

## Prof. Tlay YILDIRIM

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: A-6996-2018

ScopusID: 7005994652

Yoksis Researcher ID: 3270

### Education Information

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, Mhendislik Fakltesi, Elektronik Ve Haberleřme Mh. Blm, 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 endstriyel kontrol uygulaması, Yıldız Teknik niversitesi, Graduate School of Natural and Applied Sciences, Elektronik Ve Haberleřme Mhendislięi, 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, Yildiz Technical University, Faculty Of Electrical & Electronics, Electronics And Communication Engineering, 2006 - Continues

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 Kurulu Üyesi, Yildiz Technical University, Faculty Of Electrical & Electronics, 2010 - 2013

Fakülte Yönetim 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 FINGERED MOVEMENT 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.ALİBEK(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.NİYZAZ(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 artificial neural networks, Postgraduate, G.GÖKNAR(Student), 2005

Yıldırım T., Image compression using artificial 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 length 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

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **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)
- II. **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)
- III. **From traditional to smart human resources management**  
Kambur E., Yildirim T.  
INTERNATIONAL JOURNAL OF MANPOWER, vol.44, no.3, pp.422-452, 2023 (SSCI)
- IV. **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)
- V. **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)
- VI. **Human and action recognition using adaptive energy images**  
KURBAN O. C., ÇALIK N., YILDIRIM T.  
PATTERN RECOGNITION, vol.127, 2022 (SCI-Expanded)
- VII. **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)
- VIII. **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)

