

# Prof. Tülay YILDIRIM

## Personal Information

**Birthyear:** 1968

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**Address:** Yıldız Teknik Üniversitesi Elektrik Elektronik Fakültesi Elektronik ve Haberleşme Mühendisliği Bölümü Davutpaşa Yerleşkesi 34220 Esenler- İstanbul

## Education Information

Doctorate, University Of Liverpool, Electrical Engineering And Electronics, United Kingdom 1994 - 1997

Post Graduate, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Turkey 1990 - 1992

Under Graduate, Yıldız Teknik Üniversitesi, Mühendislik Fakültesi, Elektronik Ve Haberleşme Müh. Bölümü, Turkey 1985 - 1990

## Dissertations

Doctorate, Developments of conic section function neural networks in software and hardware, University Of Liverpool, Department Of Electrical Engineering And Electronics, Department Of Electrical Engineering And Electronics, 1997

Post Graduate, Akıllı bir sistem ile endüstriyel kontrol uygulaması, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Elektronik Ve Haberleşme Mühendisliği, 1992

## Research Areas

Control of Biological Systems, Smart Factors, Human and Robot Interaction, Humanoid Robots, Signal Processing, Pattern Recognition and Analysis, Cryptography, Virtual Reality, Computer Vision, Artificial Intelligence, Computer Learning and Pattern Recognition, Human Computer Interaction, Pattern Recognition and Image Processing, Neural Networks, Biomedical Engineering, Bioengineering and MEMS, Biomedical Image Processing, Biosignal Processing, Telemedicine, Electrical and Electronics Engineering, Electronic, Electronic Circuits, Engineering and Technology

## Academic Titles / Tasks

Professor, Yıldız Teknik Üniversitesi, Faculty of Electrical & Electronics, Elektronik Ve Haberleşme Müh. Bölümü, 2006 - Continues

Associate Professor, Yıldız Teknik Üniversitesi, Faculty of Electrical & Electronics, Elektronik Ve Haberleşme Müh. Bölümü, 2000 - 2006

Assistant Professor, Yıldız Teknik Üniversitesi, Faculty of Electrical & Electronics, Elektronik Ve Haberleşme Müh. Bölümü, 1997 - 2000

Research Assistant, Yıldız Teknik Üniversitesi, Faculty of Electrical & Electronics, Elektronik Ve Haberleşme Müh. Bölümü, 1991 - 1997

## Advising Theses

Yıldırım T., Artificial neural network realization with hybrid hardware: AY integrated circuit, Doctorate, M.AVCI(Student), 2005

