

Prof. KEMAL FİDANBOYLU

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: K-8456-2019

ScopusID: 6602724750

Yoksis Researcher ID: 15837

Education Information

Doctorate, Virginia Polytechnic Institute and State University, Faculty of Engineering, Electrical and Computer Engineering, United States Of America 1987 - 1991

Postgraduate, King Fahad University of Petroleum and Minerals, Faculty of Engineering, Electrical Engineering, Saudi Arabia 1985 - 1987

Undergraduate, King Fahad University of Petroleum and Minerals, Faculty of Engineering, Electrical Engineering, Saudi Arabia 1980 - 1985

Undergraduate Double Major, King Fahad University of Petroleum and Minerals, Faculty of Sciences, Mathematical Sciences, Saudi Arabia 1980 - 1985

Foreign Languages

English, C2 Mastery

Arabic, B1 Intermediate

Dissertations

Doctorate, Time Domain Synthesis Applied to Modeling of Microwave Structures and Material Characterization, Virginia Polytechnic Institute and State University, Faculty of Engineering, Electrical Engineering, 1991

Postgraduate, A New Transformation and Design Technique for Switched Capacitor High Pass Ladder Filters, King Fahad University of Petroleum and Minerals, Faculty of Engineering, Electrical Engineering, 1987

Research Areas

Computer Sciences, Engineering and Technology

Academic Titles / Tasks

Professor, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, BİLGİSAYAR MÜHENDİSLİĞİ, 2020 - Continues

Professor, Islamic University of Medinah, Faculty of Engineering, Electrical Engineering Department, 2013 - 2017
Professor, Fatih University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, 2002 - 2013
Associate Professor, Fatih University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, 2000 - 2002
Associate Professor, Drexel University, Faculty of Engineering, Electrical and Computer Engineering, 1997 - 2000
Associate Professor, Marmara University, Faculty Of Engineering, Electrical And Electronics Engineering, 1995 - 2000
Assistant Professor, Marmara University, Faculty Of Engineering, Computer Engineering, 1992 - 1994
Lecturer PhD, Virginia Polytechnic Institute and State University, Faculty of Engineering, Electrical and Computer Engineering Department, 1991 - 1992
Research Assistant, Virginia Polytechnic Institute and State University, Faculty of Engineering, Electrical and Computer Engineering Department, 1987 - 1991
Research Assistant, King Fahad University of Petroleum and Minerals, Faculty of Engineering, Electrical Engineering Department, 1985 - 1987

Courses

ELECTRONIC CIRCUITS AND DEVICES, Undergraduate, 2023 - 2024, 2022 - 2023
Thesis Advisory IV, Postgraduate, 2023 - 2024, 2021 - 2022, 2020 - 2021
CAREER PLANNING, Undergraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022
LOGIC CIRCUITS, Undergraduate, 2024 - 2025, 2023 - 2024, 2021 - 2022, 2020 - 2021
Thesis Advisory I, Postgraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021
Seminar, Postgraduate, 2023 - 2024, 2022 - 2023, 2020 - 2021, 2019 - 2020
Thesis Advisory II, Postgraduate, 2023 - 2024, 2022 - 2023, 2020 - 2021, 2019 - 2020
Thesis Advisory III, Postgraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022
DESIGN COURSE, Undergraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021
SIGNALS AND SYSTEMS, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2019 - 2020
GRADUATION PROJECT, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020
Multi-sensor Data Fusion, Postgraduate, 2023 - 2024
Master's Degree Specialization Course IV, Postgraduate, 2023 - 2024, 2021 - 2022, 2020 - 2021
Yüksek Lisans Uzmanlık Alan Dersi II, Postgraduate, 2023 - 2024, 2022 - 2023, 2020 - 2021, 2019 - 2020
Master's Degree Specialization Course III, Postgraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022
Master's Degree Specialization Course I, Postgraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021
RANDOM PROCESSES IN ENGINEERING, Postgraduate, 2024 - 2025, 2023 - 2024, 2020 - 2021
ADVANCED SPEECH PROCESSING, Doctorate, 2022 - 2023
PRESENTATION TECHNIQUES, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020
MATHEMATICAL FOUNDATIONS OF ARTIFICIAL INTELLIGENCE, Doctorate, 2022 - 2023
ELECTRONIC CIRCUITS AND DEVICES, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021
PROJECT MANAGEMENT IN ENGINEERING, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020
DIGITAL SIGNAL PROCESSING, Undergraduate, 2021 - 2022, 2020 - 2021

Advising Theses

Fidanboyu K., FÜZYON TABANLI HİBRİT SİS KALDIRMA, Postgraduate, B.ARABALI(Student), 2023
Fidanboyu K., Design of hetero-core fiber optic sensors for liquid level detection in fuel tanks, Postgraduate, T.ÇOBAN(Student), 2015
Fidanboyu K., Toker O., Design of MPD based fiber optic pressure sensors using polar format statistical image processing, Postgraduate, M.BURAK(Student), 2015
Fidanboyu K., Design of optical sensors embedded into technical textiles for healthcare applications, Postgraduate, K.ALEMDAR(Student), 2014

