# Prof. Tülay YILDIRIM

## Personal Information

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**International Researcher IDs**
ScholarID: GW72O1AAAAAJ
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## Education

Doctorate, University of Liverpool, Electrical Engineering And Electronics, United Kingdom 1994 - 1997
Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Turkey 1990 - 1992
Undergraduate, Yildiz Technical University, 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
Postgraduate, Akıllı bir sistem ile endüstriyel kontrol uygulaması, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Elektronik Ve Haberleşme Mühendisliği, 1992

## Research Areas

**Avesis 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
**WoS Research Areas:** Engineering, Computing & Technology (ENG), COMPUTER SCIENCE, ENGINEERING, COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE, COMPUTER SCIENCE, CYBERNETICS, ROBOTICS, ENGINEERING, ELECTRICAL & ELECTRONIC, ENGINEERING, BIOMEDICAL, NEUROSCIENCES, NEUROIMAGING
**Scopus Research Areas:** General Computer Science, General Engineering, Artificial Intelligence, Signal Processing, Bioengineering, General Neuroscience

## Academic Positions

Professor, Yildiz Technical University, Faculty of Electrical & Electronics, Electronics And Communication Engineering, 2006 - Present
Associate Professor, Yildiz Technical University, Faculty of Electrical & Electronics, Electronics And Communication Engineering, 2000 - 2006
Assistant Professor, Yildiz Technical University, Faculty of Electrical & Electronics, Electronics And Communication Engineering, 1997 - 2000
Research Assistant, Yildiz Technical University, Faculty of Electrical & Electronics, Electronics And Communication Engineering, 1991 - 1997

## Academic and Administrative Experience

Ana Bilim Dalı Başkanı, Yildiz Technical University, Faculty of Electrical & Electronics, 2008 - 2023
Head of Department, Yildiz Technical University, Faculty of Electrical & Electronics, 2010 - 2013
Program Koordinatörü, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, -, 2010 - 2013
Fakülte Yönetim Kurulu Üyesi, Yildiz Technical University, Faculty of Electrical & Electronics, 2010 - 2013
Fakülte Kurulu Üyesi, Yildiz Technical University, Faculty of Electrical & Electronics, 2010 - 2013
Erasmus Program Department Coordinator, Yildiz Technical University, 2003 - 2011
Vice Dean, Yildiz Technical University, Faculty of Electrical & Electronics, 2005 - 2007
Deputy Head of Department, Yildiz Technical University, Faculty of Electrical & Electronics, 1998 - 2005

## Supervised Theses

Yıldırım T., Classification of Solder Quality in Through Hole Devices with Convolutional Neural Networks, Postgraduate, N.SARIGÜL(Student), 2023
Yıldırım T., Simplified Visual Cortex Model for Machine Vision, Doctorate, İ.CAN(Student), 2023
Yıldırım T., Frequency response characterization of various media for magnetic human body communication, Postgraduate, E.BERAT(Student), 2023
Yıldırım T., ELECTROMYOGRAPHY BASED MULTI FINGEREDMOVEMENT RECOGNITION FOR HAND PROSTHESIS, Postgraduate, M.BERBEROĞLU(Student), 2023
Yıldırım T., Araçlar için Türkçe Akıllı Asistan Tasarımı, Postgraduate, E.ERGÜN(Student), 2022
Yıldırım T., Davranışsal ve Fiziksel Multi-biyometri ile Kişi Kimliklendirme ve Hareket Tanıma Üzerine Yaklaşımlar, Doctorate, O.CAN(Student), 2022
Kuşkonmaz N., Yıldırım T., Üç Boyutlu Seramik Tabanlı Mikrodalga Devrelerin Tasarımı, Postgraduate, T.MAHOUTI(Student), 2022
Yıldırım T., Optimization of bluetooth low energy-based indoor localization using smart systems, Postgraduate, M.YIRIMEAH(Student), 2022
Yıldırım T., Frequency selective surfaces for aerospace applications, Postgraduate, H.MEHMET(Student), 2022
Yıldırım T., Privacy-Preserving Techniques and Machine Learning for Critical Systems, Doctorate, Z.MÜFTÜOĞLU(Student), 2022
Yıldırım T., A medical decision making system for brain tumor identification from magnetic resonance images using machine learning techniques, Doctorate, Z.ABD(Student), 2021
Özmen A., Yıldırım T., Autonomous Vehicle Control using Reinforcement Learning, Postgraduate, H.BOZKURT(Student), 2020
Yıldırım T., Domain free deep learning based security models for cyberphysical systems, Doctorate, D.GÜMÜŞBAŞ(Student), 2020
Yıldırım T., Potentiostat design for electrochemical measurements, Postgraduate, M.ALIBEK(Student), 2020
Yıldırım T., Learning-based spatial reuse optimization for dense wireless local area networks, Postgraduate, T.GIDEON(Student), 2019
Yıldırım T., Transfer function optimization using evolutionary algorithms in filter circuits, Postgraduate,

