

Prof. FATOŞ TUNAY YARMAN VURAL

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAP-5605-2021

ScopusID: 6701826249

Yoksis Researcher ID: 9060

Education Information

Doctorate, Princeton University, United States Of America 1976 - 1981

Postgraduate, Bogazici University, Institute Of Science, Elektrik-Elektronik Mühendisliği (YI) (Tezli), Turkey 1973 - 1975

Undergraduate, Istanbul Technical University, Elektrik-Elektronik Fakültesi, Elektrik Mühendisliği Bölümü, Turkey 1969 - 1973

Foreign Languages

English, C1 Advanced

Academic Titles / Tasks

Assistant Professor, Drexel University, Engineering, Electrical And Computer Engineering, 1987 - 1992

Research Assistant, Princeton University, Engineering, Electrical Engineering And Computer Science, 1977 - 1981

Academic and Administrative Experience

Middle East Technical University, Presidency Office, 2000 - 2008

Middle East Technical University, Faculty of Engineering, Department of Computer Engineering, 1996 - 2000

Middle East Technical University, Faculty of Engineering, Department of Computer Engineering, 1996 - 2000

Middle East Technical University, Faculty of Engineering, Department of Computer Engineering, 1992 - 1996

Advising Theses

YARMAN VURAL F. T., Improvement of temporal resolution of fMRI data for brain decoding, Postgraduate, E.VAROL(Student), 2022

YARMAN VURAL F. T., An information-theoretic representation of human brain for decoding mental states of complex problem solving, Doctorate, G.GÜNAL(Student), 2022

YARMAN VURAL F. T., Learning transferability of cognitive tasks by graph generation for brain decoding, Postgraduate, B.COŞKUN(Student), 2021

YARMAN VURAL F. T., MODELING BRAIN NETWORKS WITH ARTIFICIAL NEURAL NETWORKS, Postgraduate, B.BARIŞ(Student), 2019

YARMAN VURAL F. T., A computational model of the brain for decoding mental states from fMRI images, Doctorate, S.Alkan(Student), 2019

YARMAN VURAL F. T., Correlation-based variational change detection, Postgraduate, G.AKTAŞ(Student), 2018

YARMAN VURAL F. T., Supervised and unsupervised models of brain networks for brain decoding, Postgraduate, A.N.A. (Student), 2018

YARMAN VURAL F. T., A hierarchical representation and decoding of fMRG data by partitioning a brain network, Postgraduate, H.MOĞULTAY(Student), 2017

YARMAN VURAL F. T., Representation of human brain by mesh networks, Doctorate, I.ÖNAL(Student), 2017

YARMAN VURAL F. T., Training methodology for a multiplication free implementable operator based neural networks, Postgraduate, O.YILDIZ(Student), 2017

YARMAN VURAL F. T., Connectionist multi-sequence modelling and applications to multilingual neural machine translation, Doctorate, O.FIRAT(Student), 2017

YARMAN VURAL F. T., Compressive sensing methods for multi-contrast magnetic resonance imaging, Postgraduate, A.GÜNGÖR(Student), 2017

YARMAN VURAL F. T., A Hierarchical representation and decoding of fMRI data by partitioning a brain network, Postgraduate, H.Moğultay(Student), 2017

YARMAN VURAL F. T., CEREBRA: A 3-D visualization and processing tool for brain network extracted from fMRI data, Postgraduate, B.NASIR(Student), 2017

ERTEKİN BOLELLİ Ş., YARMAN VURAL F. T., Multi-subject brain decoding using deep learning techniques, Postgraduate, B.VELİOĞLU(Student), 2016

YARMAN VURAL F. T., New dimension reduction technique for brain decoding, Postgraduate, A.AFRASIYABI(Student), 2015

YARMAN VURAL F. T., An fMRI Segmentation Method Under Markov Random Fields for brain decoding, Postgraduate, E.AKSAN(Student), 2015

YARMAN VURAL F. T., On the analysis of deep convolutional neural networks applied to building detection in satellite images, Postgraduate, B.KARAGÖZ(Student), 2015

YARMAN VURAL F. T., Fusion of image segmentation with domain specific information under an unsupervised Markov random fields model, Doctorate, Ö.ÖZTİMUR(Student), 2014