- IX. **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)
- X. **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)
- XI. **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)
- XII. **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)
- XIII. **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)
- XIV. **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)
- XV. **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)
- XVI. **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)
- XVII. **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)
- XVIII. **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)
- XIX. **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)
- XX. **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)
- XXI. **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)
- XXII. **Guest editorial**  
Yildirim T., Yüksel M. E.  
Turkish Journal of Electrical Engineering and Computer Sciences, vol.20, no.2, 2012 (SCI-Expanded)
- XXIII. **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)
- XXIV. **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)
- XXV. **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)
- XXVI. **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)
- XXVII. **ROC Analysis as a Useful Tool for Performance 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)
- XXVIII. **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)
- XXIX. **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)
- XXX. **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)
- XXXI. **Prediction of Force Measurements of a Microbend Sensor Based on an Artificial Neural Network**  
Efendioglu H. S., YILDIRIM T., Fidanboyu K.  
SENSORS, vol.9, no.9, pp.7167-7176, 2009 (SCI-Expanded)
- XXXII. **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)
- XXXIII. **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)
- XXXIV. **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)
- XXXV. **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)
- XXXVI. **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)
- XXXVII. **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)
- XXXVIII. **Pattern recognition without feature extraction using probabilistic neural network**  
Polat Ö., Yildirim T.  
Lecture Notes in Control and Information Sciences, vol.345, pp.402-409, 2006 (SCI-Expanded)
- XXXIX. **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 (SCI-Expanded)
- XL. **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)
- XLI. **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)
- XLII. **Statistical neural network based classifiers for letter recognition**  
ERKMEN B., YILDIRIM T.  
INTELLIGENT COMPUTING IN SIGNAL PROCESSING AND PATTERN RECOGNITION, vol.345, pp.1081-1086, 2006 (SCI-Expanded)
- XLIII. **Neural Network Based MOS Transistor Geometry Decision for TSMC 0 18 Process Technology**  
Mutlu A., YILDIRIM T.  
Lecture Notes in Computer Science, 2006 (SCI-Expanded)
- XLIV. **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 (SCI-Expanded)
- XLV. **Comparative study on computerised diagnostic performance of hepatitis disease using ANNs**  
Vural R., Ozyilmaz L., Yildirim T.  
COMPUTATIONAL INTELLIGENCE, PT 2, PROCEEDINGS, vol.4114, pp.1177-1182, 2006 (SCI-Expanded)
- XLVI. **Artificial neural design of microstrip antennas**  
TÜRKER TOKAN N., GÜNEŞ F., YILDIRIM T.  
Turkish Journal of Electrical Engineering & Computer Sciences, 2006 (SCI-Expanded)
- XLVII. **Neural network based MOSFET channel length and width decision method for analogue integrated circuits**  
Avcı M., Babaç M. Y., Yildirim T.  
INTERNATIONAL JOURNAL OF ELECTRONICS, vol.92, no.5, pp.281-293, 2005 (SCI-Expanded)
- XLVIII. **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 (SCI-Expanded)
- XLIX. **Active learning for probabilistic neural networks**  
BOLAT B., Yıldırım T.  
ADVANCES IN NATURAL COMPUTATION, PT 1, PROCEEDINGS, vol.3610, pp.110-118, 2005 (SCI-Expanded)
- L. **ROC analysis for fetal hypoxia problem by artificial neural networks**  
ÖZYILMAZ L., YILDIRIM T.  
Lecture Notes in Artificial Intelligence, 2004 (SCI-Expanded)
- LI. **General design method for complementary pass transistor logic circuits**  
avcı m., YILDIRIM T.  
Electronics Letters, 2003 (SCI-Expanded)
- LII. **Optimization of the deflection basin by genetic algorithm and neural network approach**  
Terzi S., Saltan M., YILDIRIM T.  
Lecture Notes in Computer Science, 2003 (SCI-Expanded)
- LIII. **Reduction of complexity in conic section function neural network**  
ÖZYILMAZ L., YILDIRIM T.  
KYBERNETES, vol.32, pp.540-547, 2003 (SCI-Expanded)
- LIV. **Dimensionality reduction in conic section function neural network**  
YILDIRIM T., ÖZYILMAZ L.  
SADHANA-ACADEMY PROCEEDINGS IN ENGINEERING SCIENCES, vol.27, pp.675-683, 2002 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Welcome Message from the Conference Chairpersons**  
Badica C., YILDIRIM T.  
18th International Conference on INnovations in Intelligent SysTems and Applications, INISTA 2024, 2024 (Scopus)
- II. **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)
- III. **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)
- IV. **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 (Peer-Reviewed Journal)
- V. **Preface**  
Ivanovic M., YILDIRIM T., Trajcevski G.  
INISTA 2020 - 2020 International Conference on INnovations in Intelligent SysTems and Applications, Proceedings, 2020 (Scopus)
- VI. **A swot analysis to raise awareness about cyber security and proper use of social media: Istanbul sample**  
TOSUN N., ALTINÖZ M., ÇAY E., ÇINKILIÇ 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)
- VII. **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)
- VIII. **Preface**  
Piuri V., Yildirim T., Koprinkova-Hristova P.  
IEEE International Symposium on INnovations in Intelligent SysTems and Applications, INISTA 2019 - Proceedings, 2019 (Scopus)
- IX. **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)
- X. **Görüntü İşleme Ve YSA Kullanarak Araç Jantları Paketlenmesinin Hatasızlaştırılması**  
Gökay G., YILDIRIM T.  
Akıllı Sistemler ve Uygulamaları Dergisi, 2018 (Peer-Reviewed Journal)
- XI. **Preface**  
Ozyildirim B. M., Yildirim T.  
Proceedings - 2018 Innovations in Intelligent Systems and Applications Conference, ASYU 2018, 2018 (Scopus)
- XII. **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)
- XIII. **Preface**  
Jedrzejowicz P., Yildirim T., Czarnowski I.  
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- XIV. **Noninvasive Glucose Measurement for Diabetes Mellitus Patients**  
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## Supported Projects

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Eker O., Aker M. D., Yıldırım T., TUBITAK Project, Classification of people who pose a danger/problem according to environmental conditions by performing emotional analysis with the images taken from the camera, 2021 - 2023

Yıldırım T., Project Supported by Other Private Institutions, Yapay Zeka Tabanlı Hastane Acil Servis Triyaj Sistemi Karar Destek Yazılımı, 2021 - 2022

Yıldırım T., Kahraman N., Project Supported by Other Private Institutions, Gün Danışmanlık Hukukta Yapay Zeka Uygulamaları, Stratejileri ve Fizibilite Çalışması, 2021 - 2021

