

## Assoc. Prof. Nihan KAHRAMAN

### Personal Information

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### International Researcher IDs

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Yoksis Researcher ID: 173753

### Education Information

Doctorate, Yildiz Technical University, Faculty Of Electrical & Electronics, Electronics And Communication Engineering, Turkey 2003 - 2008

Postgraduate, Yildiz Technical University, Faculty Of Electrical & Electronics, Electronics And Communication Engineering, Turkey 2001 - 2003

Undergraduate, Yildiz Technical University, Faculty Of Electrical & Electronics, Electronics And Communication Engineering, Turkey 1997 - 2001

### Foreign Languages

English, C1 Advanced

### Research Areas

Computer Sciences, algorithms, Simulation and Modelling, Information Security and Reliability, Hiding Information, Computer Vision, Computer Vision, Equipment, Integrated Circuits, Artificial Intelligence, Computer Learning and Pattern Recognition, Human Computer Interaction, Pattern Recognition and Image Processing, Neural Networks, Electrical and Electronics Engineering, Electronic, Electronic Circuits, Engineering and Technology

### Academic Titles / Tasks

Associate Professor, Yildiz Technical University, Faculty Of Electrical & Electronics, Electronics And Communication Engineering, 2020 - Continues

Assistant Professor, Yildiz Technical University, Faculty Of Electrical & Electronics, Electronics And Communication Engineering, 2009 - 2020

### Academic and Administrative Experience

Deputy Head of Department, Yildiz Technical University, Faculty Of Electrical & Electronics, Electronics And Communication Engineering, 2017 - 2022

## Courses

Elektronik ve Haberleşme Mühendisliğine Giriş, Undergraduate, 2020 - 2021

Biyometrik Sistem Tasarımı, Doctorate, 2020 - 2021

Analog Integrated Circuits, Undergraduate, 2020 - 2021

## Advising Theses

Kahraman N., Eroğlu Erdem Ç., Yüz ifadelerinin görünüm tabanlı ve dinamik özellikleri kullanılarak olumsuz koşullar altında hibrit yüz tanıma, Doctorate, M.TAŞKIRAN(Student), 2022

Kahraman N., Optimized control and power sharing in microgrid network, Doctorate, M.S.(Student), 2022

Kahraman N., Uludağ U., Fusion of dynamic and static features in signature verification, Doctorate, M.SEMİH(Student), 2022

Kahraman N., Yelten M. B., Modelling and Characterization of OLEDs for Automotive Lighting Applications, Doctorate, A.GÜNEY(Student), 2020

Kahraman N., Low voltage ADC Design, Postgraduate, B.COŞKUN(Student), 2020

Kahraman N., Organik LED'ler için yaşlanma analizi, Postgraduate, E.BERK(Student), 2019

Kahraman N., Robotic Surface Material Detection System, Postgraduate, S.Ertuğrul(Student), 2019

Kahraman N., Yüz Tanıma Sistemlerinde Canlılık Analizi, Postgraduate, T.Bozik(Student), 2019

Kahraman N., Improved extreme learning machines and applications, Doctorate, M.ABD(Student), 2018

Kahraman N., Çoklu-biyometrik verilerle görüntü damgalama, Doctorate, A.TUTAK(Student), 2018

Kahraman N., Konuşmacı ve konuşma tabanlı kaskad biyometrik kontrol sistemi tasarımı, Postgraduate, R.SALHALDEN(Student), 2018

Kahraman N., Hiperspektral görüntülerin ayrıştırma temelli analizi, Postgraduate, B.KOCAKUŞAKLAR(Student), 2017

Kahraman N., Kızılötesi görüntülerde hedef takibi, Postgraduate, B.ALPTEKİN(Student), 2017

Kahraman N., Internet of things based battery management systems applications, Postgraduate, E.YILMAZ(Student), 2017

Kahraman N., İnverter klima akıllı etkileşim sistem tasarımı, Postgraduate, M.TAŞKIRAN(Student), 2016