T.SAATÇI(Student), 2019
Yıldırım T., Converting medical dictation reports to text, Postgraduate, Z.GÜLHAN(Student), 2019
Yıldırım T., Dynamically modeling and controlling turret systems ascent axes with intelligent algorithms, Postgraduate, A.CAN(Student), 2019
Yıldırım T., Nuclei segmentation with generative adversarial networks, Postgraduate, O.CAN(Student), 2019
Yıldırım T., Smart suit design for military person, Postgraduate, B.SAKACI(Student), 2018
Yıldırım T., Analysing of electrical activity in the active brain regions against visual stimuli, Postgraduate, Ş.NUR(Student), 2018
Yıldırım T., Route planning and obstacle avoidance for multiple autonomous unmanned surface vehicles, Postgraduate, F.BEŞER(Student), 2018
Yıldırım T., Biometric identification with wrist and palmprint images captured by mobile phone camera, Postgraduate, Ö.NİYAZ(Student), 2017
Yıldırım T., Fusion of face and body biometrics based on deep learning, Postgraduate, A.BİLGİÇ(Student), 2017
Yıldırım T., Automated insulin pump design based on probabilistic prediction algorithm, Postgraduate, H.VİLDAN(Student), 2017
Yıldırım T., Pace P. E., Enhanced LPI waveform representations for digital electronic warfare intercept receivers, Doctorate, T.ÖZGÜR(Student), 2016
Yıldırım T., Pace P. E., FMCW LPI radar signal detection and parameter extraction methods based on Wigner Hough transform, Doctorate, A.YASİN(Student), 2015
Yıldırım T., Design of an embedded electronic stethoscope, Postgraduate, H.UYSAL(Student), 2014
Yıldırım T., Classification of human activities with wearable sensors without feature extraction, Postgraduate, O.CAN(Student), 2014
Yıldırım T., Disease diagnosis by sound analysis, Postgraduate, S.UYSAL(Student), 2014
Yıldırım T., Intelligent design of intensity modulated fiber optic sensors using different fiber structures, Doctorate, H.SEÇKİN(Student), 2014
Yıldırım T., 3.3 v electronic control board design for white goods, Postgraduate, T.AYTEKİN(Student), 2013
Yıldırım T., Power analysis attacks on an implementation of AES algorithm, Postgraduate, M.ÖZTEMÜR(Student), 2012
Yıldırım T., Evolutionary algorithm based electronic circuit design automation, Postgraduate, U.BOZKURT(Student), 2012
Yıldırım T., Particle swarm optimization for electronic circuit design automation, Doctorate, R.ACAR(Student), 2011
Yıldırım T., Design of low voltage analog ANN circuit blocks by using subthreshold FGMOS transistors, Doctorate, F.KELEŞ(Student), 2010
Yıldırım T., Development of artificial neural network-fuzzy logic hybrid structures and algorithms, Doctorate, C.ŞENOL(Student), 2010
Yıldırım T., Ertürk S., Unsupervised segmentation of hyperspectral images, Doctorate, G.BİLGİN(Student), 2009
Yıldırım T., The IP2C optimization by materials scouting, Postgraduate, E.SAYGI(Student), 2009
Yıldırım T., Technology independent short channel CMOS circuit design using artificial neural networks, Doctorate, N.KAHRAMAN(Student), 2008
Yıldırım T., Mimic recognition using neural networks, Postgraduate, M.YASAV(Student), 2008
Yıldırım T., Investigation of electromyogram signals with artificial neural networks, Postgraduate, M.ÖZSERT(Student), 2007
Yıldırım T., New ANN approaches with optimum performance and hardware design for pattern recognition, Doctorate, Ö.POLAT(Student), 2007
Yıldırım T., Mixed mode hardware design of a general purposed artificial neural network, Doctorate, B.ERKMEN(Student), 2007
Yıldırım T., Optimization of radial basis function networks by genetic algorithms, Postgraduate, G.YAZICI(Student), 2006
Yıldırım T., Face detection using artificial neural networks, Postgraduate, S.ESER(Student), 2006
Yıldırım T., Chaotic time-series prediction with artificial neural networks: The case of earthquake data, Postgraduate, U.FIRAT(Student), 2006
Yıldırım T., Robot training using neural networks, Postgraduate, Ü.YÜCEL(Student), 2005
Yıldırım T., Artificial neural network realization with hybrid hardware: AY integrated circuit, Doctorate, M.AVCI(Student), 2005

