

## 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  
SIGNALS AND SYSTEMS, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2019 - 2020  
Multi-sensor Data Fusion, Postgraduate, 2023 - 2024  
ADVANCED SPEECH PROCESSING, Doctorate, 2022 - 2023  
CAREER PLANNING, Undergraduate, 2022 - 2023, 2021 - 2022  
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  
LOGIC CIRCUITS, Undergraduate, 2021 - 2022, 2020 - 2021  
DIGITAL SIGNAL PROCESSING, Undergraduate, 2021 - 2022, 2020 - 2021  
RANDOM PROCESSES IN ENGINEERING, Postgraduate, 2020 - 2021

## Advising Theses

Fidanboylu K., FÜZYON TABANLI HİBRİT SİS KALDIRMA, Postgraduate, B.ARABALI(Student), 2023  
Fidanboylu K., Toker O., Design of MPD based fiber optic pressure sensors using polar format statistical image processing, Postgraduate, M.BURAK(Student), 2015  
Fidanboylu 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

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

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

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

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

Fidanboyly 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., Fidanboyly 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., Fidanboyly 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., Fidanboyly 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., Fidanboyly 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., Fidanboyly 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., Fidanboyly 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., Fidanboyly 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.

## Articles Published in Other Journals

- I. **An Overview of Fog Removal Algorithms**  
Arabalı B., Fidanboylu K.  
Veri Bilimi, vol.6, no.1, pp.46-60, 2023 (Peer-Reviewed Journal)
- II. **Fusion-Based Hybrid Fog Removal**  
Arabalı B., Fidanboylu K.  
Veri Bilimi, vol.5, no.2, pp.64-70, 2022 (Peer-Reviewed Journal)
- III. **Fiber Optik Sensörlerin Helikopter Uçuş Test Enstrümantasyonunda Kullanımı**  
HATİPOĞLU A., GÜNAYDIN A. C., FİDANBOYLU 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., Fidanboylu 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. **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 (IECHCI 2023), Erzurum, Turkey, 23 - 25 November 2023, vol.1, no.1, pp.56-61
- II. **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
- III. **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
- IV. **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
- V. **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
- VI. **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

