERTEKİN Ş., HALICI U.

39th Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society (EMBC), Güney Kore, 11 - 15 Temmuz 2017, ss.689-692

● **Assessment of pain in mouse facial images Fare Yüzü Görüntülerinde Ağrı Derecelendirilmesi**

Eral M., Aktas C. C., Kocak E. E., DALKARA T., HALICI U.

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● **Uydu Görüntülerinde Havaalanı Tespiti İçin Derin Öğrenme**

HALICI U., BUDAK Ü., ŞENGÜR A.

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● **Assesment of Pain in Mouse Facial Images**

ERAL M., ÇAKIR AKTAŞ C., EREN KOÇAK E., DALKARA T., HALICI U.

2016 XX. Biyomedikal Mühendisliği Ulusal Toplantısı (Uluslararası Katılımlı), İzmir, Türkiye, 3 - 05 Kasım 2016, ss.498-501

● **Detection of Candidate Airport Regions from Satellite Images**

ŞENGÜR A., HALICI U., BUDAK U.

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● **Tracking Mice Face in Video**

AKKAYA B., TABAR Y. R., GHARBALCHÍ F., ULUSOY PARNAS İ., HALICI U.

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● **Brain Computer Interfaces**

HALICI U.

2015 International Symposium on Computer and Information Sciences, Londrina, Brezilya, 11 - 12 Kasım 2015

● **Use of Connectivity Analysis in Disease Signature Extraction for Neurodegenerative Mental Disorders**

HALICI U.

2015 Emerging Concepts in Advanced Imaging of Neurodegenerative Diseases, İstanbul, Türkiye, 18 - 20 Ekim 2015

● **Kitlesel Açık Çevrimiçi Kurslardaki Katılımcı Profillerinin Yapay Sinir Ağı Kullanılarak Sınıflandırılması**

AL TAEI A., YILMAZ M., OCONNOR R. V. , HALICI U.

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AKTUKMAK M., HALICI U.

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Shenas S. K. , HALICI U., Cicek M.

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