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

- **A Novel Approach to Improving Brain Image Classification Using Mutual Information-Accelerated Singular Value Decomposition**  
Al-Saffar Z. A. , YILDIRIM T.  
IEEE ACCESS, vol.8, pp.52575-52587, 2020 (Journal Indexed in SCI)
- **Large-scale offline signature recognition via deep neural networks and feature embedding**  
Çalik N., Kurban O. C. , Yilmaz A. R. , Yildirim T., Durak Ata L.  
Neurocomputing, vol.359, pp.1-14, 2019 (Journal Indexed in SCI)
- **Daily Motion Recognition System by a Triaxial Accelerometer Usable in Different Positions**  
Kurban O. C. , YILDIRIM T.  
IEEE SENSORS JOURNAL, vol.19, pp.7543-7552, 2019 (Journal Indexed in SCI)
- **Overcoming “Big Data” Barriers in Machine Learning Techniques for the Real-Life Applications**  
Czarnowski I., Jedrzejowicz P., Chao K., YILDIRIM T.  
Complexity, vol.2018, pp.1-3, 2018 (Journal Indexed in SCI Expanded)
- **Enhanced LPI Waveform Representation by Ambiguity-Domain Elliptical Gaussian Filtering**  
GULUM T. O. , ERDOGAN A. Y. , Ata L. D. , Yildirim T., PACE P. E.  
IEEE TRANSACTIONS ON AEROSPACE AND ELECTRONIC SYSTEMS, vol.53, pp.762-777, 2017 (Journal Indexed in SCI)
- **FMCW Signal Detection and Parameter Extraction by Cross Wigner-Hough Transform**  
ERDOGAN A. Y. , GULUM T. O. , Durak-Ata L., YILDIRIM T., Pace P. E.  
IEEE TRANSACTIONS ON AEROSPACE AND ELECTRONIC SYSTEMS, vol.53, pp.334-344, 2017 (Journal Indexed in SCI)
- **Process independent automated sizing methodology for current steering DAC**  
Vural R., Kahraman N., Erkmen B., Yildirim T.  
INTERNATIONAL JOURNAL OF ELECTRONICS, vol.102, pp.1713-1734, 2015 (Journal Indexed in SCI)
- **New statistical features for the design of fiber optic statistical mode sensors**  
Efendioglu H. S. , YILDIRIM T., Toker O., Fidanboyu K.  
OPTICAL FIBER TECHNOLOGY, vol.19, pp.279-284, 2013 (Journal Indexed in SCI)
- **A Mixed Mode Neural Network Circuitry for Object Recognition Application**  
Erkmen B., Vural R., Kahraman N., Yildirim T.  
CIRCUITS SYSTEMS AND SIGNAL PROCESSING, vol.32, pp.29-46, 2013 (Journal Indexed in SCI)
- **Analog active filter component selection with nature inspired metaheuristics**  
Vural R., Bozkurt U., YILDIRIM T.  
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.67, pp.197-205, 2013 (Journal Indexed in SCI)
- **Performance Evaluation of Evolutionary Algorithms for Optimal Filter Design**  
Vural R., YILDIRIM T., Kadioglu T., Basargan A.  
IEEE TRANSACTIONS ON EVOLUTIONARY COMPUTATION, vol.16, pp.135-147, 2012 (Journal Indexed in SCI)
- **Analog circuit sizing via swarm intelligence**  
Vural R., YILDIRIM T.  
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.66, pp.732-740, 2012 (Journal Indexed in SCI)
- **Segmentation of Hyperspectral Images via Subtractive Clustering and Cluster Validation Using One-Class Support Vector Machines**  
BİLGİN G., ERTÜRK S., YILDIRIM T.  
IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING, vol.49, pp.2936-2944, 2011 (Journal Indexed in SCI)
- **Investigation of particle swarm optimization for switching characterization of inverter design**  
Vural R., DER O., YILDIRIM T.  
EXPERT SYSTEMS WITH APPLICATIONS, vol.38, pp.5696-5703, 2011 (Journal Indexed in SCI)
- **ROC Analysis as a Useful Tool for Performance Evaluation of Artificial Neural Networks**  
Tokan F., Yildirim T., Türker Tokan N.  
Lecture Notes In Computer Science, vol.4132, pp.923-931, 2010 (Journal Indexed in SCI Expanded)
- **Particle swarm optimization based inverter design considering transient performance**

Vural R., DER O., YILDIRIM T.

DIGITAL SIGNAL PROCESSING, vol.20, pp.1215-1220, 2010 (Journal Indexed in SCI)