Fidanboylu K., Design of hetero-core fiber optic sensors for home security applications, Postgraduate, S.LİKOĞLU(Student), 2014

Fidanboylu K., Performance analysis of different detection techniques used in optical orthogonal frequency division multiplexing transmission systems, Postgraduate, B.YALÇIN(Student), 2013

Fidanboylu K., Comparison of different design scenarios used in coherent optical orthogonal frequency division multiplexing transmission systems, Postgraduate, A.BAHADIR(Student), 2013

Fidanboylu K., Development of hetero-core fiber optic sensors for health monitoring of smart structures, Postgraduate, A.KEMAL(Student), 2010

Fidanboylu K., Development of a fiber optic sensor system using microbending technique for smart structures, Postgraduate, M.ENİS(Student), 2008

Fidanboylu K., Development of a fiber optic sensor system and image processing techniques for health monitoring of smart structures, Postgraduate, H.SEÇKİN(Student), 2008

Fidanboylu K., Modeling and analysis of multi-tier cellular networks with different queuing schemes, Postgraduate, N.EKİZ(Student), 2006

Fidanboylu K., Voltage and current mode multifunction filter design with current conveyors, Postgraduate, M.CAN(Student), 2006

Fidanboylu K., Multifunction filter design using current conveyors, Postgraduate, M.SAĞBAŞ(Student), 2003

Fidanboylu K., Performance analysis and modeling of two-tier cellular networks with queuing handoff calls, Postgraduate, T.SALİH(Student), 2003

Fidanboylu K., Telefonlu cevap sistemi, Postgraduate, A.YAVUZ(Student), 1997

Fidanboylu K., Kalman süzgecinde geliştirilmiş hareketli pencereleme, Postgraduate, U.SEVGEN(Student), 1997

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **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)
- II. **Optimal design of MPD based fiber optic strain sensors and comparison of power-meter and CCD camera measurements**
Efendioglu H. S., Esen M. E., Toker O., Fidanboylu K.
OPTICAL FIBER TECHNOLOGY, vol.17, no.2, pp.91-97, 2011 (SCI-Expanded)
- III. **Stress measurement with fiber optical sensors using modal power distribution: A comparison of power-meter and CCD camera techniques**
Efendioglu H. S., Esen M. E., Toker O., Fidanboylu K.
OPTICS AND LASERS IN ENGINEERING, vol.48, no.4, pp.453-456, 2010 (SCI-Expanded)
- IV. **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)
- V. **Modeling and analysis of queuing handoff calls in single and two-tier cellular networks**
Salih T., Fidanboylu K.
COMPUTER COMMUNICATIONS, vol.29, no.17, pp.3580-3590, 2006 (SCI-Expanded)
- VI. **Electronically tunable current-mode second-order universal filter using minimum elements**
Sagbas M., Fidanboylu K.
Electronics Letters, vol.40, no.1, pp.2-4, 2004 (SCI-Expanded)
- VII. **A novel fiber optic system for measuring the dynamic structural behavior of parachutes**
El-Sherif M., Fidanboylu K., El-Sherif D., Gafsi R., Yuan J., Richards K., Lee C.
JOURNAL OF INTELLIGENT MATERIAL SYSTEMS AND STRUCTURES, vol.11, no.5, pp.351-359, 2000 (SCI-Expanded)
- VIII. **AN ENHANCED TIME-DOMAIN APPROACH FOR DIELECTRIC CHARACTERIZATION USING STRIPLINE GEOMETRY**

FIDANBOYLU K., RIAD S., ELSHABINIRIAD A.

IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, vol.41, no.1, pp.132-136, 1992 (SCI-Expanded)

IX. A NEW TIME-DOMAIN APPROACH FOR DETERMINING THE COMPLEX PERMITTIVITY USING STRIPLINE GEOMETRY

FIDANBOYLU K., RIAD S., ELSHABINIRIAD A.

IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, vol.39, no.6, pp.940-944, 1990 (SCI-Expanded)

X. A New Design of Switched Capacitor All Pole High-Pass Ladder Filters

PENBECI S., FİDANBOYLU K.

ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.14, no.4, pp.623-629, 1989 (SCI-Expanded)

XI. A new switched-capacitor high pass filter realization using the MLDD transformation

Penbeci S. S., Fidanboyly K.

International Journal of Electronics, vol.63, no.4, pp.499-508, 1987 (SCI-Expanded)

Articles Published in Other Journals

I. An Overview of Fog Removal Algorithms

Arabalı B., Fidanboyly K.

Veri Bilimi, vol.6, no.1, pp.46-60, 2023 (Peer-Reviewed Journal)

II. Fusion-Based Hybrid Fog Removal

Arabalı B., Fidanboyly K.