Kahraman N., Ev tipi klimalara kablosuz ağ üzerinden uzaktan erişim ve kontrol ile akıllı ev teknolojilerinin geliştirilmesi, Postgraduate, M.KARGACI(Student), 2015

Kahraman N., İnverter klima elektronik kontrol sistemi tasarımı, Postgraduate, E.SARIKAYA(Student), 2014

Kahraman N., Metaheuristic algorithms in analog integrated circuit design, Postgraduate, İ.CANTÜRK(Student), 2012

Kahraman N., Bulanık görüntülerin yapay sinir ağları ile onarılması, Postgraduate, İ.İPEK(Student), 2012

## Taught Courses And Trainings

Kahraman N., ERASMUS Training, 2013 - 2013

## Research Infrastructure Information

Yıldırım T., Kahraman N., Machine Intelligence and Electronic Design Automation Lab, October 2011

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

- MYFED: a dataset of affective face videos for investigation of emotional facial dynamics as a soft biometric for person identification**  
Saracbası Z. N., Erdem C. E., Taskiran M., Kahraman N.  
MACHINE VISION AND APPLICATIONS, vol.36, no.8, pp.1-15, 2025 (SCI-Expanded)
- Deep learning-powered multimodal biometric authentication: integrating dynamic signatures and facial data for enhanced online security**

- Saltürk S., Kahraman N.  
NEURAL COMPUTING AND APPLICATIONS, vol.36, no.19, pp.11311-11322, 2024 (SCI-Expanded)
- III. **UAV instantaneous power consumption prediction using LR-TCN with simple moving average**  
Dudukcu H. V., Taskiran M., Kahraman N.  
Concurrency and Computation: Practice and Experience, vol.36, no.3, 2024 (SCI-Expanded)
- IV. **Dynamic Tabu Search for Collision Avoidance in Autonomous Maritime Ships**  
Alptekin B., KAHRAMAN N.  
IEEE Access, vol.12, pp.89763-89775, 2024 (SCI-Expanded)
- V. **UAV sensor data applications with deep neural networks: A comprehensive survey**  
Düdükçü H. V., Taşkıran M., Kahraman N.  
ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE, vol.123, no.Part C, pp.1-17, 2023 (SCI-Expanded)
- VI. **Dynamic and static feature fusion for increased accuracy in signature verification**  
Sadak M. S., KAHRAMAN N., Uludag U.  
SIGNAL PROCESSING-IMAGE COMMUNICATION, vol.108, 2022 (SCI-Expanded)
- VII. **A deep neural network based toddler tracking system**  
Guney H., Aydin M., TAŞKIRAN M., KAHRAMAN N.  
CONCURRENCY AND COMPUTATION-PRACTICE & EXPERIENCE, vol.34, no.14, 2022 (SCI-Expanded)
- VIII. **Improved Optimal Control of Transient Power Sharing in Microgrid Using H-Infinity Controller with Artificial Bee Colony Algorithm**  
Jouda M. S., KAHRAMAN N.  
ENERGIES, vol.15, no.3, 2022 (SCI-Expanded)
- IX. **Hybrid face recognition under adverse conditions using appearance-based and dynamic features of smile expression**  
TAŞKIRAN M., KAHRAMAN N., EROĞLU ERDEM Ç.  
IET BIOMETRICS, vol.10, no.1, pp.99-115, 2021 (SCI-Expanded)
- X. **Face recognition: Past, present and future (a review)**  
Taşkıran M., Kahraman N., Eroğlu Erdem E.  
DIGITAL SIGNAL PROCESSING, vol.106, 2020 (SCI-Expanded)
- XI. **Experimental and modeling studies of automotive-qualified OLEDs under electrical stress**  
Guney A., Yelten M. B., Ferhanoğlu O., KAHRAMAN N.  
MICROELECTRONICS RELIABILITY, vol.111, 2020 (SCI-Expanded)
- XII. **A weighted voting ensemble of efficient regularized extreme learning machine**  
Abd Shehab M., Kahraman N.  
COMPUTERS & ELECTRICAL ENGINEERING, vol.85, 2020 (SCI-Expanded)
- XIII. **A novel memristive true random number generator design**  
Çam Z. G., Taşkıran M., Killoğlu M., Kahraman N., Sedef H.  
COMPEL-THE INTERNATIONAL JOURNAL FOR COMPUTATION AND MATHEMATICS IN ELECTRICAL AND ELECTRONIC ENGINEERING, vol.38, no.6, pp.1931-1947, 2019 (SCI-Expanded)
- XIV. **Novel Feature Extraction Methodology with Evaluation in Artificial Neural Networks Based Fingerprint Recognition System**  
KAHRAMAN N., ÇAM TAŞKIRAN Z. G., TAŞKIRAN M.  
TEHNICKI VJESNIK-TECHNICAL GAZETTE, vol.25, pp.112-119, 2018 (SCI-Expanded)
- XV. **Optimum, projected, and regularized extreme learning machine methods with singular value decomposition and L-2-Tikhonov regularization**  
Abd Shehab M., Kahraman N.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.26, no.4, pp.1685-1697, 2018 (SCI-Expanded)
- XVI. **Process independent automated sizing methodology for current steering DAC**  
Vural R., Kahraman N., Erkmén B., Yıldırım T.  
INTERNATIONAL JOURNAL OF ELECTRONICS, vol.102, no.10, pp.1713-1734, 2015 (SCI-Expanded)
- XVII. **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)
- XVIII. **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)
- XIX. **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)
- XX. **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)