- **FPGA implementation of a General Regression Neural Network: An embedded pattern classification system**  
Polat O., Yildirim T.  
DIGITAL SIGNAL PROCESSING, vol.20, pp.881-886, 2010 (Journal Indexed in SCI)
- **Conic Section Function Neural Network Circuitry for Offline Signature Recognition**  
Erkmen B., Kahraman N., Vural R., Yildirim T.  
IEEE TRANSACTIONS ON NEURAL NETWORKS, vol.21, pp.667-672, 2010 (Journal Indexed in SCI)
- **Prediction of Force Measurements of a Microbend Sensor Based on an Artificial Neural Network**  
Efendioglu H. S. , YILDIRIM T., Fidanboyu K.  
SENSORS, vol.9, pp.7167-7176, 2009 (Journal Indexed in SCI)
- **Technology independent circuit sizing for standard cell based design using neural networks**  
KAHRAMAN N., YILDIRIM T.  
DIGITAL SIGNAL PROCESSING, vol.19, pp.708-714, 2009 (Journal Indexed in SCI)
- **THRESHOLD VOLTAGE MODELING USING NEURAL NETWORKS**  
Kahraman N., Erkmen B., Yildirim T.  
NEURAL NETWORK WORLD, vol.19, pp.255-262, 2009 (Journal Indexed in SCI)
- **Unsupervised Classification of Hyperspectral-Image Data Using Fuzzy Approaches That Spatially Exploit Membership Relations**  
Bilgin G., ERTÜRK S., Yildirim T.  
IEEE GEOSCIENCE AND REMOTE SENSING LETTERS, vol.5, pp.673-677, 2008 (Journal Indexed in SCI)
- **Technology Independent Circuit Sizing for Standard Cell Based Design Using Neural Networks**  
KAHRAMAN N., Yildirim T.  
Digital Signal Processing, vol.4, pp.708-714, 2008 (Journal Indexed in SCI)
- **Improving classification performance of sonar targets by applying general regression neural network with PCA**  
Erkmen B., Yildirim T.  
EXPERT SYSTEMS WITH APPLICATIONS, vol.35, pp.472-475, 2008 (Journal Indexed in SCI)
- **Genetic optimization of GRNN for pattern recognition without feature extraction**  
Polat O., Yildirim T.  
EXPERT SYSTEMS WITH APPLICATIONS, vol.34, pp.2444-2448, 2008 (Journal Indexed in SCI)
- **Hand geometry identification without feature extraction by general regression neural network**  
Polat O., Yildirim T.  
EXPERT SYSTEMS WITH APPLICATIONS, vol.34, pp.845-849, 2008 (Journal Indexed in SCI)
- **Statistical neural network based classifiers for letter recognition**  
Erkmen B., Yildirim T.  
Lecture Notes in Control and Information Sciences, vol.345, pp.1081-1086, 2006 (Journal Indexed in SCI)
- **Conic section function neural networks for sonar target classification and performance evaluation using ROC analysis**  
Erkmen B., Yildirim T.  
Lecture Notes in Control and Information Sciences, vol.345, pp.779-784, 2006 (Journal Indexed in SCI)
- **Neural Network Based MOS Transistor Geometry Decision for TSMC 0 18 Process Technology**  
Mutlu A., YILDIRIM T.  
Lecture Notes in Computer Science, 2006 (Journal Indexed in SCI Expanded)
- **Artificial neural design of microstrip antennas**  
TÜRKER TOKAN N., GÜNEŞ F., YILDIRIM T.  
Turkish Journal of Electrical Engineering & Computer Sciences, 2006 (Journal Indexed in SCI Expanded)
- **A Comparative Study on Computerised Diagnostic Performance of Hepatitis Disease Using ANNs**  
ACAR VURAL R., ÖZYILMAZ L., YILDIRIM T.  
Lecture Notes in Artificial Intelligence, 2006 (Journal Indexed in SCI Expanded)
- **Statistical Neural Network Based Classifiers for Letter Recognition**  
ERKMEN B., YILDIRIM T.

- Lecture Notes in Control and Information Sciences,, 2006 (Journal Indexed in SCI Expanded)
- **Pattern Recognition Without Feature Extraction Using Probabilistic Neural Network**  
POLAT Ö., YILDIRIM T.  
Lecture Notes in Control and Information Sciences, 2006 (Journal Indexed in SCI Expanded)
  - **Neural network based MOSFET channel length and width decision method for analogue integrated circuits**  
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  - **Signature verification using conic section function neural network**  
Senol C., YILDIRIM T.  
COMPUTER AND INFORMATION SCIENCES - ISCIS 2005, PROCEEDINGS, vol.3733, pp.524-532, 2005 (Journal Indexed in SCI)
  - **Active learning for probabilistic neural networks**  
BOLAT B., Yildirim T.  
ADVANCES IN NATURAL COMPUTATION, PT 1, PROCEEDINGS, vol.3610, pp.110-118, 2005 (Journal Indexed in SCI)
  - **ROC analysis for fetal hypoxia problem by artificial neural networks**  
ÖZYILMAZ L., YILDIRIM T.  
Lecture Notes in Artificial Intelligence, 2004 (Journal Indexed in SCI Expanded)
  - **Reduction of complexity in conic section function neural network**  
ÖZYILMAZ L., YILDIRIM T.  
KYBERNETES, vol.32, pp.540-547, 2003 (Journal Indexed in SCI)
  - **Optimization of the deflection basin by genetic algorithm and neural network approach**  
Terzi S., Saltan M., YILDIRIM T.  
Lecture Notes in Computer Science, 2003 (Journal Indexed in SCI Expanded)
  - **General design method for complementary pass transistor logic circuits**  
avcı m., YILDIRIM T.  
Electronics Letters, 2003 (Journal Indexed in SCI Expanded)
  - **Dimensionality reduction in conic section function neural network**  
YILDIRIM T., ÖZYILMAZ L.  
SADHANA-ACADEMY PROCEEDINGS IN ENGINEERING SCIENCES, vol.27, pp.675-683, 2002 (Journal Indexed in SCI)