Veri Bilimi, vol.5, no.2, pp.64-70, 2022 (Peer-Reviewed Journal)

III. Fiber Optik Sensörlerin Helikopter Uçuş Test Enstrümantasyonunda Kullanımı

Hatipoğlu A., Günaydın A. C., Fidanboyly K.

Veri Bilimi Dergisi, vol.2, no.2, pp.25-33, 2019 (Peer-Reviewed Journal)

IV. Modeling of geometrical effects of thick film components on their microwave performance

Lu S., Hayes M., Fidanboyly K., Elshabini-Riad A.

Hybrid circuit technology, vol.7, no.2, pp.29-33, 1990 (Scopus)

Books & Book Chapters

I. Rotation Angle Estimation Algorithms for Textures and Their Implementations on Real Time Systems

ULAŞ C., TOKER O., FİDANBOYLU K.

in: Machine Vision - Applications and Systems, Fabio Solari, Editor, InTech Publishing, Londrina, pp.93-110, 2012

Refereed Congress / Symposium Publications in Proceedings

I. Anomaly Detection in Aircraft Using Sensor Fusion and Deep Learning Techniques

Çat Y., Fidanboyly K.

6th International Conference on Data Science and Applications (ICONDATA'24), Pristine, Kosovo, 2 - 06 September 2024, vol.1, no.1, pp.94-102

II. Application of Sensor Fusion Techniques for Object Detection, Lane Detection, Mapping and Positioning in Autonomous Vehicles

Duman E., Fidanboyly K.

6th International Conference on Data Science and Applications (ICONDATA'24), Pristine, Kosovo, 2 - 06 September 2024, vol.1, no.1, pp.16

III. Location and Speed Estimation Using GPS and INS Data and Sensor Fusion

Işık E., Fidanboylu K.

6th International Conference on Data Science and Applications (ICONDATA'24), Priştine, Kosovo, 2 September - 06 November 2024, vol.1, no.1, pp.10

- IV. **Image-Based Electrical Wire Detection and Warning System with Deep Learning Method**
Esen N., Başaran Ö. S., Fidanboylu K.
2nd International Eastern Conference on Human- Computer Interaction (IEHCI 2023), Erzurum, Turkey, 23 - 25 November 2023, vol.1, no.1, pp.56-61
- V. **An Overview of Fog Removal Algorithms**
Arabalı B., Fidanboylu K.
5th International Conference on Data Science and Applications (ICONDATA'22), September 7-11, 2022, Fethiye, TURKEY, Muğla, Turkey, 07 September 2022, vol.2, no.1, pp.55
- VI. **Fusion-Based Hybrid Fog Removal**
Arabalı B., Fidanboylu K.
5th International Conference on Data Science and Applications (ICONDATA'22), September 7-11, 2022, Fethiye, TURKEY, Muğla, Turkey, 07 September 2022, vol.2, no.1, pp.50
- VII. **Artırılmış Gerçeklik Kütüphanelerinin Karşılaştırılması**
Morkoç M. E., Karan E., Şireci A. E., Fidanboylu K.
4th International Conference on Data Science and Applications (ICONDATA'21), İstanbul, Turkey, 4 - 05 June 2021, pp.191-199
- VIII. **Artırılmış Gerçeklik Teknolojisinin Navigasyon Sistemlerinde Kullanımı**
Şireci A. E., Karan E., Morkoç M. E., Fidanboylu K.
4th International Conference on Data Science and Applications (ICONDATA'21), İstanbul, Turkey, 4 - 05 June 2021, pp.481-488
- IX. **E-ticaret Alanındaki Yapay Zekâ Çözümleri Üzerine Bir İnceleme**
Akgül B. A., Fidanboylu K.
4th International Conference on Data Science and Applications (ICONDATA'21), İstanbul, Turkey, 4 - 05 June 2021, pp.500-508
- X. **Indoor and Outdoor Navigation Application Development with Augmented Reality Technology**
Karan E., Morkoç M. E., Şireci A. E., Fidanboylu K.
5th International Conference on Computational Mathematics and Engineering Sciences, Van, Turkey, 8 - 10 June 2021, pp.211-220
- XI. **Verification of Patent Solution Proposed for Munition Release Systems Using TRIZ-Based Root Conflict Analysis (RCA+) Approach**
Hatipoğlu A., Subran M., Korkmaz F. F., Kaya M. O., Fidanboylu K.
8th International Symposium on Innovative Technologies in Engineering and Science, Bursa, Turkey, 22 October 2020, vol.3, pp.115-126
- XII. **Radarlarda Hava Aracı Konumunun Kalman Filtresi ile Kestirimi**
Şireci A. E., Demirhan S., Hatipoğlu A., Fidanboylu K.
3rd International Conference on Data Science and Applications (ICONDATA'20), June 25-28, 2020, İstanbul, TURKEY, İstanbul, Turkey, 25 - 28 June 2020
- XIII. **TRIZ Araçlarından Fonksiyonel Analiz ve Kök Çelişki Analizi Kullanarak Bir Mühendislik Probleminin Çözümü**
Subran M., Korkmaz F. F., Hatipoğlu A., Fidanboylu K.
4. Çukurova Uluslararası Bilimsel Araştırmalar Kongresi, Adana, Turkey, 21 - 23 February 2020, pp.239-253
- XIV. **Application of Fiber Optic Sensors for Helicopter Blade Deformation**
Hatipoğlu A., Günaydın A. C., Karaman İ., Fidanboylu K.
5th International Conference on Advances in Mechanical Engineering (ICAME2019), İstanbul, Turkey, 17 - 19 December 2019, pp.761-772
- XV. **TRIZ Yaklaşımı Kullanarak Hava Araçlarındaki Mühimmat Bırakma Sistemlerinde Yenilikçi Çözüm Üretilmesi**
Korkmaz F. F., Subran M., Hatipoğlu A., Kaya M. O., Fidanboylu K.