YARMAN VURAL F. T., Visual concept detection by stacked generalization, Postgraduate, M.TEKİN(Student), 2014

KALKAN S., YARMAN VURAL F. T., Estimating border ownership using iterative vector voting and conditional random fields, Postgraduate, B.ÖZKAN(Student), 2014

YARMAN VURAL F. T., An information theoretic representation of brain connectivity for cognitive state classification using functional magnetic resonance imaging, Postgraduate, I.ÖNAL(Student), 2013

YARMAN VURAL F. T., Contextual modeling of remote sensing images with conditional random fields, Postgraduate, G.CAN(Student), 2013

EREN P. E., YARMAN VURAL F. T., Self-supervised building detection with decision fusion, Doctorate, Ç.ŞENARAS(Student), 2013

YARMAN VURAL F. T., An improved graph mining tool and its application to object detection in remote sensing, Postgraduate, Ü.RUŞEN(Student), 2013

YARMAN VURAL F. T., A new change detection method using double segmentation and its application on remotely sensed images, Postgraduate, E.GEDİK(Student), 2013

YARMAN VURAL F. T., New change detection method using double segmentation and its application on remotely sensed images, Postgraduate, E.Gedik(Student), 2013

YARMAN VURAL F. T., Decision fusion for supervised, unsupervised and semi-supervised learning, Doctorate, M.ÖZAY(Student), 2013

YARMAN VURAL F. T., Decision fusion for supervised, unsupervised and semi-supervised learnings, Doctorate, M.Özay(Student), 2013

YARMAN VURAL F. T., Attention based image retrieval, Doctorate, G.Tümüklü(Student), 2013

YARMAN VURAL F. T., Automated building detection from satellite images by using shadow information as an object

invariant, Postgraduate, B.Yüksel(Student), 2012

YARMAN VURAL F. T., Automatic cartoon generation by learning the style of an artist, Postgraduate, B.Kuruoğlu(Student), 2012

YARMAN VURAL F. T., Machine learning methods for opponent modeling in games of imperfect information, Postgraduate, V.Şirin(Student), 2012

YARMAN VURAL F. T., Novel refinement method for automatic image annotation systems, Postgraduate, E.Demircioğlu(Student), 2011

YARMAN VURAL F. T., Image annotation with semi-supervised clustering, Doctorate, A.Sayar(Student), 2009

YARMAN VURAL F. T., Performance analysis of stacked generalization, Postgraduate, M.Özay(Student), 2008

YARMAN VURAL F. T., Hanolistic : a hierarchical automatic image annotation system using holistic approach, Postgraduate, Ö.Öztimur(Student), 2008

YARMAN VURAL F. T., Toward the frontiers of stacked generalization architecture for learning, Postgraduate, C.Mertayak(Student), 2007

YARMAN VURAL F. T., A pattern classification approach boosted with genetic algorithms, Postgraduate, İ.Yalabık(Student), 2007

YARMAN VURAL F. T., Automatic image annotation by ensemble of visual descriptors, Postgraduate, E.Akbaş(Student), 2006

YARMAN VURAL F. T., A hierarchical object localization and image retrieval framework, Doctorate, M.Uysal(Student), 2006

YARMAN VURAL F. T., An image retrieval system based on region classification, Postgraduate, Ö.Can(Student), 2004

YARMAN VURAL F. T., Generalized beam angle statistics for shape description, Postgraduate, Ö.Önder(Student), 2004

YARMAN VURAL F. T., Shape : representation, description, similarity and recognition, Doctorate, N.Arıca(Student), 2003

YARMAN VURAL F. T., Vural F., Partial encryption of video for communication and storage, Postgraduate, T.Yüksel(Student), 2003

YARMAN VURAL F. T., Translating images to words : a novel approach for object recognition, Doctorate, P.Duygulu(Student), 2003

YARMAN VURAL F. T., Texture descriptors for content-based image retrieval, Doctorate, A.Çarkacıoğlu(Student), 2003