Yıldırım T., Hand gesture recognition using artifical neural networks, Postgraduate, G.GÖKNAR(Student), 2005
Yıldırım T., Image compression using artifical neural networks, Postgraduate, U.KERPİÇ(Student), 2005
Yıldırım T., Detection and classification of fingerprints using artificial neural networks, Postgraduate, S.KÖSE(Student), 2005
Yıldırım T., Signature recognition using standard and hybrid neural network configurations, Postgraduate, C.ŞENOL(Student), 2004
Yıldırım T., GRNN usage for medical diagnosis and design circuit blocks, Postgraduate, R.ACAR(Student), 2004
Yıldırım T., A visual software development for implementation of logic functions based on pass transistor logic, Postgraduate, M.CEM(Student), 2004
Yıldırım T., 3-D computer vision using artificial neural networks, Postgraduate, M.MERCİMEK(Student), 2003
Yıldırım T., Neural network based decision method for MOFSET channel lenght and width, Postgraduate, M.YALÇIN(Student), 2003
Yıldırım T., Neuron design with FGMOS transistors and classifier applications, Postgraduate, F.KELEŞ(Student), 2003
Yıldırım T., Investigation of artificial neural network structure suitable for electronic retina design, Postgraduate, N.COŞKUN(Student), 2003
Yıldırım T., Protocol layer design of USB device interface, Postgraduate, B.KAPANOĞLU(Student), 2001

## Research Infrastructure Information

Yıldırım T., Cyber Security and Biometric Research Consultancy and Test Center, June 2015
Yıldırım T., Kahraman N., Machine Intelligence and Electronic Design Automation Lab, October 2011

## Education Infrastructure Information

Yıldırım T., Cyber Security and Biometric Research Application Lab, June 2015

## Articles

I. **Artificial intelligence-assisted risk prediction of postoperative pulmonary complications in non-small cell lung cancer surgery**
Özçıbık Işık G., Özçıbık O. S., YILDIRIM T., KILIÇ B., ERŞEN E., Kaynak M. K., TURNA A., KARA H. V.
Journal of Cardiothoracic Surgery, vol.21, no.1, 2026 (SCI-Expanded, Scopus)

II. **Radio frequency identification and real-time security of LoRa devices with deep learning on embedded GPU**
Sakacı F. H., YILDIRIM T.
Computer Networks, vol.274, 2026 (SCI-Expanded, Scopus)