- 4th International Symposium on Innovative Approaches in Engineering and Natural Sciences (ISAS Winter 2019), Samsun, Turkey, 22 - 24 November 2019, pp.42-46
- XVI. **Dağınmık Fiber Optik Sensör Türleri ve Sistemleri**
Karaman İ., Hatipoğlu A., Günaydın A. C., Fidanboylu K.
Elektrik Elektronik Mühendisliği Kongresi (EEMKON 2019), İstanbul, Turkey, 14 - 16 November 2019, vol.16
- XVII. **Fiber Bragg Izgara Sensörlerinin Helikopter Uçuş Test Enstrümantasyonunda Kullanımı**
HATİPOĞLU A., GÜNAYDIN A. C., FİDANBOYLU K.
2nd International Conference on Data Science and Applications (ICONDATA2019), Balıkesir, Turkey, 3 - 06 October 2019
- XVIII. **Havacılık Sektöründe Fiber Optik Sensör Uygulamaları**
GÜNAYDIN A. C., HATİPOĞLU A., FİDANBOYLU K.
X. Ulusal Uçak, Havacılık ve Uzay Mühendisliği Kurultayı, Eskişehir, Turkey, 11 - 12 October 2019, pp.57-65
- XIX. **Polar Format Statistical Image Processing Based Fiber Optic Pressure Sensors**
ALVER M. B., TOKER O., FİDANBOYLU K.
SPIE Optics Photonics 2014, SAN DIEGO, CALIFORNIA, United States Of America, 17 - 21 August 2014, vol.9217, pp.921711-921717
- XX. **A Novel Microbending Hetero-Core Fiber Optic Sensor for Force and Location Sensing with Applications to Home Security**
LİKOĞLU S., ALEMDAR K., FİDANBOYLU K., TOKER O.
SPIE Smart Structures (NDE 2014), SAN DIEGO, CALIFORNIA, United States Of America, 9 - 13 March 2014, vol.9062, pp.906201-9062011
- XXI. **A Novel Periodic Macrobending Hetero-Core Fiber Optic Sensor Embedded in Textiles**
ALEMDAR K., LİKOĞLU S., FİDANBOYLU K., TOKER O.
8th International Conference on Electrical and Electronics Engineering (ELECO 2013), Bursa, Turkey, 28 - 30 November 2013, pp.467-471
- XXII. **Intelligent Fiber Optic Statistical Mode Sensors Using Novel Features and Artificial Neural Networks**
EFENDİOĞLU H. S., TOKER O., YILDIRIM T., FİDANBOYLU K.
SPIE Smart Structures (NDE 2013), 10 - 14 March 2013, vol.8693, pp.869301-869306
- XXIII. **A Novel Periodic Macrobending Hetero-core Fiber Optic Sensor Embedded in Textile for Respiratory Movements' Analysis**
ALEMDAR K., LİKOĞLU S., FİDANBOYLU K., TOKER O.
SPIE Smart Structures (NDE 2014), SAN DIEGO, CALIFORNIA, United States Of America, 9 - 13 March 2013, vol.9062, pp.906201-9062011
- XXIV. **Design of intelligent fiber optic statistical mode sensors using novel features and artificial neural networks**
Efendioglu H., YILDIRIM T., Toker O., Fidanboylu K.
International Symposium on INnovations in Intelligent SysTems and Applications, INISTA 2012, Trabzon, Turkey, 2 - 04 July 2012
- XXV. **Intensity Based Fiber Optic Sensor Design**
FİDANBOYLU K., EFENDİOĞLU H. S., YILDIRIM T., TOKER O.
1. Ulusal Fotonik Bilimi ve Sensör Teknolojileri Konferansı, GEBZE, KOCAELİ, Turkey, 25 September 2012
- XXVI. **Design of hetero-core smart fiber optic macrobend sensors**
Efendioglu H., Sahin A., YILDIRIM T., Fidanboylu K.
7th International Conference on Electrical and Electronics Engineering, ELECO 2011, Bursa, Turkey, 1 - 04 December 2011
- XXVII. **Design of a hetero-core smart fiber optic microbend sensor**
Efendioglu H., Sahin A., YILDIRIM T., Fidanboylu K.
2011 International Symposium on INnovations in Intelligent SysTems and Applications, INISTA 2011, Istanbul-Kadikoy, Turkey, 15 - 18 June 2011, pp.340-343
- XXVIII. **Design of hetero-core microbend stress sensors and comparative analysis of various hetero-core sensor architectures**

Sahin A. K., Efendioglu H. S., Fidanboyly K.