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Editorial: Machine learning methods for human brain imaging**
YARMAN VURAL F. T., Newman S. D., Çukur T., Önal Ertugrul I.
Frontiers in Neuroinformatics, vol.17, 2023 (SCI-Expanded)
- II. **Just noticeable difference for machine perception and generation of regularized adversarial images with minimal perturbation**
Akan A. K., AKBAŞ E., YARMAN VURAL F. T.
SIGNAL IMAGE AND VIDEO PROCESSING, vol.16, no.6, pp.1595-1606, 2022 (SCI-Expanded)
- III. **Gender classification using mesh networks on multiresolution multitask fMRI data**
Ertugrul I. O., Ozay M., YARMAN VURAL F. T.
BRAIN IMAGING AND BEHAVIOR, vol.14, no.2, pp.460-476, 2020 (SCI-Expanded)
- IV. **Encoding the local connectivity patterns of fMRI for cognitive task and state classification**
Ertugrul I. O., Ozay M., YARMAN VURAL F. T.
BRAIN IMAGING AND BEHAVIOR, vol.13, no.4, pp.893-904, 2019 (SCI-Expanded)
- V. **Hierarchical multi-resolution mesh networks for brain decoding**
Ertugrul I. O., Ozay M., YARMAN VURAL F. T.
BRAIN IMAGING AND BEHAVIOR, vol.12, no.4, pp.1067-1083, 2018 (SCI-Expanded)
- VI. **Multi-way, multilingual neural machine translation**
Firat O., Cho K., Sankaran B., YARMAN VURAL F. T., Bengio Y.
COMPUTER SPEECH AND LANGUAGE, vol.45, pp.236-252, 2017 (SCI-Expanded)
- VII. **Machine Learning Methods for Attack Detection in the Smart Grid**

Ozay M., Esnaola I., YARMAN VURAL F. T., Kulkarni S. R., Poor H. V.

IEEE TRANSACTIONS ON NEURAL NETWORKS AND LEARNING SYSTEMS, vol.27, no.8, pp.1773-1786, 2016 (SCI-Expanded)

VIII. Hierarchical distance learning by stacking nearest neighbor classifiers

Ozay M., YARMAN VURAL F. T.

INFORMATION FUSION, vol.29, pp.14-31, 2016 (SCI-Expanded)

IX. A Self-Supervised Decision Fusion Framework for Building Detection

Senaras C., YARMAN VURAL F. T.

IEEE JOURNAL OF SELECTED TOPICS IN APPLIED EARTH OBSERVATIONS AND REMOTE SENSING, vol.9, no.5, pp.1780-1791, 2016 (SCI-Expanded)

X. Segmentation Fusion for Building Detection Using Domain-Specific Information

Karadag O. O., Senaras C., YARMAN VURAL F. T.

IEEE JOURNAL OF SELECTED TOPICS IN APPLIED EARTH OBSERVATIONS AND REMOTE SENSING, vol.8, no.7, pp.3305-3315, 2015 (SCI-Expanded)

XI. Image segmentation by fusion of low level and domain specific information via Markov Random Fields

Karadag O. O., YARMAN VURAL F. T.

PATTERN RECOGNITION LETTERS, vol.46, pp.75-82, 2014 (SCI-Expanded)

XII. Sparse Attack Construction and State Estimation in the Smart Grid: Centralized and Distributed Models

Ozay M., Esnaola I., YARMAN VURAL F. T., Kulkarni S. R., Poor H. V.

IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS, vol.31, no.7, pp.1306-1318, 2013 (SCI-Expanded)

XIII. Building Detection With Decision Fusion

Senaras C., Ozay M., YARMAN VURAL F. T.

IEEE JOURNAL OF SELECTED TOPICS IN APPLIED EARTH OBSERVATIONS AND REMOTE SENSING, vol.6, no.3, pp.1295-1304, 2013 (SCI-Expanded)

Articles Published in Other Journals

I. A New Representation of fMRI Signal by a Set of Local Meshes for Brain Decoding

Onal I., Ozay M., Mizrak E., GİLLAM İ., YARMAN VURAL F. T.

IEEE TRANSACTIONS ON SIGNAL AND INFORMATION PROCESSING OVER NETWORKS, vol.3, no.4, pp.683-694, 2017 (ESCI)

Books & Book Chapters

I. Derin Öğrenme

Yarman Vural F. T., Cinbiş R. G., Kalkan S.