## Articles Published in Other Journals

- **Görüntü İşleme Ve YSA Kullanarak Araç Jantları Paketlenmesinin Hatasızlaştırılması**  
Gökay G., YILDIRIM T.  
Akıllı Sistemler ve Uygulamaları Dergisi, 2018 (Other Refereed National Journals)
- **Neural Networks Applications in WLANs for Performance Enhancement: a Survey and Framework**  
YILDIRIM T., Govere T. G.  
International Journal of Advanced Science and Engineering, vol.5, pp.917, 2018 (Refereed Journals of Other Institutions)
- **Noninvasive Glucose Measurement for Diabetes Mellitus Patients**  
DÜDÜKÇÜ H. V. , YILDIRIM T.  
Current Trends in Biomedical Engineering Biosciences, vol.2, pp.1-3, 2017 (Refereed Journals of Other Institutions)
- **Fuzzy Neural Networks for Medical Diagnosis**  
Canan S., Yildirim T.  
International Journal of Reasoning-based Intelligent Systems, vol.2, no.3, pp.265-274, 2010 (Refereed Journals of Other Institutions)
- **Artificial Neural Networks Applied to the Design of Microstrip Antennas**  
TÜRKER TOKAN N., GÜNEŞ F., YILDIRIM T.  
Microwave Review, vol.12, no.1, pp.10-14, 2006 (Refereed Journals of Other Institutions)
- **Breast cancer diagnosis using statistical neural networks**

KIYAN T., YILDIRIM T.

Istanbul University - Journal of Electrical & Electronics Engineering,, 2004 (Refereed Journals of Other Institutions)

- **Determination of Approximate Main Engine Power for Chemical Cargo Ships Using Radial Basis Function Neural Network**

Erkmen B., Çelebi U. B. , Ekinçi S., Yıldırım T.

Journal of Naval Science and Engineering, no.2, pp.105-115, 2004 (International Refereed University Journal)

- **Complementary pass transistor logic synthesis with 123 decision diagram**

AVCI M., YILDIRIM T.

Istanbul University - Journal of Electrical & Electronics Engineering,, 2004 (Refereed Journals of Other Institutions)

- **A data selection method for Probabilistic Neural Networks**

Bolat B., Yıldırım T.

Istanbul University - Journal of Electrical & Electronics Engineering, vol.4, pp.1137-1140, 2004 (Refereed Journals of Other Institutions)

- **Performance Increasing Methods for Probabilistic Neural Networks**

Bolat B., Yıldırım T.

Pakistan Journal of Information & Technology, vol.2, pp.250-255, 2003 (Refereed Journals of Other Institutions)

- **Comparison of neural algorithms for function approximation**

Özyılmaz L., Yıldırım T., Köklü K.

Pakistan Journal of Applied Sciences, vol.2, pp.288-294, 2002 (Refereed Journals of Other Institutions)

## Books & Book Chapters

- **CSFNN Synapse and Neuron Design using Current Mode Analog Circuitry**

Erkmen B., Yıldırım T.

in: Lecture Notes in Computer Science, Bruno Apolloni, Robert J. Howlett, Lakhmi Jain, Editor, Springer, London/Berlin , Zürich, pp.17-25, 2007

- **Genetic Optimizations for Radial Basis Function and General Regression Neural Networks**

Yazıcı G., Polat Ö., Yıldırım T.

in: Lecture Notes in Computer Science, Gelbukh A., Reyes-Garcia C.A., Editor, Springer, London/Berlin , Berlin, pp.348-356, 2006

- **A unified framework for connectionist models**

YILDIRIM T., JD m.

in: In Perspectives in Neural Computing Connectionist Representations, , Editor, Springer-Verlag, 1997

## Refereed Congress / Symposium Publications in Proceedings

- **Transfer Function Optimization for Band-Pass and Band-Stop Filters**

Ayten T. S. , YILDIRIM T.