Conference on Smart Sensor Phenomena, Technology, Networks, and Systems, California, United States Of America, 7 - 09 March 2011, vol.7982

- XXIX. **Optimal Design of MPD based fiber optic strain sensors and comparison of power-meter and CCD camera based architectures**
Toker O., Efendioglu H. S., Esen M. E., Fidanboyly K.
Conference on Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems 2011, California, United States Of America, 7 - 10 March 2011, vol.7981
- XXX. **Use of artificial neural networks for prediction of output response of fiber optic microbend sensors**
Fiber optik mikro kivrim sensörlerinin çıkış cevabının tahmin edilmesi için yapay sinir ağlarının kullanılması
Efendioğlu H., YILDIRIM T., Fidanboyly K.
18th IEEE Signal Processing and Communications Applications Conference, SIU 2010, Diyarbakır, Turkey, 22 - 24 April 2010, pp.792-795
- XXXI. **Use of Artificial Neural Networks for Improving Fiber Optic Microbend Sensor Performance**
Efendioglu H. S., Yildirim T., Fidanboyly K.
World Congress on Computational Intelligence (WCCI 2010), Barcelona, Spain, 01 January 2010
- XXXII. **Detection of Cracks and Damages in Concrete and Historical Buildings Using Fiber Optic Sensors**
FİDANBOYLU K., EFENDİOĞLU H. S., TOKER O., ESEN M. E.
5th International Advanced Technologies Symposium (IATS'09), Karabük, Turkey, 13 - 15 May 2009, pp.176-181
- XXXIII. **Fiber Optic Sensors and Their Applications**
Fidanboyly K., Efendioglu H. S.
5th International Advanced Technologies Symposium (IATS'09), Karabük, Turkey, 13 - 15 May 2009, pp.1-6
- XXXIV. **Rotation Angle Estimation Algorithms for Textures and Their Real-Time Implementation on the FUSmartC**
ULAŞ C., DEMİR S., TOKER O., FİDANBOYLU K.
5th International Symposium on Image and Signal Processing and Analysis (ISPA 2007), İstanbul, Turkey, 27 - 29 September 2007, pp.469-475
- XXXV. **Rotation angle estimation algorithms for textures and their real-time implementation on the FU-SmartCam**
Ulas C., Demir S., Toker O., Fidanboyly K.
5th International Symposium on Image and Signal Processing and Analysis, İstanbul, Turkey, 27 - 29 September 2007, pp.469-475
- XXXVI. **Design and implementation of a bluetooth based infant monitoring/saver (BIMS) system**
Sonmez A. E., Nalcaci M. T., Pazarbasi M. A., Toker O., Fidanboyly K.
Conference on Health Monitoring of Structural and Biological Systems, California, United States Of America, 19 - 22 March 2007, vol.6532
- XXXVII. **A Transmission Line Modeling Technique Using Time Domain Synthesis**
FİDANBOYLU K., KORKMAZ N., KORKMAZ K.
2003 IEEE International Symposium on Electromagnetic Compatibility (EMC2003), İstanbul, Turkey, 11 - 16 May 2003, pp.331-334
- XXXVIII. **Performance analysis and Modeling of two-tier cellular networks with queuing handoff calls**
Salih T., Fidanboyly K.
8th IEEE International Symposium on Computers and Communication (ISCC 2003), Antalya, Turkey, 30 June - 03 July 2003, pp.143-148
- XXXIX. **A Kalman Filter Algorithm For Generalized Moving Windowing**
SEVGEN U., FİDANBOYLU K.
Second International Conference on Electrical and Electronics Engineering (ELECO2001), Bursa, Turkey, 7 - 11 November 2001, pp.158-162
- XL. **A novel fiber optic system for measuring the dynamic forces in textiles**
El-Sherif M., Fidanboyly K., El-Sherif D., Gafsi R., Lee C.