Buzdağı Yayınevi, Ankara, 2018

Refereed Congress / Symposium Publications in Proceedings

I. Visualization of Human Brain Network for the Analysis of Alzheimer's Disease Alzheimer Hastalığının Analizi için Beyin Ağlarının Görselleştirilmesi

Değirmendereli G. G., Aydın U. S., Ahmadkhan A., Türnüklü B., YARMAN VURAL F. T.

32nd IEEE Conference on Signal Processing and Communications Applications, SIU 2024, Mersin, Turkey, 15 - 18 May 2024

II. DidEye: An Attempt for Defining and Incorporating Visual Intuition for Convolutional Neural

Networks DidEye: Bir Görsel Sezgi Tanımlama Denemesi ve Evrişimsel Sinir Ağlarına Uygulanması

Koç R., YARMAN VURAL F. T.

31st IEEE Conference on Signal Processing and Communications Applications, SIU 2023, İstanbul, Turkey, 5 - 08 July 2023

- III. **Template-aligned Transfer Learning on Brain Decoding Problem Beyin Çözümleme Probleminde Şablon-Hizali Transfer Öğrenme**
Eryol E., YARMAN VURAL F. T.
30th Signal Processing and Communications Applications Conference, SIU 2022, Safranbolu, Turkey, 15 - 18 May 2022
- IV. **Texture Analysis by Deep Twin Networks for Paper Fraud Detection İkiz Derin Ağlarla Doku Analizi ile Evrak Sahteciliğinin Tesbiti**
Ekiz E., ŞAHİN E., YARMAN VURAL F. T.
30th Signal Processing and Communications Applications Conference, SIU 2022, Safranbolu, Turkey, 15 - 18 May 2022
- V. **An Analysis on Disentanglement in Machine Learning Makine Öğrenmesinde Ayırışıklık Üzerine Bir Analiz**
MOĞULTAY H., KALKAN S., YARMAN VURAL F. T.
30th Signal Processing and Communications Applications Conference, SIU 2022, Safranbolu, Turkey, 15 - 18 May 2022
- VI. **Estimating Static and Dynamic Brain Networks by Kulback-Leibler Divergence from fMRI Data**
Degirmendereli G. G., YARMAN VURAL F. T.
25th International Conference on Pattern Recognition (ICPR), ELECTR NETWORK, 10 - 15 January 2021, pp.5913-5919
- VII. **EEG Classification based on Image Configuration in Social Anxiety Disorder**
Mokatren L. S., Ansari R., Cetin A. E., Leow A. D., Ajilore O., Klumpp H., YARMAN VURAL F. T.
9th IEEE/EMBS International Conference on Neural Engineering (NER), San-Francisco, Costa Rica, 20 - 23 March 2019, pp.577-580
- VIII. **On the Entropy of Brain Anatomic Regions for Complex Problem Solving**
Degirmendereli G. G., Newman S. D., YARMAN VURAL F. T.
19th Annual IEEE International Conference on Bioinformatics and Bioengineering (BIBE), Athens, Greece, 28 - 30 October 2019, pp.603-608
- IX. **Modeling and Decoding Complex Problem Solving Process by Artificial Neural Networks**
Akan A. K., Kivilcim B. B., AKBAŞ E., Newman S. D., YARMAN VURAL F. T.
27th Signal Processing and Communications Applications Conference (SIU), Sivas, Turkey, 24 - 26 April 2019
- X. **CORRELATION-BASED VARIATIONAL CHANGE DETECTION FOR ELEVATION MODELS**
Aktas G., Nar F., YARMAN VURAL F. T.
38th IEEE International Geoscience and Remote Sensing Symposium (IGARSS), Valencia, Spain, 22 - 27 July 2018, pp.1930-1933
- XI. **NON-EUCLIDEAN VECTOR PRODUCT FOR NEURAL NETWORKS**
Afrasiyabi A., Badawi D., Nasir B., Yildiz O., YARMAN VURAL F. T., ÇETİN A. E.
IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Calgary, Canada, 15 - 20 April 2018, pp.6862-6866
- XII. **A DYNAMIC NETWORK REPRESENTATION OF FMRI FOR MODELING AND ANALYZING THE PROBLEM SOLVING TASK**
Alchihabi A., Kivilcim B. B., Newman S. D., YARMAN VURAL F. T.
15th IEEE International Symposium on Biomedical Imaging (ISBI), Washington, Kiribati, 4 - 07 April 2018, pp.114-117
- XIII. **Encoding Multi-Resolution Brain Networks Using Unsupervised Deep Learning**
Rahnama A., Alchihabi A., Gupta V., Antsaklis P. J., YARMAN VURAL F. T.
17th IEEE International Conference on Bioinformatics and Bioengineering (BIBE), Virginia, United States Of America, 23 - 25 October 2017, pp.75-80

