



## CURRICULUM VITAE

**1.Name, Surname:** Hasan Hüseyin BALIK

**2. Date and Place of Birth:** 1 Ağustos 1970, Daday / Kastamonu

**3. Title:** Proffesor Doctor

**4.Education:**

Degree	Department/Program	University	Year
Undergraduate	Electrical & Electronics Eng.	Karadeniz Technical University	1988-1992
Undergraduate	Sociology	Istanbul University	2014-2019
Master	Military Sociology	National Defence University	2018-2020
Ph.D	Electrical & Electronics Eng.	University of Bristol	1993-1998

### 5. Academical Affiliations

Title	Place	Year
Research Assistant	Electrical & Electronics Eng, Faculty of Engineering & Architecture, Karadeniz Technical University	1992-1998
Ast.Prof.Dr.	Electrical & Electronics Eng, Faculty of Engineering & Architecture, Karadeniz Technical University	1998-1999
Ast.Prof.Dr.	Electrical & Electronics Eng, Faculty of Engineering, Firat University	1999-2006
Ast.Prof.Dr.	Electronics & communication Eng, Faculty of Engineering & Architecture, Beykent University	2006-2008
Asc.Prof.Dr.	Software Eng, Faculty of Engineering & Architecture, Beykent University	2009-2010
Asc.Prof.Dr.	Electrical & Electronics Eng, Faculty of Engineering & Architecture, Yenyuzuyil University	2010-2011
Asc.Prof.Dr.	Electrical & Electronics Eng, Faculty of Engineering & Architecture, Istanbul Arel University	2011-2013
Prof.Dr.	Software Eng, Faculty of Engineering, Istanbul Aydın University	2013-2016
Prof. Dr.	Computer Eng., Faculty of Electrical and Electronics, Yildiz Technical University	2016-2023
Prof.Dr.	Computer Eng, Faculty of Engineering, Istanbul Aydın University	2016-Present

### 6. Supervised Graduate Thesis:

#### 6.1 Master Thesis:

**6.1.1** Erol, Y., "Analysis of 2-D Microstrip Lines with Finite Differences Time Domain Method (FDTD)", Firat University, Science Institute, 2001.

**6.1.2** Akbal, A., "Analysis of Microwave Devices Characteristics with 2-D TLM Technique", Firat University, Science Institute, 2001.

**6.1.3** Sevinç, B., "Functional Programming Approach to Electromagnetic Phenomenon", Firat University, Science Institute, 2002.

**6.1.4** Akçakoca, M. "QoS in Routers", Beykent University, Science Institute, 2007.

**6.1.5** Ata, O., "Multiple Choice Examination System by using AJAX Technique, Beykent University, Science Institute, 2008.

- 6.1.6** Çiftçi, Ü., "Design of Student Assignment System Based on Multiple Grade, Beykent University, Science Institute, 2009.
- 6.1.7** Yiğit, E., "Design of Position Determination System with GPS Technology, Beykent University, Science Institute, 2009.
- 6.1.8** Bayraktar, H. C., "Comparison of speed and torque characteristics of Foreign excited and *Yabancı Uyarımlı ile Fırçasız DC Motorların Hız Ve Tork Karakteristiklerinin Karşılaştırılması Brushless DC Motor*", Istanbul Aydın University, Science Institute, 2015.
- 6.1.9** Al Bazzaz F. Y., "Far Distance Unmanned Aerial Vehicles Control and Object Detection Using Internet Of Things Network And Embeded Systems", Yıldız Technical University, Science Institute, 2018.
- 6.1.10** Al-Khafaji, Ahmed A.Radif, "Obstacles and Reasons That Prevent Transition to IPV6", Yıldız Technical University, Science Institute, 2019.
- 6.1.11** Al-Jabbari, Weam, "Enhancing Security Level of Industrial Internet of Things Devices Based on BotNet Detection and Feature Selection", Yıldız Technical iversity, Science Institute, 2022.
- 6.1.12** Raof, Harith Muthanna, "Infant Incubator Monitoring By Iot System", Altınbaş University, Science Institute, 2022.
- 6.1.13** Abd Ali, Dhuha, "Optimization Smart Classroom Using Feature Selection in ACO Algorithm", Altınbaş University, Science Institute, 2023.
- 6.1.14** Saemari, Hayder Abdulridha Jasim, "Use of Artificial Intelligence Techniques To Improve The Performance Of Massive MIMO and Beam Forming According To Channel Estimation", Altınbaş University, Science Institute, 2023.
- 6.1.15** Samandari, Radhwan Abdulmahdi Kadhim, "Determining The Content Of Bullying On The Communication Sites Using Data Mining", Altınbaş University, Science Institute, 2023.