14th International Conference on Optical Fiber Sensors, Venice, Italy, 11 - 13 October 2000, vol.4185, pp.696-699

- XLII. Development of Smart FRP Bars with Embedded Fiber Optic Sensors**
ELSHERIF D., GAFSI R., ELSHERIF M., HARRIS H., FİDANBOYLU K., KO F.
The 1998 OSA Annual Meeting, BALTIMORE, MARYLAND, United States Of America, 4 - 09 October 1998
- XLIII. Development of Novel Sapphire Optical Fibers for Sensors Applications and IR Transmission**
ELSHERIF M., YUAN J., FİDANBOYLU K.
International Symposium on Advanced Laser and Optoelectronics, Beijing, China, 28 - 31 July 1998
- XLIII. AN OPTIMIZATION TECHNIQUE FOR TIME-DOMAIN APPLICATIONS**
FİDANBOYLU K.
7th Mediterranean Electrotechnical Conference (MeleCON 94), Antalya, Turkey, 12 - 14 April 1994, pp.735-738
- XLIV. A NOVEL TIME-DOMAIN SYNTHESIS TECHNIQUE**
FİDANBOYLU K., RIAD S., ELSHABINIRIAD A.
7th Mediterranean Electrotechnical Conference (MeleCON 94), Antalya, Turkey, 12 - 14 April 1994, pp.641-644
- XLV. An Enhanced Time Domain Synthesis Technique**
FİDANBOYLU K., RIAD S., RIAD A. E.
North American Radio Science Meeting, BOULDER, COLORADO, United States Of America, 6 - 11 January 1992, pp.224
- XLVI. Establishment of empirical models for low-loss dielectrics**
Fidanboyly K., Geramifar H., Besieris I., Riad S.
1992 Joint Symposia Digest: IEEE Antennas and Propagation Society International Symposium, AP-S 1992, Illinois, United States Of America, 18 - 25 June 1992, pp.2261
- XLVII. Time Domain Dielectric Characterization Using a Stripline Geometry**
FİDANBOYLU K., RIAD S., RIAD A. E.
North American Radio Science Meeting, London, Canada, 24 - 28 June 1991, pp.46
- XLVIII. An Automated Time Domain Synthesis Technique for Microwave Devices**
FİDANBOYLU K., RIAD S., RIAD A. E.
North American Radio Science Meeting, London, Canada, 24 - 28 June 1991, pp.9
- XLIX. An enhanced time domain approach for dielectric characterization using stripline geometry**
Fidanboyly K., Riad S., Elshabini-Riad A.
1991 IEEE Instrumentation and Measurement Technology Conference, Atlanta, GA, USA, 14 - 16 May 1991, pp.641-647
- L. ADVANCES IN MICROWAVE SUBSTRATE MATERIALS**
HAYES M., FİDANBOYLU K., ELSHABINIRIAD A., ELY K., BAHL I.
4TH ELECTRONIC MATERIALS AND PROCESSING CONGRESS : MATERIALS DEVELOPMENTS IN MICROELECTRONIC PACKAGING : PERFORMANCE AND RELIABILITY, Montreal, Canada, 01 January 1991, pp.37-40
- LI. WIDE-BAND AND MICROWAVE MATERIAL CHARACTERIZATION**
RIAD S., DAVIS W., ELSHABINIRIAD A., SAED M., AMEY D., CURILLA J., LYLES J., FİDANBOYLU K., BUCCA S., SU W., et al.
4TH ELECTRONIC MATERIALS AND PROCESSING CONGRESS : MATERIALS DEVELOPMENTS IN MICROELECTRONIC PACKAGING : PERFORMANCE AND RELIABILITY, Montreal, Canada, 01 January 1991, pp.123-126
- LII. Effect of measurement bandwidth on time domain device modeling**
Fidanboyly K., Bennis A., Riad S.
1990 Conference on Precision Electromagnetic Measurements, Ottawa, Canada, 11 - 14 June 1990, pp.226-227
- LIII. A NEW TIME DOMAIN APPROACH FOR DETERMINING THE DIELECTRIC-CONSTANT USING STRIPLINE GEOMETRY**
FİDANBOYLU K., RIAD S.
CONF ON INSTRUMENTATION AND MEASUREMENT TECHNOLOGY (IMTC 90), San-Jose, Costa Rica, 13 - 15 February 1990, pp.259-262
- LIV. Calibrated wideband measurement of packaged devices**

Fidanboyly K., Riad S. M.

3rd International SAMPE Electronics Conference: Electronic Materials and Processes, Los-Angeles, Chile, 20 - 22 June 1989, vol.3, pp.516-527

LV. Modeling of Geometrical Effects of Thick Film Components on Their Microwave Performance

LU S., MONTY H., FİDANBOYLU K., RIAD A. E.

Intl. Symp. Hybrid Microelectronics, Maryland, United States Of America, 24 - 26 October 1989, pp.385-389

LVI. Time Domain Modeling of Microwave Devices Using the Modified Transient Circuit Analysis Package

FİDANBOYLU K., RIAD S., RIAD A. E.

Intl. Symp. on Electromagnetic Metrology, Beijing, China, 19 - 22 August 1989, pp.72-76

LVII. Calibrated Wideband Measurement of Packaged Devices Using Transient Analysis Techniques

FİDANBOYLU K., RIAD S.