- XIV. **Transfer Learning for Brain Decoding using Deep Architectures**
Velioglu B., YARMAN VURAL F. T.
IEEE 16th International Conference on Cognitive Informatics and Cognitive Computing (ICCI*CC), Oxford, United Kingdom, 26 - 28 July 2017, pp.65-70
- XV. **An Energy Efficient Additive Neural Network**
Afrasiyabi A., NASIR B., Yildiz O., YARMAN VURAL F. T., ÇETİN A. E.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- XVI. **Simplification and Visualization of Brain Network Extracted from fMRI Data Using CEREBRA**
Nasir B., YARMAN VURAL F. T.
15th IEEE International Conference on Cognitive Informatics and Cognitive Computing (ICCI*CC), California, United States Of America, 22 - 23 August 2016, pp.174-181
- XVII. **A Sparse Temporal Mesh Model for Brain Decoding**
Afrasiyabi A., Onal I., YARMAN VURAL F. T.
15th IEEE International Conference on Cognitive Informatics and Cognitive Computing (ICCI*CC), California, United States Of America, 22 - 23 August 2016, pp.198-206
- XVIII. **CEREBRA: A 3-D Visualization Tool for Brain Network Extracted from fMRI Data**
NASIR B., YARMAN VURAL F. T.
38th Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society (EMBC), Florida, United States Of America, 16 - 20 August 2016, pp.1147-1150
- XIX. **A Robust Normalization Method for fMRI Data for Brain Decoding**
Yildiz O., Dogan F. I., GİLLAM İ., Mizrak E., YARMAN VURAL F. T.
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.2269-2272
- XX. **Effect of Voxel Selection on Temporal Mesh Model for Brain Decoding**
Afrasiyabi A., Onal I., YARMAN VURAL F. T.
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.2249-2252
- XXI. **Functional Mesh Model with Temporal Measurements for Brain Decoding**
Onal I., Ozay M., YARMAN VURAL F. T.
37th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), Milan, Italy, 25 - 29 August 2015, pp.2624-2628
- XXII. **Learning Deep Temporal Representations for fMRI Brain Decoding**
Firat O., Aksan E., Oztekin I., YARMAN VURAL F. T.
1st International Workshop on Medical Learning Meets Medical Imaging (MLMMI), Lille, France, 11 July 2015, vol.9487, pp.25-34
- XXIII. **Modeling Voxel Connectivity for Brain Decoding**
Onal I., Ozay M., YARMAN VURAL F. T.
2015 International Workshop on Pattern Recognition in NeuroImaging PRNI 2015, California, United States Of America, 10 - 12 June 2015, pp.5-8
- XXIV. **Bilişsel durum analizi için beyin Ağı modeli**
ÖNAL I., Aksan E., VELİOĞLU B., Firat O., Özay M., YARMAN VURAL F. T.
2015 23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015
- XXV. **fMRG Verilerinde Temel Bileşenler Analizi ve Özyinemeli Boyut Eliminasyonu Kullanarak Boyut Küçültme**
Afrasiyabi A., YARMAN VURAL F. T.
2015 23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015
- XXVI. **Spatial and Temporal Feature Extraction for Brain Decoding using CUDA**
ÖNAL I., TEMİZEL A., YARMAN VURAL F. T.
GPU Technology Conference, San-Jose, United States Of America, 17 - 20 March 2015