## **6.2 Ph.D Thesis:**

- 6.2.1** Genç, Z., "Full-wave Analysis of Monolithic Microwave Integrated Circuits by using Integral Equation Method", Firat University, Science Institute, 2006.
- 6.2.2** Erol, Y., "A New Approach to Microwave Circuit Analysis with FDTD: Sub-Gridding", Firat University, Science Institute, 2007.
- 6.2.3** Akbal, A., "Effects of Electromagnetic Waves on Monolithic Chromosomes, Bacteria Growth and Enzyme", Firat University, Science Institute, 2008.
- 6.2.4** Çibuk, M., "Protocol Design And Implementing For Web Based Bio-Telemetry Applications Via Wimax/Ieee802.16 Networks", Firat University, Science Institute, 2009.
- 6.2.5** Ulaş, M., "Implementation of An algorithm by using VLF Signals for Prediction of Earthquake", Firat University, Science Institute, 2011.
- 6.2.6** Boyacı, A., "Design and Implementation of Power Sensible Routing architecture for Ad Hoc Sensor Networks", Firat University, Science Institute, 2012.
- 6.2.7** Ata, O., "Design of New Architecture to Provide Optimum Data Security for for Ad Hoc Sensor Networks", Trakya University, , Science Institute, 2012.
- 6.2.8** Bük, A., "Evaluation of Crimes Committed by Changing or Obtaining Electronically Stored Personal Data According to Criminal Law", Police Academy, Securty Science Institute, Cont..
- 6.2.9** Kara, M., "Authentication in Peer-to-Peer Real Time Data Transfer at Key Exchange Stage", National Defense University, Hezârfen Aeronautics and Space Technologies Institute, 2022.
- 6.2.10** Merzeh, H. R. J., "Hybrid Authentication System for Smart Home Environments Complies with GDPR", Yıldız Technical University, Science Institute, 2023.

## 7 Publications

### 7.1. Articles published on peer-reviewed international journals:

**7.1.1 Balik, H. H.**, ve C. J. Railton, "New Compensation Functions for Efficient Excitation of Open Planar Circuits in SDM", *IEEE Trans. On Microwave Theory and Technique*, 47, 106-108 (1999).

**7.1.2 Balik, H. H.**, ve C. J. Railton, "A new route to Fast accurate design tool for Open Planar Circuit Analysis", *International Journal for Engineering Modelling*, 15, 31-43 (2002).

**7.1.3 Balik, H. H.**, ve C. J. Railton, "Fast Rigorous Impedance Matrix Calculations in SDM for Analysis of Open Planar Structures", *International Journal for Engineering Modelling*, 15, 21-29 (2002).

**7.1.4 Balik, H. H.**, "Final Remedy to Excitation for the Aim of Reaching Fast, Efficient and Accurate Modeling Technique for Open Planar Structures: Interpolation", *International Journal for Engineering Modelling*, 16, 99-103 (2003).

**7.1.5 Balik, H. H.**, "Computationally Efficient Solution for Multilayer Microwave Circuits", *International Journal for Engineering Modelling*, 16, 77-82 (2003).

**7.1.6 Balikci, K.**, I. Cem Ozcan, Dilek Turgut-Balik, **Hasan H. Balik**, "A Survey Study on Some Neurological Symptoms and Sensations Experienced by Long Term Users of Mobile Phones", *Patologie Biologie*, 53, 30-34 (2005).