3rd Intl. SAMPE Electronics Conf., LOS ANGELES, CALIFORNIA, United States Of America, 20 - 22 June 1989, pp.516-527

LVIII. A new approach to planar structure characterization using time domain techniques

Fidanboyly K., Muthukrishnan N., Riad S., Elshabini-Riad A.

31st ARFTG Conference Digest - Spring 1988, New York, United States Of America, 24 May 1988, pp.19-28

Supported Projects

Fidanboyly K., TÜBİTAK - AB COST Project, Şiddet Modülasyonuna Dayanan Yüksek Performanslı Fiber Optik Sensörlerin Hetero-Özlü (Hetero-Core)Optik Fiberler Kullanarak Geliştirilmesi Ve Yapay Zeka Teknikleri İle Akıllı Sensörler Tasarlanması, 2012 - 2014

Fidanboyly K., Project Supported by Other Official Institutions, Endüstriyel Otomasyon Teknolojisi Geliştirme ve Sanayi İşbirliği Oluşturma Yatırım Projesi, 2007 - 2009

Fidanboyly K., Project Supported by Other Official Institutions, Betonarme ve Tarihi Yapılardaki Yıpranmaların Fiber Optik Sensörlerle Tespiti, 2007 - 2008

El-Sherif M., Fidanboyly K., Other International Funding Programs, Fiber Optics and Photonics Manufacturing Engineering Center FOPMEC of Excellence, 1997 - 2001

El-Sherif M., Fidanboyly K., Other International Funding Programs, Optical Signal Trace and Analysis of the Key Instruments Flowmeter, 2000 - 2000

El-Sherif M., Fidanboyly K., Other International Funding Programs, Characterization of the Materials Structure of the Key Instruments Flow meter, 2000 - 2000

El-Sherif M., Fidanboyly K., Other International Funding Programs, Fiber Optic Sensors Coated with Magnetostrictive Materials, 1999 - 2000

El-Sherif M., Fidanboyly K., Other International Funding Programs, Development and Processing of Thomas Register Technical Information on the Internet, 1997 - 2000

El-Sherif M., Fidanboyly K., Other International Funding Programs, Optical Scanner Project Optical Ray Trace Analysis and Preliminary Lens Selection, 1999 - 1999

Fidanboyly K., El-Sherif M., Other International Funding Programs, Testing of a Fiber Optic Stress Sensor, 1999 - 1999

El-Sherif M., Fidanboyly K., Other International Funding Programs, A Novel Fiber Optic System for Measuring the Dynamic, 1999 - 1999

El-Sherif M., Fidanboyly K., Other International Funding Programs, Development of Fiber Optics Tank level Sensors for High Temperature Applications, 1998 - 1999

Fidanboyly K., El-Sherif M., Other International Funding Programs, Position and Displacement Sensors, 1998 - 1998

El-Sherif M., Fidanboyly K., Other International Funding Programs, Inspection and Probing System for Gas Cylinders, 1998 - 1998

Fidanboyly K., El-Sherif M., Other International Funding Programs, Magnetostrictive Position Sensor, 1998 - 1998

Sedki R., Fidanboyly K., Other International Funding Programs, Accuracy and Repeatability of Dielectric Characterization Techniques, 1991 - 1992

Riad S., Fidanboyly K., Other International Funding Programs, Development and Application of Microwave Time Domain

Environmental Chamber for Material Characterization, 1990 - 1991

Riad S., Fidanboylu K., Other International Funding Programs, Effect of Conductor Properties and Interface on Dielectric Characterization Techniques, 1989 - 1990

Riad S., Fidanboylu K., Other International Funding Programs, Microwave Techniques for Characterization of Materials and Planar Geometry Lines, 1988 - 1989

Riad S., Fidanboylu K., Other International Funding Programs, Wideband Characterization of Polymer Materials used in the Construction of Multilayer Electronic Circuits, 1987 - 1988

Student Project

Software Project, Deep Learning Based Face Recognition System, Bursa Uludağ University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Turkey, 2024 - 2024

R & D Project, Realization of Earthquake Simulation Using Virtual Reality Technologies, Bursa Uludağ University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Turkey, 2024 - 2024

Software Project, Real-Time Contactless Heart Rate Monitoring Using Webcam, Bursa Uludağ University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Turkey, 2024 - 2024

R & D Project, Model Rocket Flight Computer and Ground Station, Bursa Uludağ University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Turkey, 2023 - 2023

Software Project, Improving the Visual Quality of Images Obtained in Foggy Weather, Bursa Uludağ University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Turkey, 2023 - 2023

R & D Project, Heterogeneous Computing over Ethernet Protocol, Bursa Uludağ University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Turkey, 2023 - 2023

R & D Project, Real-time Non-Contact Heart Rate Monitoring Using Camera, Bursa Uludağ University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Turkey, 2023 - 2023

Software Project, Mapping the Environment in Two Dimensions with Camera Data for Autonomous Parking Operation and Training an Agent in This Environment with Deep Reinforcement Learning, Bursa Uludağ University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Turkey, 2023 - 2023