- XXVII. **DEEP LEARNING FOR BRAIN DECODING**
Firat O., GİLLAM İ., YARMAN VURAL F. T.
IEEE International Conference on Image Processing (ICIP), Paris, France, 27 - 30 October 2014, pp.2784-2788
- XXVIII. **Representation Learning for Contextual Object and Region Detection in Remote Sensing**
Firat O., Can G., YARMAN VURAL F. T.
22nd International Conference on Pattern Recognition (ICPR), Stockholm, Sweden, 24 - 28 August 2014, pp.3708-3713
- XXIX. **Fusion of Image Segmentations under Markov Random Fields**
Karadag O. O., YARMAN VURAL F. T.
22nd International Conference on Pattern Recognition (ICPR), Stockholm, Sweden, 24 - 28 August 2014, pp.930-935
- XXX. **Modeling the Brain Connectivity for Pattern Analysis**
Onal I., Aksan E., Velioglu B., Firat O., Ozay M., GİLLAM İ., YARMAN VURAL F. T.
22nd International Conference on Pattern Recognition (ICPR), Stockholm, Sweden, 24 - 28 August 2014, pp.3339-3344
- XXXI. **FUNCTIONAL NETWORKS OF ANATOMIC BRAIN REGIONS**
Velioglu B., Aksan E., Onal I., Firat O., Ozay M., YARMAN VURAL F. T.
13th IEEE International Conference on Cognitive Informatics and Cognitive Computing (ICCI*CC), London, Canada, 18 - 20 August 2014, pp.53-60
- XXXII. **SEGMENTATION AND DECISION FUSION FOR BUILDING DETECTION**
Karadag O. O., Senaras C., YARMAN VURAL F. T.
IEEE Joint International Geoscience and Remote Sensing Symposium (IGARSS) / 35th Canadian Symposium on Remote Sensing, Quebec City, Canada, 13 - 18 July 2014, pp.1604-1607
- XXXIII. **Estimating Brain Connectivity for Pattern Analysis**
Onal I., Aksan E., Velioglu B., Firat O., Ozay M., GİLLAM İ., YARMAN VURAL F. T.
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.1806-1809
- XXXIV. **An Information Theoretic Approach to Classify Cognitive States Using fMRI**
Onal I., Ozay M., Firat O., GİLLAM İ., YARMAN VURAL F. T.
IEEE 13th International Conference on Bioinformatics and Bioengineering (BIBE), Chania, Greece, 10 - 13 November 2013
- XXXV. **FUSION OF IMAGE SEGMENTATION ALGORITHMS USING CONSENSUS CLUSTERING**
Ozay M., YARMAN VURAL F. T., Kulkarni S. R., Poor H. V.
20th IEEE International Conference on Image Processing (ICIP), Melbourne, Australia, 15 - 18 September 2013, pp.4049-4053
- XXXVI. **MRF Based Image Segmentation Augmented with Domain Specific Information**
Karadag O. O., YARMAN VURAL F. T.
17th International Conference on Image Analysis and Processing (ICIAP), Naples, Italy, 9 - 13 September 2013, vol.8157, pp.61-70
- XXXVII. **Functional Mesh Learning for Pattern Analysis of Cognitive Processes**
Firat O., Ozay M., Onal I., GİLLAM İ., YARMAN VURAL F. T.
12th IEEE International Conference on Cognitive Informatics and Cognitive Computing (ICCI CC), New-York, United States Of America, 16 - 18 July 2013, pp.161-167
- XXXVIII. **Analyzing the Information Distribution in the fMRI Measurements by Estimating the Degree of Locality**
Onal I., Ozay M., Firat O., GİLLAM İ., YARMAN VURAL F. T.
35th Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society (EMBC), Osaka, Japan, 3 - 07 July 2013, pp.6772-6775
- XXXIX. **Representation of Cognitive Processes Using the Minimum Spanning Tree of Local Meshes**
Firat O., Ozay M., Onal I., GİLLAM İ., YARMAN VURAL F. T.
35th Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society (EMBC), Osaka,