**7.1.7 Balik, H. H.**, Dilek Turgut-Balik, Kemal Balikci, I. Cem Ozcan, "Some Ocular Symptoms and Sensations Experienced by Long Term Users of Mobile Phones", *Pathologie Biologie*, 53, 88-91 (2005).

**7.1.8 Balik, H. H.**, Sevinc, B., Akbal, A., "A New Approach to Spectral Domain Method: Functional Programming", *Springer-Verlag in the Lecture Notes in Computer Science*, Part IV, LNCS 3994, 638-644 (2006).

**7.1.9 Akbal, A.**, **Balik, H. H.**, "Fast Rigorous Analysis of Rectangular Waveguides by Optimized 2D-TLM", *Springer-Verlag in the Lecture Notes in Computer Science*, Part IV, LNCS 3994 , 631-637 (2006).

**7.1.10 Erol, Y.**, **Balik, H. H.**, Inal, S, Karabulut, D., "Safe and Secure PIC based Remote Control Application for Intelligence Home", *International Journal of Computer Science & Network Security* , Vol 7, No 5, 179-182 (2007).

**7.1.11 Erol, Y.**, **Balik, H. H.**, "Contactless Power Transfer for Microcontroller Based LED Sign Board", *International Journal of Computer Science & Network Security*, Vol 7, No 5, 106-109 (2007).

**7.1.12 Balik, H. H.**, Balikci, K., Akbal, A., Ozcan I. C., Turgut-Balik D., "A Survey Study on Neurological Symptoms and Sensations Caused by Daily Use of Mobile Phones", *BU- Journal of Science and Technology*, 2(1), 67-75 (2008).

**7.1.13 Erol, Y.**, **Balik, H. H.**, "A New Approach To Analysis Of Rectangular Waveguides", *BU- Journal of Science and Technology*, 2(2), 177-193 (2008).

**7.1.14 Genc, Z.**, **Balik, H. H.**, "Fast and Accurate Analysis of Dual-Mode Filter Configurations with MPIE-MoM Technique", *BU- Journal of Science and Technology*, 3(1), 1-17 (2009).

**7.1.15 Ciftci, U**, Ata, O., **Balik, H. H.**, "Fast and Rigorous Assignment Algorithm for Multiple Reference and Calculation", *Turkish Journal of Computer and Mathematics Education*, 1(2), 187-199 (2010).

**7.1.16 Cibuk, M.**, **Balik, H. H.**, "A Novel Solition Approach and Protocol Design for Bio-Telemetry Applications", *Advances in Engineering Software*, Vol 42, No 7, 513-528 (2011).

**7.1.17 Akbal,A.**, Kiran, Y., Sahin, A., Turgut-Balik, D., **Balik, H. H.**, "Effects Of Electromagnetic Waves Emitted By Mobile Phones Operates At 1800 Mhz On Germination, Root Growth And Root Tip Cell Mitotic Division Of Lens Culinaris Medik", *Polish Journal of Environmental Studies*, Vol 21, No 1, 23-29 (2012).

**7.1.18 Cibuk, M.**, **Balik, H. H.**, "Implementation of Web Based Bio-Telemetry Applicatons On Wimax Networks", *Advances in Engineering Software*, Vol 49, No 1, 14-20 (2012).