Güler A. T., Çelik U., Batmaz S., Atasoy L., Yıldırım T., TUBITAK Project, Evaluation of the Effect of Virtual Reality Technology on Reading Using the EOG Method, 2020 - 2021

Demir C., Kidal İ. U., Korkmaz F., Yıldırım T., TUBITAK Project, UAV Supported Robot Arm, 2019 - 2020

Türel M. S. U., Görçin A., Yıldırım T., Bolat B., Serbes A., Niyaz Ö., Project Supported by Defense Industry, Multidimensional Wireless Communication Signal Analysis Platform (EXPLORER), 2018 - 2020

YILDIRIM T., BESER F., Project Supported by Higher Education Institutions, Çoklu Otonom İnsansız Deniz Araçları İçin Rota Planlanması ve Engelden Sakınma, 2018 - 2018

YILDIRIM T., Özkaya Ş. N., Project Supported by Higher Education Institutions, Görsel Uyarılara Karşı Aktif Beyin Bölgelerindeki Elektriksel Aktivitelerin İncelenmesi, 2018 - 2018

Mutlu U., Demir T., Yıldırım T., TUBITAK Project, KiNELLA: Motion Controlled Virtual Reality Robot Arm with Kinect, 2017 - 2018

YILDIRIM T., NİYAZ Ö., Project Supported by Higher Education Institutions, MOBİL TELEFON KAMERASINDAN ALINAN BİLEK VE AVUÇ İÇİ GÖRÜNTÜLERİ İLE BİYOMETRİK KİMLİKLENDİRME, 2016 - 2017

Bolat B., Uysal S., Yıldırım T., Project Supported by Higher Education Institutions, Lung Cancer Diagnosis with Breathing and Speaking, 2013 - 2017

Yıldırım T., Kahraman N., Bolat B., Acar Vural R., Erkmén B., Ayten U. E., Müftüoğlu Z., Kurban O. C., Uysal H., Uysal S., Development Agency, Cyber Security and Biometric Research Consultancy and Test Center, 2014 - 2016

Durak Ata L., Yıldırım T., Erkmén B., TUBITAK Project, Detection of Low-probability-of-intercept Radar Signals by Time-Frequency Signal Processing and Extraction of their Parameters, 2013 - 2015

Fidanboylu K., Yıldırım T., TÜBİTAK - AB COST Project, Development of high performance fiber optic sensors based on intensity modulation using hetero-core optical fibers and designing smart sensors with artificial intelligence techniques, 2012 - 2013

Yıldırım T., Acar Vural R., Kahraman N., Erkmén B., Project Supported by Higher Education Institutions, Electronic Circuit Design Automation with Particle Swarm Optimization and Artificial Neural Networks, 2010 - 2012

YILDIRIM T., Project Supported by Higher Education Institutions, Eşikaltı FGMOS transistörler ile analog YSA devre bloklarının tasarımı, 2008 - 2012

Yıldırım T., Kahraman N., Erkmén B., Acar Vural R., Project Supported by Higher Education Institutions, Design of Short Channel CMOS Circuits with Artificial Neural Networks Independent from Production Technology Parameters, 2006 - 2009

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Yıldırım T., Avcı M., Kahraman N., Erkmén B., Project Supported by Higher Education Institutions, Development and Testing of Artificial Neural Network Based Software for Selection of MOS Semiconductor Parameters in Analog Integrated Circuit Design, 2004 - 2006

Yıldırım T., Özyılmaz L., Acar Vural R., Project Supported by Higher Education Institutions, Investigation of the Use of Artificial Neural Networks (ANN) in the Medical Field, 2004 - 2005

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## **Metrics**

Publication: 310

Citation (WoS): 945

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## **Awards**

Yıldırım T., TPYME "Çetin Ceviz" Yılın En İyi Kadın Proje Yöneticisi Ödülü, Türk Proje Yönetim Meslek Enstitüsü, March 2016

Kahraman N., Yıldırım T., Cadence Design Contest for PhD Students, Cadence, April 2008

## **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