

## Asst. Prof. MEHMET ERLER

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAP-4281-2021

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### Education Information

Doctorate, Erciyes University, Fen Bilimleri Enstitüsü, Elektronik, Turkey 1991 - 1999

Postgraduate, Erciyes University, Fen Bilimleri Enstitüsü, Elektronik, Turkey 1989 - 1991

Undergraduate, Erciyes University, Elektrik- Elektronik Mühendisliği, Elektronik, Turkey 1984 - 1988

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Dikdörtgen Mikroşerit Antenlerin Yapay Sinir Ağları ile Analizi ve Tasarımı, Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, Elektronik, 1999

Postgraduate, Yapay Sinir Ağlarında Hebbian ve Delta Öğrenme Kuralı, Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, Elektronik, 1991

### Research Areas

Computer Sciences, Artificial Intelligence, Computer Learning and Pattern Recognition, Neural Networks, Electrical and Electronics Engineering, Electronic, Electronic Circuits, Aeronautical and Space Engineering, Engineering and Technology

### Academic Titles / Tasks

Assistant Professor, Erciyes University, Sivil Havacılık Yüksekokulu, Uçak Elektrik-Elektronik, 2018 - Continues

Assistant Professor, Erciyes University, Sivil Havacılık Yüksekokulu, Uçak Elektrik-Elektronik, 2010 - 2018

## Academic and Administrative Experience

Erciyes University, 2019 - Continues

Erciyes University, 2003 - 2005

Erciyes University, 2003 - 2005

Erciyes Üniversitesi, Uçak Elektrik-Elektronik, 2003 - 2004

Erciyes Üniversitesi, Uçak Elektrik-Elktronik, 2003 - 2004

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

- I. **Design of rectangular microstrip antennas with the use of artificial neural networks**  
Güney K., SAĞIROĞLU Ş., ERLER M.  
Neural Network World, vol.12, no.4, pp.361-370, 2002 (SCI-Expanded)
- II. **Generalized neural method to determine resonant frequencies of various microstrip antennas**  
Güney K., Sagioglu S., Erler M.  
INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER-AIDED ENGINEERING, vol.12, no.1, pp.131-139, 2002 (SCI-Expanded)
- III. **Principal component analysis for control chart pattern recognition using artificial neural networks**  
SAĞIROĞLU Ş., BEŞDOK E., ERLER M.  
Neural Network World, vol.11, no.4, pp.337-347, 2001 (SCI-Expanded)
- IV. **Comparison of neural networks for resonant frequency computation of electrically thin and thick rectangular microstrip antennas**  
Güney K., Sagioglu S., Erler M.  
JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, vol.15, no.8, pp.1121-1145, 2001 (SCI-Expanded)
- V. **Control chart pattern recognition using artificial neural networks**  
SAĞIROĞLU Ş., BEŞDOK E., ERLER M.  
Turkish Journal of Electrical Engineering and Computer Sciences, vol.8, no.2, pp.137-147, 2000 (SCI-Expanded)
- VI. **Artificial neural networks for the resonant resistance calculation of electrically thin and thick rectangular microstrip antennas**  
Güney K., Erler M., Sagioglu S.  
ELECTROMAGNETICS, vol.20, no.5, pp.387-400, 2000 (SCI-Expanded)
- VII. **Calculation of bandwidth for electrically thin and thick rectangular microstrip antennas with the use of multilayered perceptrons**  
Sagioglu S., Güney K., Erler M.  
INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER-AIDED ENGINEERING, vol.9, no.3, pp.277-286, 1999 (SCI-Expanded)
- VIII. **Neural computation of resonant frequency of electrically thin and thick rectangular microstrip antennas**  
Karaboga D., Güney K., Sagioglu S., Erler M.  
IEE PROCEEDINGS-MICROWAVES ANTENNAS AND PROPAGATION, vol.146, no.2, pp.155-159, 1999 (SCI-Expanded)
- IX. **Neural computing of the bandwidth of resonant rectangular microstrip antennas**  
SAĞIROĞLU Ş., Güney K., ERLER M.  
Mathematical and Computational Applications, vol.3, no.1, pp.37-47, 1998 (SCI-Expanded)
- X. **Resonant frequency calculation for circular microstrip antennas using artificial neural networks**  
Sagioglu S., Güney K., Erler M.  
INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER-AIDED ENGINEERING, vol.8, no.3, pp.270-277, 1998 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Computation of Radiation Efficiency for a Resonant Rectangular Microstrip Patch Antenna Using Backpropagation Multilayered Perceptrons**  
ERLER M., Guney K., Sagiroglu S.  
Journal of Electrical and Electronic Engineering, vol.3, no.1, pp.663-671, 2003 (Peer-Reviewed Journal)
- II. **Design Of Rectangular Microstrip Antennas With Use Of Artificial Neural Networks**  
ERLER M., Guney K., Sagiroglu S.  
Neural Network World, International Journal on Neural and Mass-Parallel Computing and Information, vol.4, no.1, pp.361-370, 2002 (Peer-Reviewed Journal)
- III. **Nörokontrolörler**  
ERLER M., Sagiroglu S.  
Erciyes Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.17, pp.61-71, 2001 (Peer-Reviewed Journal)
- IV. **Yapay Sinir Ağları ile Görüntü Kodlama**  
ERLER M., BEŞDOK E., Sagiroglu S.  
İĞDIR ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, vol.14, pp.0-1234, 2001 (Peer-Reviewed Journal)
- V. **Neurodesign of Log-Periodic Dipole Arrays**  
ERLER M., Guney K., Sagiroglu S.  
Osman Gazi Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, vol.11, no.2, pp.18-34, 1999 (Peer-Reviewed Journal)
- VI. **Calculation of the directivity for the E-plane and H-plane sectored horn antennas with the use of artificial neural Networks**  
Sagiroglu S., Guney K., ERLER M.  
Erciyes Üniversitesi Fen Bilimleri Dergisi, vol.15, pp.32-48, 1999 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Mühendislikte Yapay Zeka Uygulamaları-I: Yapay Sinir Ağları**  
Erler M., Beşdok E., Sagiroglu S.  
Ufuk Kitabevi, Kayseri, 2003