- 7.1.19** Ulas M., Ata, F., **Balik, H. H.**, "Precursors of Earthquakes: VLF Signals-Ionosphere Relation", *International Journal of Electronics, Mechanical and Mechatronics Engineering*, Vol 2 Number 3, 240-251 (2012).
- 7.1.20** Ata, O., **Balik, H. H.**, "A Novel Algorithm for Computer Based Assessment", *BEU Journal of Science and Technology*, Vol 2, 57-59 (2012).
- 7.1.21** Akbal,A., **Balik, H. H.**, "Investigation of Antibacterial Effects of Electromagnetic Waves", *Polish Journal of Environmental Studies*, Vol 22, No 6, 1589-1594 (2013).
- 7.1.22** Bayraktar, H.C., **Balik, H. H.**, "The Control of Brushless DC Motors", *International Journal of Electronics, Mechanical and Mechatronics Engineering*, Vol 2 Number 5, 919-932 (2015).
- 7.1.23** Akbal,A., **Balik, H. H.**, "Effects of Electromagnetic Waves Emitted by Mobile Phones on DNA of Bacteria", *Journal of Applied Biological Sciences*, Vol 9, No 3, 45-48 (2015).
- 7.1.24** Ata ,O., **Balik, H. H.**, Ucar, E., "Protocol Design for Secure Communication in WSN", *TEM JOURNAL - Technology, Education, Management, Informatics*, Vol 6, No 2, 192-204, DOI: 10.18421/TEM62-02 (2017).
- 7.1.25** Al-khafaji, A. A. R., **Balik, H. H.**, "A Comparative Study n IPv4 And IPv6", *International Journal of Advanced Research (IJAR)*, Vol 6, No 4, 1073-1083, DOI: 10.21474/IJAR01/6953 (2018).
- 7.1.26** Kara, M., Aydin, M.A., **Balik, H. H.**, "BcVoP2P: Decentralized Blockchain-Based Authentication Scheme for Secure Voice Communication", *Intelligent Automation & Soft Computing*, Vol.31, No 3, 1901-1918 , DOI: 10.32604/iasc.2021.021309 (2022).
- 7.1.27** Merzeh, H.R.J., Kara, M., Aydin, M.A., **Balik, H. H.**, "GDPR Compliance IoT Authentication Model for Smart Home Environment", *Intelligent Automation & Soft Computing*, Vol.31, No 3, 1953-1970, DOI: 10.32604/iasc.2022.021297 (2022).
- 7.1.28** **Balik, H. H.**, Bařpınar A., "Psychometric Evaluation of the Factors for University Choice Scale in a Military Academy", *İstanbul Üniversitesi Sosyoloji Dergisi*, 42(1), 45-63, DOI: 10.26650/SJ.2022.42.1.0101 (2022).
- 7.1.29** Kara, M., Merzeh, H.R.J., Aydin, M.A., **Balik, H. H.**, "VoIPChain: A decentralized identity authentication in Voice over IP using Blockchain", *Computer Communications*, 198(2023), 247-261, DOI: 10.1016/j.comcom.2022.11.019 (2023).
- 7.1.30** Karpuz, C., Ozturk-Ozdemir, P., **Balik, H. H.**, Gorur, A., "An Alternative Coupling Matrix Arrangement for Capacitively Loaded Multi-Mode Microstrip Diplexers Having Close Channel Bands", *AEU-International Journal of Electronics and Communications*, 161(2023), 154540, <https://doi.org/10.1016/j.aeue.2023.154540> (2023).

## **7.2. International Conference / Symposium Papers:**

- 7.2.1** **Balik, H. H.**, C. J. Railton, "Effective Excitation Mechanism for Open Planar Microwave Circuits", *2nd Spring Research Conference*, 14, Bristol, UK., April, 1997.
- 7.2.2** **Balik, H. H.**, C. J. Railton, "Adaptive numerical integration technique for the analysis of planar circuits and antennas", *3rd High Frequency Postgraduate Student Colloquium*, 100-105, Leeds, UK , September, 1997.
- 7.2.3** **Balik, H. H.**, C. J. Railton, "Sub-gridding in the spectral domain method for the analysis of planar circuits and antennas", *TELSIKS 97*, 592-595, Nis, Yugoslavia, October, 1997.
- 7.2.4** **Balik, H. H.**, C. J. Railton, "Full-wave spectral domain analysis of open planar circuits and antennas", *National Radio Science Meeting*, 127, Colorado, USA , January, 1998.
- 7.2.5** **Balik, H. H.**, C. J. Railton, "Efficient enhancements in spectral domain method to speed up open planar circuit analysis", *9th Mediterranean Electrotechnical Conference*, Tel-Aviv, Israel, May, 1998.
- 7.2.6** **Balik, H. H.**, C. J. Railton, "Efficient numerical integration of the impedance matrix for the analysis of open planar circuits and antennas", *International Symposium on Electromagnetic Theory*, 630-632, Thessaloniki, Greece, May, 1998.
- 7.2.7** **Balik, H. H.**, "Analysis of multi layer structures in SDM by iterative Green's function calculation technique", *Mathematical Methods in Electromagnetic Theory*, 606-608, Kharlow, Ukraine, May, 1998.