R & D Project, Detection of Roadside Lanes in Autonomous Vehicles Using Sensors and Sensor Fusion, Bursa Uludağ University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Turkey, 2023 - 2023

Software Project, Real-Time Wire Sensing System for Rotary Wing Aircraft, Bursa Uludağ University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Turkey, 2023 - 2023

Software Project, Real Time Plate Reading System, Bursa Uludağ University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Turkey, 2022 - 2023

Software Project, Real-time Non-Contact Heart Rate Monitoring Using Camera, Bursa Uludağ University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Turkey, 2022 - 2022

Software Project, Detection of Roadside Stripes Using Sensor and Sensor Fusion in Autonomous Vehicles, Bursa Uludağ University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Turkey, 2022 - 2022

Software Project, Real-Time Wire Sensing System for Rotary Wing Aircraft, Bursa Uludağ University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Turkey, 2022 - 2022

Software Project, Navigation Application Development with Augmented Reality Technologies, Bursa Uludağ University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Turkey, 2021 - 2021

Software Project, ARCAR, Bursa Uludağ University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Turkey, 2020 - 2021

Software Project, Mobile Polling With BEACON, Bursa Uludağ University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Turkey, 2020 - 2021

Social Project, Investigation of Problems That May Occur During a Possible Disaster in Large Populations Using Data Analysis and Chaos Engineering Principles, and Modeling with GIS, Bursa Uludağ University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Turkey, 2020 - 2020

Memberships / Tasks in Scientific Organizations

IEEE: Institute of Electrical and Electronics Engineers, Member, 1981 - Continues, United States Of America

Scientific Consultations

TUBİTAK, Project Consultancy, Bursa Uludağ University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Turkey, 2024 - Continues

Bursa Uludag University Technology Transfer Office, Scientific Consultancy, Bursa Uludağ University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Turkey, 2020 - Continues

Medipol University-External Stakeholder, Scientific Consultancy, Bursa Uludağ University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Turkey, 2020 - Continues

TUBİTAK, Project Consultancy, Bursa Uludağ University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Turkey, 2023 - 2024

2021 Teknofest Rocket Competition, Project Consultancy, Bursa Uludağ University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Turkey, 2021 - 2021

6th Model Satellite Competition, TURKSAT, Project Consultancy, Bursa Uludağ University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Turkey, 2021 - 2021

5th Model Satellite Competition, TURKSAT, Project Consultancy, Bursa Uludağ University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Turkey, 2020 - 2020

5th International Unmanned Aerial Vehicles Competition, TUBITAK, Project Consultancy, Bursa Uludağ University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Turkey, 2020 - 2020

Scientific Research / Working Group Memberships

Otomotiv Çalışma Grubu, Bursa Uludağ University, Turkey, <https://uludag.edu.tr/ocg>, 2020 - Continues

Metrics

Publication: 74

Citation (WoS): 156

Citation (Scopus): 232

H-Index (WoS): 7

H-Index (Scopus): 8

Congress and Symposium Activities

6th International Conference on Data Science and Applications (ICONDATA) 2024, Attendee, Prishtine, Kosovo, 2024

INTERNATIONAL EASTERN CONFERENCE ON HUMAN-COMPUTER INTERACTION (IECHCI2023), Attendee, Erzurum, Turkey, 2023

5th International Conference on Data Science and Applications (ICONDATA) 2022, Attendee, Muğla, Turkey, 2022

4th International Conference on Data Science and Applications (ICONDATA) 2021, Attendee, İstanbul, Turkey, 2021

The Fifth International Conference on Computational Mathematics and Engineering Sciences (CMES-2021), Attendee, Van, Turkey, 2021

REMOTE: The Connected Faculty Summit, Attendee, Arizona, United States Of America, 2020

Scholarships

Graduate Education Scholarship, University, 1985 - 1987

Undergraduate Education Scholarship, University, 1980 - 1985

Awards

Fidanboylu K., 2224-B Domestic Scientific Events Participation Support Program, Tübitak, May 2021

Fidanboylu K., Special Dean's Award, Marmara Üniversitesi Mühendislik Fakültesi Dekanlığı, June 1997

Fidanboylu K., Outstanding Achievement Award, Marmara Üniversitesi Rektörlüğü, January 1994

Fidanboylu K., Operations Achievement Award, At&T International, Riyadh, Saudi Arabia, August 1984

Fidanboylu K., Appreciation and Achievement Award, Student Union, University Of Petroleum And Minerals, Dhahran, Saudi Arabia, July 1983

Fidanboylu K., Appreciation and Honor Award, Preparatory Year Program, University Of Petroleum And Minerals, Dhahran, Saudi Arabia, January 1981

Non Academic Experience

Company, Turkish Aerospace Inc., TUSAŞ-Uludağ University R&D Center Bursa Branch

Company, Turkish Aerospace Inc., TUSAŞ-Teknopark Istanbul Branch