Japan, 3 - 07 July 2013, pp.6780-6783

- XL. **Airplane Localization in Satellite Images by using Visual Attention**
Ozyer G. T., YARMAN VURAL F. T.
21st Signal Processing and Communications Applications Conference (SIU), CYPRUS, 24 - 26 April 2013
- XLI. **Dry Dock Detection in Satellite Images with Representation Learning**
Aktas U. R., Firat O., YARMAN VURAL F. T.
21st Signal Processing and Communications Applications Conference (SIU), CYPRUS, 24 - 26 April 2013
- XLII. **Edge aware segmentation in satellite imagery A case study of shoreline detection**
Aktaş Ü. R., Gülcan C., YARMAN VURAL F. T.
7th IAPR Workshop on Pattern Recognition in Remote Sensing (PRRS), Tsukuba Science City, Japan, 11 November 2012
- XLIII. **Conditional Random Fields for Land Use/Land Cover Classification and Complex Region Detection**
Can G., Firat O., YARMAN VURAL F. T.
Joint IAPR International Workshop on Structural and Syntactic Pattern Recognition (SSPR) / International Workshop on Statistical Techniques in Pattern Recognition (SPR), Hiroshima, Japan, 7 - 09 November 2012, vol.7626, pp.216-224
- XLIV. **Distributed Models for Sparse Attack Construction and State Vector Estimation in the Smart Grid**
Ozay M., Esnaola I., YARMAN VURAL F. T., Kulkarni S. R., Poor H. V.
IEEE 3rd International Conference on Smart Grid Communications (SmartGridComm), Tainan, Taiwan, 5 - 08 November 2012, pp.306-311
- XLV. **Smarter Security in the Smart Grid**
Ozay M., Esnaola I., YARMAN VURAL F. T., Kulkarni S. R., Poor H. V.
IEEE 3rd International Conference on Smart Grid Communications (SmartGridComm), Tainan, Taiwan, 5 - 08 November 2012, pp.312-317
- XLVI. **A content-based image retrieval system using visual attention Görsel dikkat kullanarak geliştirilen içerik tabanlı bir görüntü erişim sistemi**
Özyer G. T., YARMAN VURAL F. T.
18th IEEE Signal Processing and Communications Applications Conference, SIU 2010, Diyarbakır, Turkey, 22 - 24 April 2010, pp.399-402
- XLVII. **Image Annotation With Semi-Supervised Clustering**
Sayar A., YARMAN VURAL F. T.
24th International Symposium on Computer and Information Sciences, Güzelyurt, Cyprus (Kktc), 14 - 16 September 2009, pp.12-13
- XLVIII. **HANOLISTIC: A Hierarchical Automatic Image Annotation System Using Holistic Approach**
Karadag O. O., YARMAN VURAL F. T.
IEEE-Computer-Society Conference on Computer Vision and Pattern Recognition Workshops, Florida, United States Of America, 20 - 25 June 2009, pp.899-900
- XLIX. **A Theoretical Analysis of Feature Fusion in Stacked Generalization**
Ozay M., YARMAN VURAL F. T.
IEEE 17th Signal Processing and Communications Applications Conference, Antalya, Turkey, 9 - 11 April 2009, pp.774-777
- L. **On the performance of Stacked Generalization classifiers**
Ozay M., YARMAN VURAL F. T.
5th International Conference on Image Analysis and Recognition, Povia de Varzim, Portugal, 25 - 27 June 2008, vol.5112, pp.445-446
- LI. **A pattern classification approach for boosting with genetic algorithms**
Yalabık I., Yarman-Vural F. T., Ucoluk G., ŞEHİTOĞLU O. T.
22nd International Symposium on Computer and Information Sciences, Ankara, Turkey, 7 - 09 November 2007, pp.250-255

Supported Projects

YARMAN VURAL F. T., Project Supported by Higher Education Institutions, Güvenlik İçin Sensör Füzyen Modellemesi, 2009 - 2012

Metrics

Publication: 66

Citation (WoS): 594

Citation (Scopus): 368

H-Index (WoS): 9

H-Index (Scopus): 9

Non Academic Experience

TUBİTAK BİLTEN

Dünya Bankası

Drexel University

Yapitel

YAPİTEL

Massachusetts Institute of Technology

TUBİTAK-MAM

TUBİTAK-MAM

Princeton University