- 7.2.8 Balik, H. H.**, "Interpolation for fast efficient excitation modelling technique of open planar circuits and antennas in SDM", *Mathematical Methods in Electromagnetic Theory*, 580-582, Kharlow, Ukraine, May, 1998.
- 7.2.9** Balikci, K., I. Cem Ozcan, Dilek Turgut-Balik, **Hasan H. Balik**, "The Effects of Long Term Use of Mobile Phones on Human Health", *EMTS'04 - 2004 International Symposium on Electromagnetic Theory*, Pisa, Italy, May, 2004.
- 7.2.10 Balik, H. H.**, Balikci, K., Akbal, A., Ozcan, I. C., Turgut-Balik D., Genc, Z., "A Survey Study on Some Symptoms and Sensations Occurred in Eyes Caused by Daily Talking Durations of Mobile Phones", *German Microwave Conference - GeMiC 2006*, Karlsruhe, Germany, March, 2006.
- 7.2.11** Genc, Z., **Balik, H. H.**, "Numerically Efficient MPIE-MoM Technique for Analysis of Microstrip Structures in Layered Media", *German Microwave Conference - GeMiC 2006*, Karlsruhe, Germany, March, 2006.
- 7.2.12** Erol, Y., **Balik, H. H.**, "Accurate Analysis of Dielectric Loaded Rectangular Waveguides by 2D-FDTD Method", *China Japan Joint Microwave Conference*, Sichuan, China, August, 2006.
- 7.2.13** Ciftci, U., **Balik, H. H.**, "Implementation of Student Assignment System Based on Multiple Grade Types", *3rd International Computer & Instructional Technologies Symposium*, Trabzon, Turkey, October, 2009.
- 7.2.14** Ata, O., **Balik, H. H.**, "Implementation of Multiple Choice Examination System Based On Ajax Tecnique", *3rd International Computer & Instructional Technologies Symposium*, Trabzon, Turkey, October, 2009.
- 7.2.15** Bolat Z.B., Erdemir A., Ata O., **Balik H. H.**, Turgut-Balik D., "Screening and Analysis of *Bacteroides fragilis* Genome Sequence for D-Lactate Dehydrogenase Enzyme using Bioinformatic Tools", *2. International Congress of Molecular Biology Association of Turkey*, Istanbul, TURKEY, November, 2013.
- 7.2.16** Fahad Yassir Al Bazzaz, **Balik H. H.**, "Drone Long Distance Remote Control Based on Internet Connection and Embadded Microcomputer", *International Conference on Advances in Science Icas 2017*, Istanbul, TURKEY, September, 2017.
- 7.2.17** Kara, M., Sanlioz, D.G., Merzeh, H.R.J, Aydin, M.A, **Balik H.H**, "Blockchain Based Mutual Authentication for VoIP Applications with Biometric Signatures", *6 th International Conference on Computer Science and Engineering UBMK 2021*, Ankara, TURKEY, September, 2017.
- 7.2.18** Boyaci, A., **Balik H.H**, Ata, F., "Energy-Aware Routing Architecture for Wireless Sensor Networks", *10TH INTERNATIONAL SYMPOSIUM ON DIGITAL FORENSICS AND SECURITY (ISDFS)*, İstanbul, TURKEY, DOI: 10.1109/ISDFS55398.2022.9800791, 16 Mayıs 2022.
- 7.2.19** Karpuz, C, Ozdemir, PO., Senol, H., Cengiz, A., **Balik H.H**, Gorur, A., "A Novel Concept in Design of Microwave Planar Dual Band Filter having the Controllable Closed/Isolated Bands by Using the Simple Vias and the Slow Wave Effect for 5G/IoT Applications", *51ST EUROPEAN MICROWAVE CONFERENCE (EUMC)*, London, UK, 13 July 2022.
- 7.2.20** Merzeh, H.R.J, Kara, M., Aydin, M.A, **Balik H.H**, "Secure Mutual Authentication Scheme for Iot Smart Home Environment using Biometricand Group Signature Verification Methods", *2022 International Conference on Artificial Intelligence and Applied Mathematics in Engineering (ICAIAME)*, Baku, Azerbaijan, 20-22 May 2022.
- 7.2.21** Alhanaf, AS., Al-jumaili, S., Bilgin, G., Duru, AD., Alyassri, S., **Balik H.H**, "Deep Transfer Learning Methods for Classification Colorectal Cancer Based on Histology Images", *2022 International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT)*, Ankara, Turkey, 20-22 October 2022.
- 7.2.22** AL-JABBARI, WH., Aydin, MA., **Balik H.H**, "BotNets detection based on machine learning and features selection", *4th International Congress on Engineering Sciences and Multidisciplinary Approaches*, İstanbul, Turkey, 3-5 November 2022.
- 7.2.23** DAWOOD, OH., **Balik H.H**, "Implementation of Symmetrical Compensation based DWDM RoF system Toward Tbps of data transmission for 5G Fiber Optic Networks" *4th IEEE Middle East and North Africa COMMunications Conference (MENACOMM)*, Amman, Jordan, 6-8 December 2022.