2019 Innovations in Intelligent Systems and Applications Conference (ASYU), Izmir, Turkey, 31 October - 02 November 2019

- **Depo Yönetim Sistemi Probleminin Ateşböceği Algoritması ile Çözümü Storage Management System Problem and Firefly Algorithm Solution**

ATAS K., YILDIRIM T.

2019 Innovations in Intelligent Systems and Applications Conference (ASYU), Izmir, Turkey, 31 October - 02 November 2019

- **Modelling of Non-Planar Microstrip Lines via Artificial Neural Networks**

Mahouti T., Kuskonmaz N., YILDIRIM T.

2019 Innovations in Intelligent Systems and Applications Conference (ASYU), Izmir, Turkey, 31 October - 02 November 2019

- **Single channel potentiostat for electroanalytical applications**

Alibek M., YILDIRIM T.

7th International Conference on Nanomaterials and Advanced Energy Storage Systems (INESS-2019), 7 - 09

August 2019

- **Improving Turkish Telephone Speech Recognition with Data Augmentation and Out of Domain Data**  
Uslu Z. G. , YILDIRIM T.  
2019 16th International Multi-Conference on Systems, Signals Devices (SSD), Istanbul, Turkey, 21 - 24 March 2019
- **Offline Signature Identification and Verification Using Capsule Network**  
Gumusbas D., YILDIRIM T.  
2019 IEEE International Symposium on INnovations in Intelligent SysTems and Applications (INISTA), Sofia, Bulgaria, 3 - 05 July 2019
- **Adversarial Nuclei Segmentation on HE Stained Histopathology Images**  
KOYUN O. C. , YILDIRIM T.  
2019 IEEE International Symposium on INnovations in Intelligent SysTems and Applications (INISTA), Sofia, Bulgaria, 3 - 05 July 2019
- **Painter Classification Over the Novel Art Painting Data Set via The Latest Deep Neural Networks**  
Kelek M. O. , ÇALIK N., YILDIRIM T.  
9th Annual International Conference of Information and Communication Technology ICICT 2019, 11 - 13 January 2019, vol.154, pp.369-376
- **Modeling and Simulation of Turret Stabilization with Intelligent Algorithms**  
Ceceloglu A. C. , YILDIRIM T.  
9th International Congress of Information and Communication Technology (ICICT -2019, 11 - 13 January 2019, vol.154, pp.377-382
- **Comparative Analysis of Crypto Systems Using Biometric Key**  
Müftüoğlu Z., YILDIRIM T.  
9th Annual International Conference of Information and Communication Technology ICICT 2019, 11 - 13 January 2019, vol.154, pp.327-331
- **The Effect of Convolutional Neural Network Parameters on Sign Language Recognition**  
Savaş O. O. , YILDIRIM T.  
2018 Innovations in Intelligent Systems and Applications Conference (ASYU), Adana, Turkey, 4 - 06 October 2018
- **Simplified Visual Cortex Model for Pattern Recognition**  
Çevikbaş C., YILDIRIM T.  
2018 Innovations in Intelligent Systems and Applications Conference (ASYU), Adana, Turkey, 4 - 06 October 2018
- **Obtaining Brachistochrone Curve with Metaheuristic Algorithms**  
Güçkiran K., YILDIRIM T.  
2018 Innovations in Intelligent Systems and Applications Conference (ASYU), Adana, Turkey, 4 - 06 October 2018
- **Motion-Controlled Virtual Reality Robotic Arm With Kinect**  
Uğur M., Demir T., YILDIRIM T.  
2018 Innovations in Intelligent Systems and Applications (INISTA), Thessaloniki, Greece, 3 - 05 July 2018
- **Speaker Dependent Voice Controlled Robotic Arm**  
Artürk M. K. , Akçınar D., YILDIRIM T.  
2018 Innovations in Intelligent Systems and Applications (INISTA), Thessaloniki, Greece, 3 - 05 July 2018
- **An Optimized Clustering Approach for Tumor Segmentation Using Local Difference of Intensity Level in MR Brain Images**  
Al Saffar Z. A. , YILDIRIM T.  
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- **Recognition of sign language using capsule networks Kapsül Aglari ile Isaret Dili Tanima**  
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26th IEEE Signal Processing and Communications Applications Conference, SIU 2018, İzmir, Turkey, 2 - 05 May 2018, pp.1-4
- **Colregs based path planning and bearing only obstacle avoidance for autonomous unmanned surface vehicles**  
Beser F., YILDIRIM T.  
8th International Congress of Information and Communication Technology, ICICT 2018, Xiamen, China, 27 - 28 January 2018, vol.131, pp.633-640
- **Assessment of components and methods used to identify responses and regions of brain related with**