## Articles Published in Other Journals

- I. **Robotic Surface Material Recognition System Using Sensor Network**  
Gökcan S. E., Kahraman N.  
Mühendislik Bilimleri ve Tasarım Dergisi, vol.7, no.1, pp.81-89, 2019 (Peer-Reviewed Journal)
- II. **Crowd Analysis with Fish Eye Camera**  
Tevetoğlu H. O., KAHRAMAN N.  
International Journal of Applied Control, Electrical and Electronics Engineering (IJACEEE), vol.6, pp.1-7, 2018 (Peer-Reviewed Journal)
- III. **Secure Data Transmission for Authentication with Multiple Biometric Systems Using Steganography and Encryption**  
Killoğlu M., Taşkiran M., Kahraman N.  
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.24, no.2, pp.173-179, 2018 (ESCI)
- IV. **Inverter air conditioner intelligent system design**  
Taşkiran M., Kahraman N., Usta Yoğun H.  
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.24, no.2, pp.205-213, 2018 (Peer-Reviewed Journal)
- V. **A New Chaotic Attractor for Random Number Generation Based on Memristive Circuit**  
ÇAM TAŞKIRAN Z. G., TAŞKIRAN M., KAHRAMAN N., SEDEF H.  
World Journal of Engineering Research and Technology, vol.4, no.1, pp.82-91, 2018 (Peer-Reviewed Journal)
- VI. **Developing A Novel Internet Of Things Based Main Card For Modular Battery Management Systems**  
YILMAZ E., KAHRAMAN N., HEINEMANN D.  
International Journal of Industrial Electronics and Electrical Engineering, vol.5, no.6, pp.56-61, 2017 (Peer-Reviewed Journal)
- VII. **The Effect of Impulse Denoising on Geometric Based Hyperspectral Unmixing**  
Kocakuşaklar B., KAHRAMAN N.  
International Journal of Natural Sciences Research, vol.4, no.5, pp.83-91, 2016 (Peer-Reviewed Journal)
- VIII. **Infrared Face Recognition in Forensics via Texture Analysis**  
KAHRAMAN N., ÖZCAN G. S., İBİŞHÜKÇÜ R.  
International Journal of Computing, Communication and Instrumentation Engineering, vol.3, no.1, pp.166-169, 2016 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **An Optimal Flow for Face Recognition: Analysis/Effects of Face Detection, Alignment and Cropping Techniques**

Gülşen M. F., Taşkıran M., Taşçı S. E., Kahraman N.