III. **Identification of electronic circuit boards through electromagnetic emission signals by using deep learning**
Sakaci F. H., YILDIRIM T.
Journal of Electromagnetic Waves and Applications, vol.40, no.9, pp.1550-1565, 2026 (SCI-Expanded, Scopus)

IV. **Prediction of postoperative intensive care unit admission with artificial intelligence models in non-small cell lung carcinoma**
Isik G. O., Kilic B., Ersen E., Kaynak M. K., Turna A., Ozcibik O. S., YILDIRIM T., KARA H. V.
EUROPEAN JOURNAL OF MEDICAL RESEARCH, vol.30, no.1, 2025 (SCI-Expanded)

V. **Can artificial intelligence models predict hospital stays following non-small cell lung carcinoma surgery?**
Işık G. Ö., Özçıbık O. S., YILDIRIM T., KILIÇ B., ERŞEN E., Kaynak M. K., TURNA A., KARA H. V.
Kardiochirurgia i Torakochirurgia Polska, vol.22, no.3, pp.163-168, 2025 (ESCI, Scopus)

VI. **Conducted Emission signal-based identification and real-time hardware security with deep learning**
Sakacı F. H., YILDIRIM T.
Engineering Applications of Artificial Intelligence, vol.136, 2024 (SCI-Expanded, Scopus)

VII. **A comparative analysis of multi-biometrics performance in human and action recognition using silhouette thermal-face and skeletal data**
KURBAN O. C., YILDIRIM T.
Neural Networks, vol.170, pp.1-17, 2024 (SCI-Expanded, Scopus)

VIII. **Welcome Message from the Conference Chairpersons**
Badica C., YILDIRIM T.
18th International Conference on INnovations in Intelligent SysTems and Applications, INISTA 2024, 2024 (Scopus)

IX. **From traditional to smart human resources management**
Kambur E., Yildirim T.
INTERNATIONAL JOURNAL OF MANPOWER, vol.44, no.3, pp.422-452, 2023 (SSCI, Scopus)

X. **Temporal Convolutional Networks with RNN approach for chaotic time series prediction**
Dudukcu H. V., Taskiran M., Taskiran Z. G. C., Yildirim T.
Applied Soft Computing, vol.133, 2023 (SCI-Expanded, Scopus)

XI. **INISTA 2023 Committee Message**
Badica C., Bellatreche L., Chbeir R., YILDIRIM T.
17th International Conference on INnovations in Intelligent SysTems and Applications, INISTA 2023 - Proceedings, 2023 (Scopus)

XII. **Bluetooth Low Energy-based Indoor Localization using Artificial Intelligence**
Yıldırım T., Ndebugre M. Y.
The European Journal of Research and Development, vol.2, no.3, pp.1-15, 2022 (Peer-Reviewed Journal)

XIII. **Surrogate-assisted optimization of 3D printed ceramic nonuniform nonplanar microstrip filter**
Mahouti T., KUŞKONMAZ N., YILDIRIM T.
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.64, no.8, pp.1376-1381, 2022 (SCI-Expanded, Scopus)

XIV. **Human and action recognition using adaptive energy images**
KURBAN O. C., ÇALIK N., YILDIRIM T.
PATTERN RECOGNITION, vol.127, 2022 (SCI-Expanded, Scopus)

XV. **Advances on innovative issues in intelligent systems and applications**
YILDIRIM T., Ivanovic M., Bellatreche L.
CONCURRENCY AND COMPUTATION-PRACTICE & EXPERIENCE, vol.34, no.14, 2022 (SCI-Expanded, Scopus)

XVI. **Speaker Accent Recognition Using MFCC Feature Extraction and Machine Learning Algorithms**
AYRANCI A. A., ATAY S., YILDIRIM T.
International Journal of Advances in Engineering and Pure Sciences, vol.33, pp.17-27, 2021 (TRDizin)