## **face recognition and perception**

Özkaya Ş. N. , YILDIRIM T.

8th International Congress of Information and Communication Technology, ICICT 2018, Xiamen, China, 27 - 28 January 2018, vol.131, pp.38-41

- **Assessment of Optical Detection Methods for Compact Biosensors**

EFE O., YILDIRIM T.

Medical Technologies National Congress (TIPTEKNO'17), 12 - 14 October 2017

- **A multi-biometric recognition system based on deep features of face and gesture energy image**

KURBAN O. C. , YILDIRIM T., BİLGİÇ A.

2017 IEEE International Conference on INnovations in Intelligent SysTems and Applications (INISTA), 3 - 05 July 2017

- **Signature Recognition Application Based on DeepLearning**

ÇALIK N., KURBAN O. C. , YILMAZ A. R. , DURAK ATA L., YILDIRIM T.

25th Signal Processing and Communications Applications Conference (SIU), 15 - 18 May 2017

- **Face recognition classifier based on dimension reduction in deep learning properties**

BİLGİÇ A., KURBAN O. C. , YILDIRIM T.

2017 25th Signal Processing and Communications Applications Conference (SIU), 15 - 18 May 2017

- **DeRİN Öğrenme Tabanlı İmza Tanıma Uygulaması**

ÇALIK N., KURBAN O. C. , YILMAZ A. R. , YILDIRIM T., DURAK ATA L.

25. Sinyal İşleme Uygulamaları, Antalya, Turkey, 15 May 2017, pp.1-4

- **Channel estimation by using ANN in DF based cooperative communication system**

Karabulut M. A. , Çukur H., İlhan H., Yıldırım T.

National Conference on Electrical, Electronics and Biomedical Engineering (ELECO 2016), Bursa, Turkey, 01 December 2016 - 03 December 2017, pp.590-593

- **Wrist vein recognition by ordinary camera using Phase-Based correspondence matching**

NİYAZ Ö., ÇAM Z. G. , YILDIRIM T.

2017 IASTED International Conference on Modelling, Identification and Control, MIC 2017, Innsbruck, Austria, 20 - 21 February 2017, vol.848, pp.89-93

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KURBAN O. C. , NİYAZ Ö., YILDIRIM T.

2016 International Symposium on INnovations in Intelligent SysTems and Applications (INISTA), 2 - 05 August 2016

- **Implementation Aspects of Wigner-Hough Transform Based Detectors for LFM CW Signals**

GÜNER K. K. , ERKMEN B., GULUM T. O. , ERDOĞAN A., YILDIRIM T., Ata L. D.

39th International Conference on Telecommunications and Signal Processing (TSP), Vienna, Austria, 27 - 29 June 2016, pp.441-444

- **İşaretlerinin Kestirimi için Wigner Hough Dönüşümünün Donanım Uygulamasına Yönelik İyileştirilmesi**

güner k., ERKMEN B., gülüm t., Erdoğan A., YILDIRIM T., DURAK ATA L.

Sinyal İşleme ve Uygulamaları Kurultayı, Turkey, 16 - 19 May 2015

- **Improving Wigner Hough Transform for hardware implementation to intercept LFM CW signals**

GÜNER K. K. , ERKMEN B., GULUM T., ERDOĞAN Y., YILDIRIM T., DURAK ATA L.