2024 26th International Conference on Digital Signal Processing and its Applications (DSPA), Moscow, Russia, 27 - 29 March 2024, pp.1-6

**II. Human Activity Recognition with Ensemble Learning**

Düdükcü H. V., Taşkıran M., Çam Taşkıran Z. G., Kahraman N.

2024 26th International Conference on Digital Signal Processing and its Applications (DSPA), Moscow, Russia, 27 - 29 March 2024, pp.1-6

**III. A PARADIGM SHIFT IN SIGNATURE PROCESSES: IN-AIR SIGNATURES WITH QR CODE INTEGRATION**

Saltürk S., Kahraman N.

IX-INTERNATIONAL EUROPEAN CONFERENCE ON INTERDISCIPLINARY SCIENTIFIC RESEARCH, Valencia, Spain, 19 - 21 January 2024, pp.145

**IV. Enhancing Passive Wi-Fi Sensor Data for Improved Activity Recognition Aktivite Tanıma için Pasif Wi-Fi Sensör Verilerinin İyileştirilmesi**

Gölcük S., Gürkan F., KAHRAMAN N.

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

**V. Fuzzy Logic-Based Safe Speed Calculation Method for Maritime Autonomous Surface Ship**

Alptekin B., KAHRAMAN N.

6th International Congress on Human-Computer Interaction, Optimization and Robotic Applications, HORA 2024, İstanbul, Turkey, 23 - 25 May 2024

**VI. A Fusion-Based Deep Neural Networks Approach for Face Liveness Detection**

Aydin M., Taskiran M., Kahraman N., Dudukcu H. V.

2023 International Conference on Innovations in Intelligent Systems and Applications (INISTA), Nabeul, Tunisia, 20 - 23 September 2023, pp.1-6

**VII. Instantaneous Power Consumption Prediction with Modified Temporal Convolutional Network for UAVs**

DÜDÜKÇÜ H. V., TAŞKIRAN M., KAHRAMAN N.

45th International Conference on Telecommunications and Signal Processing, TSP 2022, Virtual, Online, Czech Republic, 13 - 15 July 2022, pp.106-109

**VIII. Unmanned Aerial Vehicles (UAVs) Battery Power Anomaly Detection Using Temporal Convolutional Network with Simple Moving Average Algorithm**

DÜDÜKÇÜ H. V., TAŞKIRAN M., KAHRAMAN N.

16th International Conference on INnovations in Intelligent SysTems and Applications, INISTA 2022, Biarritz, France, 8 - 12 August 2022

**IX. Effects of environmental factors on EEG based person recognition**

SALTÜRK T., KAHRAMAN N.

2021 International Conference on INnovations in Intelligent SysTems and Applications, INISTA 2021, Kocaeli, Turkey, 25 - 27 August 2021

**X. LSTM and WaveNet Implementation for PredictiveMaintenance of Turbofan Engines**

Düdükcü H. V., Taşkıran M., Kahraman N.

2020 IEEE 20th International Symposium on Computational Intelligence and Informatics (CINTI), 5 - 07 November 2020, pp.151-156

**XI. Chaotic True Random Number Generator for Secure Communication Applications**

Jayawickrama C., Alaaddin A. s., Jung Y., Lee S., Song H., KAHRAMAN N.

ISOC 2020, 21 - 24 October 2020

**XII. Toddler Tracking System with Face Recognition and Object Tracking Using Deep Neural Network**

GÜNEY H., AYDIN M., TAŞKIRAN M., KAHRAMAN N.

2020 International Conference on INnovations in Intelligent SysTems and Applications (INISTA), Novi Sad, Serbia, Serbia, 24 - 26 August 2020

**XIII. Handwritten Signature Verification System Using Sound as a Feature**

SADAK M. S., KAHRAMAN N., ULUDAĞ U.