XVII. **Artificial intelligence-based design optimization of nonuniform microstrip line band pass filter**
Mahouti T., YILDIRIM T., KUŞKONMAZ N.
INTERNATIONAL JOURNAL OF NUMERICAL MODELLING-ELECTRONIC NETWORKS DEVICES AND FIELDS, vol.34, no.6, 2021 (SCI-Expanded, Scopus)

XVIII. **Blood glucose prediction with deep neural networks using weighted decision level fusion**
DÜDÜKÇÜ H. V., TAŞKIRAN M., YILDIRIM T.
BIOCYBERNETICS AND BIOMEDICAL ENGINEERING, vol.41, no.3, pp.1208-1223, 2021 (SCI-Expanded, Scopus)

XIX. **A Comprehensive Survey of Databases and Deep Learning Methods for Cybersecurity and Intrusion Detection Systems**
Gümüşbaş D., Yıldırım T., Genovese A., Scotti F.
IEEE SYSTEMS JOURNAL, vol.15, no.2, pp.1717-1731, 2021 (SCI-Expanded, Scopus)

XX. **A hybrid approach based on multiple Eigenvalues selection (MES) for the automated grading of a brain tumor using MRI**
Al-Saffar Z. A., YILDIRIM T.
COMPUTER METHODS AND PROGRAMS IN BIOMEDICINE, vol.201, 2021 (SCI-Expanded, Scopus)

XXI. **Preface**
Ivanovic M., YILDIRIM T., Trajcevski G.
INISTA 2020 - 2020 International Conference on INnovations in Intelligent SysTems and Applications, Proceedings, 2020 (Scopus)

XXII. **A swot analysis to raise awareness about cyber security and proper use of social media: Istanbul sample**
TOSUN N., ALTINÖZ M., ÇAY E., ÇİNKILIÇ T., GÜLSEÇEN S., YILDIRIM T., AYDIN M. A., METİN B., AYVAZ REİS Z., ÜNLÜ N.
International Journal of Curriculum and Instruction, vol.12, pp.271-294, 2020 (Peer-Reviewed Journal)

XXIII. **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 (SCI-Expanded, Scopus)

XXIV. **Offline Signature Identification and Verification Based on Capsule Representations**
Gumusbas D., YILDIRIM T.
CYBERNETICS AND INFORMATION TECHNOLOGIES, vol.20, no.5, pp.60-67, 2020 (ESCI, Scopus)

XXV. **Daily Motion Recognition System by a Triaxial Accelerometer Usable in Different Positions**
Kurban O. C., YILDIRIM T.
IEEE SENSORS JOURNAL, vol.19, no.17, pp.7543-7552, 2019 (SCI-Expanded, Scopus)

XXVI. **Large-scale offline signature recognition via deep neural networks and feature embedding**
Çalık N., Kurban O. C., Yilmaz A. R., Yıldırım T., Durak Ata L.
Neurocomputing, vol.359, pp.1-14, 2019 (SCI-Expanded, Scopus)

XXVII. **Preface**
Piuri V., Yildirim T., Koprinkova-Hristova P.
IEEE International Symposium on INnovations in Intelligent SysTems and Applications, INISTA 2019 - Proceedings, 2019 (Scopus)

XXVIII. **Message from the Chairs**
ÇETİN A., Yildirim T.
7th International Istanbul Smart Grids and Cities Congress and Fair, ICSG 2019 - Proceedings, pp.5, 2019 (Scopus)

XXIX. **Görüntü İşleme Ve YSA Kullanarak Araç Jantları Paketlenmesinin Hatasızlaştırılması**
Gökay G., YILDIRIM T.
Akıllı Sistemler ve Uygulamaları Dergisi, 2018 (Peer-Reviewed Journal)

XXX. **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 (SCI-Expanded, Scopus)

XXXI. **Preface**
Ozyildirim B. M., Yildirim T.
Proceedings - 2018 Innovations in Intelligent Systems and Applications Conference, ASYU 2018, 2018 (Scopus)