- 7.2.24** MAMOORI, R.J., **Balik H.H.**, "Cluster Based Routing By Using Mfo Meta-Heuristic Algorithm" *5<sup>th</sup> International Congress on Engineering Sciences and Multidisciplinary Approaches*, Turkey, 25-26 February 2023.
- 7.2.25** Sura, A.H., **Balik H.H.**, "Deep Learning for ECG Signal Classification in Remote Applications" *2<sup>nd</sup> International Conference On Advanced Engineering, Technology And Applications (ICAETA)*, Turkey, 10-11 March 2023.

#### **7.4. Articles published on peer-reviewed national journals:**

- 7.4.1** Çıbuk, M., **Balik, H. H.**, "Biyomedikal Ağlar için Yeni bir İletişim Uygulama Modeli", *Fırat Üniversitesi Mühendislik Bilimleri Dergisi*, 22(1), 95-109 (2010).
- 7.4.2** Akbal, A., **Balik, H. H.**, "Dairesel Dalga Kılavuzlarının Optimize Edilmiş İletim Hattı Matris Modeli ile Tam Dalga Analizi", *İstanbul Aydın Üniversitesi Dergisi*, 3(11), 63-81 (2011).
- 7.4.3** Ata, O., **Balik, H. H.**, "Kablosuz Algılayıcıların Güncel Kullanım Alanları", *İstanbul Aydın Üniversitesi Dergisi*, 3(11), 107-127 (2011).
- 7.4.4** Ata, O., Ucar, E., **Balik, H. H.**, "Kablosuz Algılayıcı Ağlarda Kullanılan Teknoloji ve Protokoller Üzerine bir İnceleme", *İstanbul Aydın Üniversitesi Dergisi*, 51-68, 3(12), 2011.
- 7.4.5** Akbal, E., Gulten, A., **Balik, H. H.**, "Kablosuz Algılayıcı Ağlarda Kullanılan Güncel Çoklu Yönlendirme Algoritmaları", *Bitlis Eren Üniversitesi Fen Bilimleri Dergisi*, 1 (1), 50-58 (2012).
- 7.4.6** Boyacı, E., Ata, F., **Balik, H. H.**, "Telsiz Duyurga Ağlarda Kullanılan Yönlendirme Tekniklerinin Enerji Verimliliği Açısından Karşılaştırması", *Bitlis Eren Üniversitesi Fen Bilimleri Dergisi*, 2(1), 69-88 (2013).
- 7.4.7** Erdemir, A., Ozkan, E., Turan Guler, N., Selcuk, H. H., Kara, B., Baskin, Y., Ellidokuz, H., **Balik, H. H.**, Turgut-Balik, D., "Genotyping and Analys's of rs911271 Polymorphism for Intracranial Aneurysm", *Sigma Journal of Engineering and Natural Sciences*, 6(1), 109-116 (2015).
- 7.4.8** Seker, A., **Balik, H. H.**, Diri, B., "Derin Öğrenme Yöntemleri ve Uygulamaları Hakkında Bir İnceleme", *Gazi Mühendislik Bilimleri Dergisi*, 3(3), 47-64 (2017).
- 7.4.9** Gumus, F., Ata, O., **Balik, H. H.**, "Davranışsal Biyometrinin 5 Yılı: Kimlik Doğrulama ve Anomali Tespit Uygulamaları", *Fırat Üniversitesi Mühendislik Bilimleri Dergisi*, 30(1), 345-364, 2018.