43rd International Conference on Telecommunications and Signal Processing (TSP), Milan, Italy, 2020, Milan, Italy, 7 - 09 July 2020, vol.1, pp.365-368

- XIV. **Optimized Control and Power Sharing in Microgrid Network**  
Jouda M., KAHRAMAN N.  
International Istanbul Smart Grids and Cities Congress and Fair, 25 - 26 April 2019
- XV. **Face Recognition Using Dynamic Features Extracted from Smile Videos**  
TAŞKIRAN M., KILLIOĞLU M., KAHRAMAN N., EROĞLU ERDEM Ç.  
2019 IEEE International Symposium on INnovations in Intelligent SysTems and Applications (INISTA), 3 - 05 July 2019
- XVI. **Comparison of CNN Tolerances to Intra Class Variety in Food Recognition**  
TAŞKIRAN M., KAHRAMAN N.  
2019 IEEE International Symposium on INnovations in Intelligent SysTems and Applications (INISTA), 3 - 05 July 2019
- XVII. **Aging Analysis on Organic Lighting Diode (OLED) Production for Passive Matrix Screens**  
erdoğan e. b., KAHRAMAN N.  
International Conference on Electrical and Electronics Engineering, 04 June 2019, pp.54-57
- XVIII. **An Improved Methodology for Fraud Detection in Face Recognition Systems**  
Bozik T., KAHRAMAN N.  
International Conference on Communication, Electronics and Electrical Engineering, 04 June 2019, pp.1-4
- XIX. **Smart Sensor for Home Appliances**  
HAYDAR E., AYTEN U. E., KAHRAMAN N.  
2018 6th International Conference on Control Engineering Information Technology (CEIT), 25 - 27 October 2018
- XX. **A cascaded voice biometric system**  
Salhalden A Abdalrahman R., BOLAT B., KAHRAMAN N.  
International Joint Conference of Information and Communication Technology, 27 - 28 January 2018
- XXI. **Face recognition using graph extreme learning machine with L21 norm regularization**  
Abd Shehab M., KAHRAMAN N., BİLGİN G.  
10th International Conference on Electrical and Electronics Engineering (ELECO), 30 November - 02 December 2017
- XXII. **A Real-Time System For Recognition Of American Sign Language By Using Deep Learning**  
TAŞKIRAN M., KILLIOĞLU M., KAHRAMAN N.  
41st International Conference on Telecommunications and Signal Processing (TSP), Athens, Greece, 4 - 06 July 2018, pp.258-261
- XXIII. **Multi-biometric Watermarking Based on SVD and 3D Spiral Optimization**  
Erözen A., Kahraman N.  
ICTACSE 2017 - International Conference on Theoretical and Applied Computer Science and Engineering, 10 - 11 November 2017
- XXIV. **Ön İşleme Adımlarının Geometrik Tabanlı Hiperspektral Ayrıştırma Algoritmalarına Etkisi**  
Kocakuşaklar B., Alptekin B., KAHRAMAN N.  
SIU 2017, Turkey, 15 - 18 May 2017
- XXV. **Radar Ekosu Kullanılarak Bulanık Mantık ile Gemilerin Sınıflandırılması**  
Alptekin B., Kocakuşaklar B., Kahraman N.  
SIU 2017, Turkey, 15 - 18 May 2017
- XXVI. **DEVELOPING A NOVEL INTERNET OF THINGS BASED MAIN CARD FOR MODULAR BATTERY MANAGEMENT SYSTEMS**  
YILMAZ E., KAHRAMAN N., HEINEMANN D.  
Researchfora International Conference, 23 - 24 April 2017
- XXVII. **Anti-Spoofing In Face Recognition with Liveness Detection Using Pupil Tracking**  
kilhoğlu m., TAŞKIRAN M., KAHRAMAN N.  
2017 IEEE 15th International Symposium on Applied Machine Intelligence and Informatics (SAMI), 26 - 28 January 2017