## Refereed Congress / Symposium Publications in Proceedings

- I. **Yankısız Oda ve EM Problemlerinde Kullanımı**  
ERLER M., EKİCİ M.  
Kayseri 7. Havacılık Sempozyumu, Kayseri, Turkey, 15 - 16 May 2008, pp.286-290
- II. **Kanat Profili Etrafındaki Basınç Dağılımının Elde Edilmesinde Yapay Sinir Ağlarının Kullanımı**  
ERLER M., DEMİRTAŞ H.  
Kayseri 7. Havacılık Sempozyumu, Kayseri, Turkey, 15 - 16 May 2008, pp.170-173
- III. **Bir kanat profilinde değişik Reynold sayıları için uygun hücum açısının Yapay Sinir Ağları ile Belirlenmesi**  
ERLER M., DEMİRTAŞ H., SOYLAK M.  
Kayseri 6. Havacılık Sempozyumu, Nevşehir, Turkey, 12 - 14 May 2006, pp.601-607
- IV. **Pervane Karakteristiklerinin Yapay Sinir Ağları ile Belirlenmesi**  
ERLER M., DEMİRTAŞ H.  
Kayseri 6. Havacılık Sempozyumu, Nevşehir, Turkey, 12 - 14 May 2006, pp.589-595
- V. **Pervane Çekme Kuvvetinin Yapay Sinir Ağları Kullanılarak Bulunması**  
ERLER M., DEMİRTAŞ H.  
Kayseri 5. Havacılık Sempozyumu, Kayseri, Turkey, 13 - 14 May 2004, pp.54-61
- VI. **Uçaklarda Kablosuz İletişimin Arınc Veri İletişimi Yerine Kullanılması**  
ERLER M., AKSU Ö.