- VII. **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
- VIII. **Verification of Patent Solution Proposed for Munition Release Systems Using TRIZ-Based Root Conflict Analysis (RCA+) Approach**  
HATİPOĞLU A., SUBRAN M., KORKMAZ F. F., KAYA M. O., FİDANBOYLU K.  
8th International Symposium on Innovative Technologies in Engineering and Science, Bursa, Turkey, 22 October 2020, vol.3, pp.115-126
- IX. **Radarlarda Hava Aracı Konumunun Kalman Filtresi ile Kestirimi**  
Şireci A. E., Demirhan S., HATİPOĞLU A., FİDANBOYLU K.  
3rd International Conference on Data Science and Applications (ICONDATA'20), June 25-28, 2020, Istanbul, TURKEY, Istanbul, Turkey, 25 - 28 June 2020
- X. **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
- XI. **Application of Fiber Optic Sensors for Helicopter Blade Deformation**  
HATİPOĞLU A., GÜNAYDIN A. C., KARAMAN İ., FİDANBOYLU K.  
5th International Conference on Advances in Mechanical Engineering (ICAME2019), Istanbul, Turkey, 17 - 19 December 2019, pp.761-772
- XII. **TRIZ Yaklaşımı Kullanarak Hava Araçlarındaki Mühimmat Bırakma Sistemlerinde Yenilikçi Çözüm Üretilmesi**  
KORKMAZ F. F., SUBRAN M., HATİPOĞLU A., KAYA M. O., FİDANBOYLU K.  
4th International Symposium on Innovative Approaches in Engineering and Natural Sciences (ISAS Winter 2019), Samsun, Turkey, 22 - 24 November 2019, pp.42-46
- XIII. **Dağılık Fiber Optik Sensör Türleri ve Sistemleri**  
KARAMAN İ., HATİPOĞLU A., GÜNAYDIN A. C., FİDANBOYLU K.  
Elektrik Elektronik Mühendisliği Kongresi (EEMKON 2019), Istanbul, Turkey, 14 - 16 November 2019, vol.16
- XIV. **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
- XV. **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
- XVI. **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
- XVII. **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
- XVIII. **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
- XIX. **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
- XX. **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
- XXI. **Design of intelligent fiber optic statistical mode sensors using novel features and artificial neural networks**  
Efendioglu H., YILDIRIM T., Toker O., Fidanboyly K.  
International Symposium on INnovations in Intelligent SysTems and Applications, INISTA 2012, Trabzon, Turkey, 2 - 04 July 2012
- XXII. **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
- XXIII. **Design of hetero-core smart fiber optic macrobend sensors**  
Efendioglu H., Sahin A., YILDIRIM T., Fidanboyly K.  
7th International Conference on Electrical and Electronics Engineering, ELECO 2011, Bursa, Turkey, 1 - 04 December 2011
- XXIV. **Design of a hetero-core smart fiber optic microbend sensor**  
Efendioglu H., Sahin A., YILDIRIM T., Fidanboyly K.  
2011 International Symposium on INnovations in Intelligent SysTems and Applications, INISTA 2011, Istanbul-Kadikoy, Turkey, 15 - 18 June 2011, pp.340-343
- XXV. **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
- XXVI. **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
- XXVII. **Use of artificial neural networks for prediction of output response of fiber optic microbend sensors**  
**Fiber optik mikro kıvrım sensörlerinin çıkış cevabının tahmin edilmesi için yapay sinir ağlarının kullanılması**  
Efendioglu H., YILDIRIM T., Fidanboyly K.  
18th IEEE Signal Processing and Communications Applications Conference, SIU 2010, Diyarbakır, Turkey, 22 - 24 April 2010, pp.792-795
- XXVIII. **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
- XXIX. **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
- XXX. **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
- XXXI. **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
- XXXII. **Rotation angle estimation algorithms for textures and their real-time implementation on the FU-SmartCam**  
Ulas C., Demir S., Toker O., Fidanboylu K.  
5th International Symposium on Image and Signal Processing and Analysis, İstanbul, Turkey, 27 - 29 September 2007, pp.469-475
- XXXIII. **Design and implementation of a bluetooth based infant monitoring/saver (BIMS) system**  
Sonmez A. E., Nalcaci M. T., Pazarbasi M. A., Toker O., Fidanboylu K.  
Conference on Health Monitoring of Structural and Biological Systems, California, United States Of America, 19 - 22 March 2007, vol.6532
- XXXIV. **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
- XXXV. **Performance analysis and Modeling of two-tier cellular networks with queuing handoff calls**  
Salih T., Fidanboylu K.  
8th IEEE International Symposium on Computers and Communication (ISCC 2003), Antalya, Turkey, 30 June - 03 July 2003, pp.143-148
- XXXVI. **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
- XXXVII. **A novel fiber optic system for measuring the dynamic forces in textiles**  
El-Sherif M., Fidanboylu 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
- XXXVIII. **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
- XXXIX. **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
- XL. **A NOVEL TIME-DOMAIN SYNTHESIS TECHNIQUE**  
FIDANBOYLU K., RIAD S., ELSHABINIRIAD A.  
7th Mediterranean Electrotechnical Conference (MeleCON 94), Antalya, Turkey, 12 - 14 April 1994, pp.641-644
- XLI. **AN OPTIMIZATION TECHNIQUE FOR TIME-DOMAIN APPLICATIONS**  
FIDANBOYLU K.  
7th Mediterranean Electrotechnical Conference (MeleCON 94), Antalya, Turkey, 12 - 14 April 1994, pp.735-738
- XLII. **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
- XLIII. **Establishment of empirical models for low-loss dielectrics**  
Fidanboylu 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
- XLIV. **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
- XLV. **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