2015 23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, Turkey, 16 - 19 May 2015

- **Çok Katmanlı Algılayıcı Ağının Eğitim Parametrelerinin Yapay Arı Kolonisi ve Genetik Algoritma ile Optimizasyonu**

ÇAM Z. G. , Kartcı A., YILDIRIM T.

Akıllı Sistemlerde Yenilikler ve Uygulamaları (ASYU) Sempozyumu, İzmir, Turkey, 9 - 10 October 2014, pp.73-76

- **Learning Parameter Optimization of Multi-Layer Perceptron Using Artificial Bee Colony, Genetic Algorithm and Particle Swarm Optimization**

Çam Z. G. , Cimen S., Yıldırım T.

IEEE 13th International Symposium on Applied Machine Intelligence and Informatics (SAMII), Herl'any, Slovakia, 22 - 24 January 2015, pp.329-332

- **PSO Algoritması ile Çok Katmanlı Algılayıcı Ağ Mimarisinin Belirlenmesi**

Çalışkan A., ÇİMEN S., Yıldırım T.

Akıllı Sistemlerde Yenilikler ve Uygulamaları Sempozyumu, İzmir, Turkey, 09 October 2014, pp.73-76

- **PWVD resolution considerations for LFMCW signal detection by WHT**

Taylan O G., AYasin E., Kani K G., Lutfiye D., Phillip E P., YILDIRIM T.

2014 20th International Conference on Microwaves, Radar and Wireless Communications (MIKON), Gdansk, Poland, 16 - 18 June 2014

- **Technology Independent Automated Sizing Methodology Based on Artificial Neural Networks: An Application to CMOS OPAMP Design**

KAHRAMAN N., YILDIRIM T.

2014 International Conference on Computational Science and Computational Intelligence, 10 - 13 March 2014

- **A Neural Network Based Design Automation of a Second Generation Current Conveyor**

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- **Neural network based daily activity recognition without feature extraction**

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22. SİNYAL İŞLEME ve İLETİŞİM UYGULAMALARI KURULTAYI (SIU), Trabzon, Turkey, 23 May 2014, pp.567-570

- **Digital Chirp Rate Adaptation for Optimum FMCW Interception Using Wigner-Hough Transform**

ERDOĞAN A., Gulum T. O. , Durak-Ata L., YILDIRIM T.

22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.1179-1182

- **Classification of Normal and Abnormal Lung Sounds Using Wavelet Coefficients**

UYSAL S., UYSAL H., BOLAT B., YILDIRIM T.

22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.2138-2141

- **Metaheuristics Based CMOS Two-Stage Comparator Optimization**

ACAR VURAL R., BOZKURT U., YILDIRIM T.

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- **CMOS Differential Amplifier Area Optimization with Evolutionary Algorithms**

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The World Congress on Engineering and Computer Science (WCECS), San-Francisco, United States Of America, 23 - 25 October 2013, vol.2, pp.666-670

- **Digit recognition in a simplified visual cortex model**

I Can C., YILDIRIM T.

2013 IEEE INISTA, Albena, Bulgaria, 19 - 21 June 2013

- **Elliptic Gaussian filtering for Time Frequency signal analysis**

Taylan O G., AYasin E., Lutfiye D., YILDIRIM T., Phillip E P.

2013 IEEE Radar Conference (RadarCon13), Ottawa, ON, Canada, 29 April - 03 May 2013

- **Neural network based footprint identification without feature extraction**

KURBAN O. C. , YILDIRIM T., BAŞARAN E.

IEEE 21. Sinyal İşleme ve Uygulamaları Kurultayı, Turkey, 24 - 26 April 2013

- **Wigner Hough Dönüşümüyle FMSD Kestirimi Eniyileme İçin Dijital Cıvıltı Oranı Uyarlama Metodu**

Erdoğan A., Gülüm T., DURAK ATA L., YILDIRIM T.

IEEE 22. Sinyal İşleme ve Uygulamaları Kurultayı, Turkey, 23 - 25 April 2013

- **Sağlıklı ve Sağlıksız Akciğer Seslerinin Dalgacık Katsayıları Kullanılarak Sınıflandırılması**

UYSAL S., UYSAL H., BOLAT B., YILDIRIM T.

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