

Res. Asst. MEMDUH SUVEREN

Personal Information

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Education Information

Doctorate, Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, Mekatronik Mühendisliği, Turkey 2015 - Continues

Post Graduate, Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, Mekatronik Mühendisliği, Turkey 2012 - 2015

Under Graduate, Erciyes Üniversitesi, Mühendislik Fakültesi, Elektrik- Elektronik Mühendisliği, Turkey 2007 - 2011

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Post Graduate, Ultra Geniş Bant (UGB) Kablosuz Sistemlerin Vücut İçi Ortamlarda Kullanımı Ve Mesafe Ölçüm Hatalarının Modellenmesi, Erciyes Üniversitesi, Mühendislik Fakültesi, Mekatronik Mühendisliği, 2015

Research Areas

Geotechnical Engineering, Remote sensing, Lidar, Information Systems, Communication and Control Engineering, Control and System Engineering, Control Systems and Instrumentation, Biomedical Engineering, Bioengineering and MEMS, Bioinstrumentation and Microelectromechanical Systems (MEMS), Electrical and Electronics Engineering, Electronic, Electronic Circuits, Electromagnetic, Electric and Magnetic Fields, Engineering and Technology

Academic Titles / Tasks

Research Assistant, Erciyes Üniversitesi, Mühendislik Fakültesi, Mekatronik Mühendisliği, 2011 - Continues

Professional Experience

Courses

Elektronik Sistemler Laboratuvarı, Under Graduate, 2012 - 2013

Mekatronik Laboratuvarı, Under Graduate, 2012 - 2013

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

- **A new propagation modeling technique for ultra-wideband implant body area networks based on a neural network architecture**
KANAAN M., SUVEREN M.
NEURAL COMPUTING & APPLICATIONS, vol.28, pp.3603-3615, 2017 (Journal Indexed in SCI)
- **In-Body Ranging with Ultra-Wideband Signals: Techniques and Modeling of the Ranging Error**
KANAAN M., SUVEREN M.
WIRELESS COMMUNICATIONS & MOBILE COMPUTING, 2017 (Journal Indexed in SCI)
- **A novel frequency-dependent path loss model for ultra wideband implant body area networks**
KANAAN M., SUVEREN M.
MEASUREMENT, vol.68, pp.117-127, 2015 (Journal Indexed in SCI)

Articles Published in Other Journals

- **IN-BODY RANGING FOR ULTRA-WIDE BAND WIRELESS CAPSULE ENDOSCOPY USING NEURAL NETWORKS BASED ON PARTICLE SWARM OPTIMIZATION**
KANAAN M., AKAY R., SUVEREN M.
Selçuk Üniversitesi Mühendislik Bilim ve Teknoloji Dergisi, vol.6, pp.207-217, 2018 (National Refreed University Journal)

Refereed Congress / Symposium Publications in Proceedings

- **5D Magnetic Localization for Wireless Capsule Endoscopy Using the Levenberg-Marquardt Method and Artificial Bee Colony Algorithm**
Suveren M., Kanaan M.
2019 IEEE 30th International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC Workshops), İstanbul, Turkey, 08 September 2019
- **On the Use of Human Body Models in Wireless Capsule Endoscopy Localization based on Ultra Wide Band Signaling**
SUVEREN M., KANAAN M.
5th International Conference on Engineering and Natural Sciences (ICENS), Prague, Czech Republic, 12 - 16 June 2019, pp.555-560
- **Gear Fault Modelling by Using Acoustic Measurements and Artificial Neural Networks**
Ulus Ş., Suveren M.
5th. International Conference on Engineering and Natural Sciences (ICENS 2019), Praha, Czech Republic, 12 - 16 June 2019, pp.318-324
- **"Ultra Geniş Bant Kablosuz Endoskopi Kapsüllerinin Vücut İçi Lokalizasyonu için Yapay Sinir Ağları ile Mesafe Ölçümü",**
KANAAN M., SUVEREN M.
IEEE Sinyal İşleme ve İletişim Uygulamaları-2016 (SIU-2016) Kurultayı, Zonguldak, Turkey, 16 - 19 May 2016, pp.1-4
- **A Vibration Based Fault Model of Gear Systems Using Neural Predictor**
ULUS Ş., SUVEREN M., ERKAYA S.
International Conference on Advances in Mechanical Engineering ICAME 2016, İstanbul, Turkey, 10 - 13 May 2016, pp.426-431
- **In-Body Ranging for Ultra-Wide Band Wireless Capsule Endoscopy Using A Neural Network Architecture**
KANAAN M., SUVEREN M.
10th International Symposium on Medical Information and Communication Technology (ISMICT), Massachusetts, United States Of America, 20 - 23 March 2016

● **“Ultra Geniş Bant İmplant Kablosuz Vücut Alan Ağlarında Gölgeleme Etkilerinin İncelenmesi”**

KANAAN M., SUVEREN M., KOÇER C.

IEEE Sinyal İşleme ve İletişim Uygulamaları Sempozyumu, 2014 (SİU-2014), Trabzon, Turkey, 21 - 23 April 2014, pp.1-4

● **On the relationship between antenna parameters and near-field effects for UWB implant body area networks**

KANAAN M., Kocer C., SUVEREN M.

8th International Symposium on Medical Information and Communication Technology, ISMICT 2014, Florence, Italy, 2 - 04 April 2014

● **On The Bandwidth Dependency of Near-Field Effects in UWB Implant Body Area Networks**

KANAAN M., SUVEREN M., SARAÇOĞLU Ö. G.

UWBAN-2013, Boston, United States Of America, 30 September - 02 October 2013, pp.553-557

Supported Projects

KANAAN M., SUVEREN M., Project Supported by Higher Education Institutions, Ultra geniş bant (UGB) kablosuz sistemlerin vücut içi ortamlarda kullanımı ve mesafe ölçüm hatalarının modellenmesi, 2014 - 2015

KANAAN M., SUVEREN M., Project Supported by Higher Education Institutions, Tıbbi İmplant Haberleşme Sistemleri İçin Ultra Geniş Bant Sinyal Propagasyonunun Modellenmesi, 2012 - 2014

Citations

Total Citations (WOS):12

h-index (WOS):2

Scholarships

2211-A Yurtiçi Doktora Bursu, TÜBİTAK, 2015 - Continues

2210-C Öncelikli Alanlara Yönelik Yüksek Lisans Bursu, TÜBİTAK, 2013 - 2015

Awards

SUVEREN M., 2010-2011 Mühendislik Fakültesi Fakülte Birinciliği, Erciyes Üniversitesi Mühendislik Fakültesi Dekanlığı, June 2011

SUVEREN M., 2010-2011 Elektrik-Elektronik Mühendisliği Bölüm Birinciliği, Erciyes Üniversitesi Mühendislik Fakültesi Dekanlığı, June 2011