- XXVIII. **SINGLE TARGET TRACKING IN L0 GRADIENT MINIMIZED INFRARED IMAGE SEQUENCE BASED ON MODIFIED ROBUST KERNEL COVARIANCE DESCRIPTOR**  
Alptekin B., KAHRAMAN N.  
ICPAS 2017, 4 - 06 January 2017
- XXIX. **Hardware Application of Human Machine Interface in Smart Air Conditioners Using Hand Tracking**  
Acay E., Kahraman N., Taşkıran M., Kıyan T., Usta Yoğun H.  
IEEE 58th ELMAR Symposium, Zadar, Croatia, 12 - 14 September 2016, pp.269-272
- XXX. **Degraded Image Restoration Using Neural Networks**  
İpek İ., Kahraman N.  
ICENS 2016, Sarajevo, Bosnia And Herzegovina, 24 - 28 May 2016, pp.2657-2661
- XXXI. **Infrared Face Recognition in Forensics via Texture Analysis**  
Özcan G. S., İbışükçü R., Kahraman N.  
ICIAAC-16, United Kingdom, 24 - 25 March 2016, vol.3, pp.166-169
- XXXII. **An Efficient Method to Optimize Multi Layer Perceptron for Classification of Human Activities**  
Taşkıran M., Çam Z. G., Kahraman N.  
International Conference on Computer, Control and Communication Technologies (CCCT'xx15), 3 - 04 December 2015
- XXXIII. **Comparative Analog Circuit Design Automation Based on Multi Objective Evolutionary Algorithms an Application on CMOS Opamp**  
CANTÜRK İ., KAHRAMAN N.  
2015 38th International Conference on Telecommunications and Signal Processing (TSP), 9 - 11 July 2015
- XXXIV. **Ev Tipi Split Klimalara Kablosuz Ağ Üzerinden Uzaktan Erişim ve Kontrol**  
Kargacı M., Kahraman N., Usta Yoğun H., Javaheri H.  
Otomatik Kontrol Türk Milli KomitesiUlusal Toplantısı TOK, Turkey, 9 - 11 September 2015
- XXXV. **Ev Tipi Klimalara Entegre Edilebilecek İnsan Bilgisayar Etkileşimli Kontrol Sistemi Tasarımı**  
Tevetoğlu H. O., Kahraman N.  
SIU 2015, Turkey, 16 - 19 May 2015
- XXXVI. **Inverter Klima Elektronik Kontrol Sistemi Tasarımı**  
SARIKAYA E., KAHRAMAN N., USTA YOĞUN H., YAĞCI İ.  
Eleco 2014 Elektrik – Elektronik – Bilgisayar ve Biyomedikal Mühendisliği Sempozyumu, Bursa, Turkey, 27 - 29 November 2014
- XXXVII. **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
- XXXVIII. **A Neural Network Based Design Automation of a Second Generation Current Conveyor**  
KAHRAMAN N., YILDIRIM T.  
2014 International Conference on Computational Science and Computational Intelligence, 10 - 13 March 2014
- XXXIX. **Genel Amaçlı Konik Kesit Fonksiyonlu Sinir Ağı TümdevresiÜzerinde Obje Tanıma**  
ACAR VURAL R., KAHRAMAN N., ERKMEN B., YILDIRIM T.  
SIU 2008 2008 IEEE 16th Signal Processing, Communication and Applications Conference, Turkey, 20 - 22 April 2008
- XL. **Technology independent circuit sizing for fundamental analog circuits using artificial neural networks**  
KAHRAMAN N., YILDIRIM T.  
Ph.D. Research in Microelectronics and Electronics, 22 - 25 June 2008
- XLI. **Araçlarda Kendi Kendine Yol Bulma Sistemi**  
GÖKSU S., KAHRAMAN N., YILDIRIM T.  
EMO 2007, Turkey, 22 - 25 September 2007
- XLII. **Two Stage Comparator Design with Artificial Neural Networks**  
ODACIOĞLU E. C., KAHRAMAN N., YILDIRIM T.

INISTA 2007 International Symposium on Innovations in Intelligent Systems and Applications, İstanbul, Turkey, 20 - 23 June 2007

**XLIII. Konik Kesit Fonksiyonlu Sinir Ağları İle Görüntü Bölütleme**

KAHRAMAN N., YILDIRIM T.