- XLVI. **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
- XLVII. **ADVANCES IN MICROWAVE SUBSTRATE MATERIALS**  
HAYES M., FIDANBOYLU 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
- XLVIII. **WIDE-BAND AND MICROWAVE MATERIAL CHARACTERIZATION**  
RIAD S., DAVIS W., ELSHABINIRIAD A., SAED M., AMEY D., CURILLA J., LYLES J., FIDANBOYLU 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
- XLIX. **Effect of measurement bandwidth on time domain device modeling**  
Fidanboyly K., Bennia A., Riad S.  
1990 Conference on Precision Electromagnetic Measurements, Ottawa, Canada, 11 - 14 June 1990, pp.226-227
- L. **A NEW TIME DOMAIN APPROACH FOR DETERMINING THE DIELECTRIC-CONSTANT USING STRIPLINE GEOMETRY**  
FIDANBOYLU K., RIAD S.  
CONF ON INSTRUMENTATION AND MEASUREMENT TECHNOLOGY ( IMTC 90 ), San-Jose, Costa Rica, 13 - 15 February 1990, pp.259-262
- LI. **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
- LII. **Modeling of Geometrical Effects of Thick Film Components on Their Microwave Performance**  
LU S., MONTY H., FIDANBOYLU K., RIAD A. E.  
Intl. Symp. Hybrid Microelectronics, Maryland, United States Of America, 24 - 26 October 1989, pp.385-389
- LIII. **Time Domain Modeling of Microwave Devices Using the Modified Transient Circuit Analysis Package**  
FIDANBOYLU K., RIAD S., RIAD A. E.  
Intl. Symp. on Electromagnetic Metrology, Beijing, China, 19 - 22 August 1989, pp.72-76
- LIV. **Calibrated Wideband Measurement of Packaged Devices Using Transient Analysis Techniques**  
FIDANBOYLU K., RIAD S.  
3rd Intl. SAMPE Electronics Conf., LOS ANGELES, CALIFORNIA, United States Of America, 20 - 22 June 1989, pp.516-527
- LV. **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

Ceylan G. Ö., Gündoğdu Ş., Derviş T., Fidanboyly K., TUBITAK Project, Development of Earthquake Simulation Using Virtual Reality Technologies, 2024 - 2025

Salur S., Fidanboyly K., TUBITAK Project, Development and Testing of Vertical Landing Rocket Thrust Vector Control Algorithm, 2023 - 2024

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Fidanboylu K., El-Sherif M., Other International Funding Programs, Magnetoresistive Position Sensor, 1998 - 1998

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

Riad S., Fidanboylu 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

## Activities in Scientific Journals

Uluslararası Mühendislik Araştırma ve Geliştirme Dergisi, Evaluation Committee Member, 2024 - Continues

Niğde Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi, Evaluation Committee Member, 2023 - Continues

Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, Evaluation Committee Member, 2023 - Continues

Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, Evaluation Committee Member, 2023 - Continues

Uludağ Üniversitesi Mühendislik Fakültesi Dergisi, Evaluation Committee Member, 2020 - Continues

Iet Signal Processing, Evaluation Committee Member, 2019 - Continues

Measurement, Evaluation Committee Member, 2015 - Continues

Electronics Letters, Evaluation Committee Member, 2013 - Continues

IEEE Sensors Journal, Evaluation Committee Member, 2013 - Continues

Ieee Transactions On Circuits And Systems Ii-Express Briefs, Evaluation Committee Member, 2012 - Continues

Iet Communications, Evaluation Committee Member, 2012 - Continues

## Metrics

Publication: 71

Citation (WoS): 150

Citation (Scopus): 217

H-Index (WoS): 7

H-Index (Scopus): 7

## Scholarships

Graduate Education Scholarship, University, 1985 - 1987

Undergraduate Education Scholarship, University, 1980 - 1985

## Awards

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