Kayseri 5. Havacılık Sempozyumu, Kayseri, Turkey, 13 - 14 May 2004, pp.185-187

- VII. **Computation Of Gain For Pyramidal Horn With The Use Of Multilayered Perceptrons**  
ERLER M., Guney K., Sagioglu S.  
The Turkish Symposium On Artificial Intelligence And Neural Networks, İzmir, Turkey, 21 - 23 June 2000, pp.315-322
- VIII. **Artificial Neural Networks for the Characteristic Impedance Calculation of Conductor-Backed Coplanar Waveguides**  
Guney K., ERLER M., Sagioglu S.  
International Conference on Electrical and Electronics Engineering, Bursa, Turkey, 1 - 05 December 1999, pp.224-228
- IX. **'Neural Prediction of the Daily Temperature**  
Sagioglu S., ERLER M., BABAYİĞİT B., GÜNEY K.  
2nd. Int. Symp. on Mathematical & Computational Applications, Baku, Azerbaijan, 1 - 03 September 1999, vol.1, pp.256-262
- X. **Neurocomputation of the physical properties of rectangular microstrip antennas with thin and thick substrates**  
ERLER M., Guney K., Sagioglu S.  
The Turkish Symposium On Artificial Intelligence And Neural Networks, İstanbul, Turkey, 23 - 25 June 1999, vol.1, pp.178-186
- XI. **Yapay Sinir Ağları ile Dikdörtgen Mikroserit Antenlerin Rezonans Direncinin Hesaplanması**  
Guney K., Sagioglu S., ERLER M.  
5. Bursa Bilgisayar ve Haberleşme Sempozyumu, Bursa, Turkey, 18 - 22 November 1998, pp.212-220
- XII. **Calculation of resonant frequency of circular Microstrip Antennas with a dielectric layer using artificial neural Networks**  
ERLER M., Guney K., Sagioglu S.  
2nd International Symposium On Intelligent Manufacturing Systems, Sakarya, Turkey, 6 - 07 August 1998, vol.1, no.1, pp.363-374
- XIII. **Neural Computing of The Radiation Patterns of Electrically Thin and Thick Rectangular Microstrip Antennas**  
ERLER M., Guney K., Sagioglu S.  
The Seventh Turkish Symposium On Artificial Intelligence And Neural Networks, Ankara, Turkey, 24 - 26 June 1998, vol.1, no.1, pp.271-272
- XIV. **Neural design of rectangular microstrip antennas**  
Guney K., ERLER M., Sagioglu S.  
Kayseri II. Havacılık Sempozyumu, Kayseri, Turkey, 11 - 15 May 1998, pp.209-218
- XV. **Yapay Sinir Ağlarıyla Dairesel Mikroserit Anten Tasarımı**  
Guney K., ERLER M., Sagioglu S.  
Çukurova Üniversitesi 10. Yıl Sempozyumu, Adana, Turkey, 18 - 20 February 1998, pp.78-83
- XVI. **Neural Network Calculation of Radiation Resistance of a Rectangular Microstrip Antenna**  
ERLER M., Guney K., Sagioglu S.  
The Sixth Turkish Symposium On Artificial Intelligence And Neural Networks, Ankara, Turkey, 31 - 23 May 1997, vol.1, no.1, pp.211-215

## Supported Projects

ERLER M., ONAY M., YILDIRIM DALKIRAN F., SARIKAYA BAŞTÜRK N., EKİCİ M., YAPICI A. Ç., Project Supported by Higher Education Institutions, HAVA ARAÇLARINDA KULLANILAN RF SİSTEMLERİN EMI TESTLERİNİN GERÇEKLEŞTİRİLMESİ, 2006 - 2008

GÜNEY K., SOYLAK M., DEMİRTAŞ H., BUZ Z., ERLER M., AKSU Ö., Project Supported by Higher Education Institutions, UÇUŞ SİMİLATÖRÜ TASARIMI VE UYGULAMASI, 2004 - 2007

ERLER M., AKSU Ö., Project Supported by Higher Education Institutions, AKÜSEL SİSTEMLER İÇİN ANALİZ YAPABİLEN AKILLI ŞARJ SİSTEMİ TASARIMI VE UYGULAMASI, 2004 - 2005

## **Metrics**

Publication: 35

Citation (WoS): 261

Citation (Scopus): 329

H-Index (WoS): 6

H-Index (Scopus): 7