IEEE 13th Signal Processing and Communications Applications Conference, 2005. SIU, Turkey, 16 - 18 May 2005

**XLIV. Yapay Sinir Ağları ile Sayısal Devrelerde Gecikme Kestirimi**

KAHRAMAN N., YILDIRIM T.

EMO 2005, Turkey, 22 - 25 September 2005

**XLV. Köprü Tipi Doğrultucularda Çıkış Geriliminin Genelleştirilmiş Regresyon Ağları İle Belirlenmesi**

KAHRAMAN N., YILDIRIM T., BİLGİÇ M. O.

Akıllı Sistemlerde Yenilikler ve Uygulamaları Sempozyumu 2004, Turkey, 23 - 25 June 2004

**XLVI. The effects of training algorithms in MLP network on image classification**

KAHRAMAN N., YILDIRIM T.

Proceedings of the International Joint Conference on Neural Networks, 2003., Portland, OR, USA, 20 - 24 July 2003

**XLVII. Image segmentation using statistical neural networks**

KAHRAMAN N., YILDIRIM T.

International Conference On Artificial Neural Networks / International Conference on Neural Information Processing (ICANN/ICONIP), İstanbul, Turkey, 26 - 29 June 2003, pp.1-5

**XLVIII. İmge Bölütlemeye Yapay Sinir Ağlarının Kullanımı**

KAHRAMAN N., YILDIRIM T.

11. Sinyal İşleme ve Uygulamaları (SIU) Kurultayı, Turkey, 18 - 20 June 2003

**XLIX. Yapay Sinir Ağları ile Hepatit Hastalığı Teşhisi**

KAHRAMAN N., YILDIRIM T.

Biyomedikal Mühendisliği Ulusal Toplantısı (BİYOMUT), Turkey, 29 - 30 May 2003

## Supported Projects

İŞILDAK B., AMASYALI M. F., USLU E., KAHRAMAN N., TAŞKIRAN M., DÜDÜKÇÜ H. V., ÇAM TAŞKIRAN Z. G., BOLAT B., YAVUZ S., ÇAKMAK F., Project Supported by Higher Education Institutions, Derin Pekıştirmeli Öğrenme Tabanlı Hibrit Füzle Güzüm Sistemlerinin Geliştirilmesi, 2024 - Continues

Kahraman N., Çam Taşkıran Z. G., Taşkıran M., Düzükçü H. V., Horizon Europe Project, Smart Building Sensitive to Daily Sentiment (SUSTAIN), 2022 - 2026

Kahraman N., TUBITAK Project, OTONOM ARAÇLARDA SENSÖRLER ARASI KALİBRASYONLARIN İYİLEŞTİRİLMESİ, 2024 - 2025

Çam Taşkıran Z. G., Düzükçü H. V., Taşkıran M., Kahraman N., Project Supported by Higher Education Institutions, Sensör Ağları için Uç Birimlerde Sensör Füzyonu ve Derin Öğrenme Yöntemleri ile Veri Analizi, 2023 - 2025

Kahraman N., Taşkıran M., Technopark, Yapay Zeka Tabanlı MT Değerlendirme Sistemi (CURES), 2024 - 2024

Kahraman N., Taşkıran M., Technopark, Dynamic File Encryptor, 2024 - 2024

Taşkıran M., Kahraman N., Technopark, Yüz Tanıma Sistemleri Araştırma ve Yazılım Geliştirme Projesi, 2023 - 2024

Düzükçü H. V., Taşkıran M., Kahraman N., A.Ş. M. T., TUBITAK Project, Cloud-Based Smart Mobile Test Automation Assistant Development, 2022 - 2024

Kahraman N., Taşkıran M., Technopark, MTHelper, 2022 - 2024

Karaçor K., Taşkıran M., Kahraman N., TUBITAK Project, Artificial Intelligence and Image Processing Based Model Development for Automatic Detection of Identity Information, 2022 - 2023

Taşcı S. E., Kahraman N., Taşkıran M., TUBITAK Project, Liveliness Detection in Facial Recognition Systems, 2022 - 2023