XXXII. **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 (Peer-Reviewed Journal)

XXXIII. **Preface**
Jedrzejowicz P., Yildirim T., Czarnowski I.
Proceedings - 2017 IEEE International Conference on INnovations in Intelligent SysTems and Applications, INISTA 2017, 2017 (Scopus)

XXXIV. **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, no.2, pp.762-777, 2017 (SCI-Expanded, Scopus)

XXXV. **Noninvasive Glucose Measurement for Diabetes Mellitus Patients**
Düdükçü H. V., Yıldırım T.

Current Trends in Biomedical Engineering Biosciences, vol.2, pp.1-3, 2017 (Peer-Reviewed Journal)

XXXVI. **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, no.1, pp.334-344, 2017 (SCI-Expanded, Scopus)

XXXVII. **Process independent automated sizing methodology for current steering DAC**
Vural R., Kahraman N., Erkmen B., Yıldırım T.
INTERNATIONAL JOURNAL OF ELECTRONICS, vol.102, no.10, pp.1713-1734, 2015 (SCI-Expanded, Scopus)

XXXVIII. **Welcome message**
Camacho D., YILDIRIM T., Nguyen N. T., Badica C., Salcedo S.
INISTA 2015 - 2015 International Symposium on Innovations in Intelligent SysTems and Applications, Proceedings, 2015 (Scopus)

XXXIX. **New statistical features for the design of fiber optic statistical mode sensors**
Efendioglu H. S., YILDIRIM T., Toker O., Fidanboylu K.
OPTICAL FIBER TECHNOLOGY, vol.19, no.4, pp.279-284, 2013 (SCI-Expanded, Scopus)

XL. **A Mixed Mode Neural Network Circuitry for Object Recognition Application**
Erkmen B., Vural R., Kahraman N., Yıldırım T.
CIRCUITS SYSTEMS AND SIGNAL PROCESSING, vol.32, no.1, pp.29-46, 2013 (SCI-Expanded, Scopus)

XLI. **Analog active filter component selection with nature inspired metaheuristics**
Vural R., Bozkurt U., YILDIRIM T.
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.67, no.3, pp.197-205, 2013 (SCI-Expanded, Scopus)

XLII. **Guest editorial**
Yildirim T., Yüksel M. E.
Turkish Journal of Electrical Engineering and Computer Sciences, vol.20, no.2, 2012 (SCI-Expanded, Scopus, TRDizin)

XLIII. **Performance Evaluation of Evolutionary Algorithms for Optimal Filter Design**
Vural R., YILDIRIM T., Kadioglu T., Basargan A.
IEEE TRANSACTIONS ON EVOLUTIONARY COMPUTATION, vol.16, no.1, pp.135-147, 2012 (SCI-Expanded, Scopus)

XLIV. **Analog circuit sizing via swarm intelligence**
Vural R., YILDIRIM T.
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.66, no.9, pp.732-740, 2012 (SCI-Expanded, Scopus)

XLV. **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, no.8, pp.2936-2944, 2011 (SCI-Expanded, Scopus)

XLVI. **Investigation of particle swarm optimization for switching characterization of inverter design**
Vural R., DER O., YILDIRIM T.
EXPERT SYSTEMS WITH APPLICATIONS, vol.38, no.5, pp.5696-5703, 2011 (SCI-Expanded, Scopus)

XLVII. **ROC Analysis as a Useful Tool for Prformance Evaluation of Artificial Neural Networks**
Tokan F., Yıldırım T., Türker Tokan N.
LECTURE NOTES IN ARTIFICIAL INTELLIGENCE, vol.4132, pp.923-931, 2010 (SCI-Expanded, Scopus)

XLVIII. **Particle swarm optimization based inverter design considering transient performance**
Vural R., DER O., YILDIRIM T.
DIGITAL SIGNAL PROCESSING, vol.20, no.4, pp.1215-1220, 2010 (SCI-Expanded, Scopus)

XLIX. **FPGA implementation of a General Regression Neural Network: An embedded pattern classification system**
Polat O., Yildirim T.
DIGITAL SIGNAL PROCESSING, vol.20, no.3, pp.881-886, 2010 (SCI-Expanded, Scopus)