İnsan A., Kahraman N., Çam Taşkıran Z. G., Taşkıran M., Çimen S., TUBITAK Project, Fatih Science and Technology Festival, 2022 - 2023

Kahraman N., Taşkıran M., Technopark, Deep Learning Applications in Biometric Identification Based Security Systems, 2022 - 2023

Düzükçü H. V., Taşkıran M., Kahraman N., Project Supported by Higher Education Institutions, Flight Anomaly Detection



in Unmanned Aerial Vehicles with Hybrid Deep Learning Method, 2021 - 2023

AYTEN U. E., Hancılar Ü., KAHRAMAN N., Project Supported by Higher Education Institutions, Nefes Takip Sistemi Tasarımı ve Giyilebilir Sisteme Entegrasyonu, 2021 - 2023

Kahraman N., Taşkıran M., Technopark, Mobile app testing software on iOS and Android mobile devices, 2022 - 2022

Taşkıran M., Kahraman N., Technopark, Research and Software Development for Liveness Analysis, 2021 - 2022

Kahraman N., Taşkıran M., Dündükçü H. V., Technopark, SECURITY EVENT LOGS ANOMALY ANALYSIS MODULE, 2021 - 2021

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

Eroğlu Erdem Ç., Kahraman N., TUBITAK Project, "Soft Biometric Data Extraction from Multimodal Natural Facial Expression Videos, 2017 - 2020

Kahraman N., Industrial Thesis Project, Inverter air conditioner intelligent system design, 2015 - 2017

Kıyan T., Bolat B., Ayten U. E., Kahraman N., Project Supported by Higher Education Institutions, Beyin-Bilgisayar Arayüzü ile P300 Tabanlı Karar Sistemi Geliştirilmesi, 2014 - 2017

Yıldırım T., Kahraman N., Ayten U. E., Bolat B., Erkmen B., Acar Vural R., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Siber Güvenlik ve Biyometrik Araştırmalar Danışmanlık ve Test Merkezi Kurulumu, 2014 - 2016

Kahraman N., Sinirlioğlu S., TUBITAK Project, Ev Tipi Tek Gözlü Endüksiyon Ocaklarında Tencere Sıcaklığının Algılanması İçin Güç Kontrolünün Yapılması ve Yöntemlerin Araştırılması, 2014 - 2015

Kahraman N., Ünal S. H., TUBITAK Project, İnsansız Hava Araçları İçin Görüntü İşleme Teknikleri ile Akıllı Takip Sistemi, 2014 - 2014

Kahraman N., Tevetoğlu H. O., TUBITAK Project, Ev Tipi Klimalara Entegre Edilebilecek Kameralar için Bilgisayar Tabanlı İnsan Varlığı Ve Hareket Durumunun Algılanması, 2014 - 2014

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

Yıldırım T., Kahraman N., Erkmen 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

Yıldırım T., Erkmen B., Kahraman N., Acar Vural R., Avcı M., TUBITAK Project, Implementation of a General Purpose Artificial Neural Network with Mixed Hardware, 2005 - 2008

## Scientific Refereeing

TSP Konferansı, SCI Journal, Continues

CIRCUITS SYSTEMS AND SIGNAL PROCESSING, SCI Journal, January 2021

Devreler Sistemler ve İşaret İşleme, SCI Journal, August 2014

International Journal Of Electronics, SCI Journal, July 2012

ELECO, SCI Journal, September 2010

TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES, SCI Journal, July 2010

INISTA, SCI Journal, January 2007

ASYU, National Scientific Refreed Journal, January 2006

## Mobility Activity

Erasmus Programme, Lecturing, Fontys Hogeschoolen, Netherlands, 2012 - 2012

## Metrics

Publication: 77

Citation (WoS): 131

Citation (Scopus): 367

H-Index (WoS): 6

H-Index (Scopus): 8

## **Congress and Symposium Activities**

The 13th International Nano 4.0 Convergence Technology Symposium, Invited Speaker, Gyeongsang, South Korea, 2021

## **Awards**

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

## **Non Academic Experience**

Fontys University of Applied Sciences