L. **Conic Section Function Neural Network Circuitry for Offline Signature Recognition**
Erkmen B., Kahraman N., Vural R., Yıldırım T.
IEEE TRANSACTIONS ON NEURAL NETWORKS, vol.21, no.4, pp.667-672, 2010 (SCI-Expanded, Scopus)

LI. **Fuzzy Neural Networks for Medical Diagnosis**
Canan S., Yıldırım T.
International Journal of Reasoning-based Intelligent Systems, vol.2, pp.265-274, 2010 (Scopus)

LII. **Prediction of Force Measurements of a Microbend Sensor Based on an Artificial Neural Network**
Efendioglu H. S., YILDIRIM T., Fidanboylu K.
SENSORS, vol.9, no.9, pp.7167-7176, 2009 (SCI-Expanded, Scopus)

LIII. **Technology independent circuit sizing for standard cell based design using neural networks**
KAHRAMAN N., YILDIRIM T.
DIGITAL SIGNAL PROCESSING, vol.19, no.4, pp.708-714, 2009 (SCI-Expanded, Scopus)

LIV. **THRESHOLD VOLTAGE MODELING USING NEURAL NETWORKS**
Kahraman N., Erkmen B., Yıldırım T.
NEURAL NETWORK WORLD, vol.19, no.3, pp.255-262, 2009 (SCI-Expanded, Scopus)

LV. **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, no.4, pp.673-677, 2008 (SCI-Expanded, Scopus)

LVI. **Message from the Chairs**
Micheli-Tzanakou E., Kaynak O., Demidenko S., Ruspini E., Scotti F., YILDIRIM T.
CIMSA 2008 - IEEE Conference on Computational Intelligence for Measurement Systems and Applications Proceedings, 2008 (Scopus)

LVII. **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 (SCI-Expanded, Scopus)

LVIII. **Genetic optimization of GRNN for pattern recognition without feature extraction**
Polat O., Yildirim T.
EXPERT SYSTEMS WITH APPLICATIONS, vol.34, no.4, pp.2444-2448, 2008 (SCI-Expanded, Scopus)

LIX. **Hand geometry identification without feature extraction by general regression neural network**
Polat O., Yildirim T.
EXPERT SYSTEMS WITH APPLICATIONS, vol.34, no.2, pp.845-849, 2008 (SCI-Expanded, Scopus)

LX. **Statistical neural network based classifiers for letter recognition**
Erkmen B., Yıldırım T.
Lecture Notes in Control and Information Sciences, vol.345, pp.1081-1086, 2006 (SCI-Expanded, Scopus)

LXI. **Pattern recognition without feature extraction using probabilistic neural network**
Polat Ö., Yıldırım T.
Lecture Notes in Control and Information Sciences, vol.345, pp.402-409, 2006 (SCI-Expanded, Scopus)

LXII. **Conic section function neural networks for sonar target classification and performance evaluation using ROC analysis**
Erkmen B., Yıldırım T.
Lecture Notes in Control and Information Sciences, vol.345, pp.779-784, 2006 (SCI-Expanded, Scopus)

LXIII. **Artificial Neural Design of Microstrip Antennas**
Türker Tokan N., Güneş F., Yıldırım T.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.1, pp.1-6, 2006 (SCI-Expanded, Scopus, TRDizin)

LXIV. **Artificial Neural Networks Applied to the Design of Microstrip Antennas**
Türker Tokan N., Güneş F., Yıldırım T.
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## Non Academic Experience

Institute of Automation, Chinese Academy of Sciences, Ziyaretçi profesör
Bulgarian Academy of Sciences, Ziyaretçi profesör
Universidad Autónoma de Madrid, Ziyaretçi profesör
University of Liverpool, Ziyaretçi profesör
University of Liverpool, Ziyaretçi profesör
University of Liverpool, Araştırma Görevlisi
ERA Elektronik A.Ş., AR-GE mühendisi