#### **7.5. National Conference / Symposium Papers:**

- 7.5.1** Sevinç, B., Tuzsuzoğlu, H. H., Karaduman, Ö., Korkmaz, Ü., **Balik, H. H.**, "Fırat Üniversitesi Öğrenci İşleri Otomasyonu", *AB2001- Akademik Bilişim 2001*, Samsun, Şubat, 2001.
- 7.5.2** Taş, O., **Balik H. H.**, "Konut Tahsis Otomasyonu", *UBMK2001 Ulusal Bilişim ve Multimedya Konferansı*, 73-82, Elazığ, Nisan, 2001.
- 7.5.3** Akbal, A., **Balik H. H.**, "Öğrenci Laboratuvarları için Optimum Çözümler", *UBMK2001 Ulusal Bilişim ve Multimedya Konferansı*, 131-145, Elazığ, Nisan, 2001.
- 7.5.4** Erol, Y., **Balik H. H.**, "Zaman domeninde sonlu farklar metodu ile tek boyutlu yapılarda elektromanyetik dalga yayılımının incelenmesi", *UBMK2001 Ulusal Bilişim ve Multimedya Konferansı*, 176-193, Elazığ, Nisan, 2001.
- 7.5.5** Özcan H., Yeşilkaya, M., **Balik, H. H.**, "CGI/Perl Programlama ve Sanal Kütüphane Uygulaması", *UBMK2001 Ulusal Bilişim ve Multimedya Konferansı*, 157-175, Elazığ, Nisan, 2001.
- 7.5.6** Taş, O., **Balik, H. H.**, "Konut Tahsis Otomasyonu", *AB2002- Akademik Bilişim 2002*, Konya, Şubat, 2002.
- 7.5.7** Saltan M., **Balik, H. H.**, "Fırat Üniversitesi Duyuru Sistemi Otomasyonu", *VIII. Türkiye' de İnternet Konferansı*, İstanbul, Aralık, 2002.
- 7.5.8** Topan B., **Balik, H. H.**, "Fırat Üniversitesi Kurul Sınav Sistemi Ölçme ve Değerlendirme Otomasyonu", *AB2003- Akademik Bilişim 2003*, Adana, Şubat, 2003.
- 7.5.9** Saltan M., Çıbuk, M., **Balik, H. H.**, "Fırat Üniversitesi Networking Academy Otomasyonu", *AB2003- Akademik Bilişim 2003*, Adana, Şubat, 2003.

- 7.5.10** Yeli E., Karabatak, G., **Balık, H. H.**, "Squid Proxy ile Gerçek Zamanlı Web Trafik Kontrolü", *AB2004- Akademik Bilişim 2004*, Trabzon, Mart, 2004.
- 7.5.11** Başar U., **Balık, H. H.**, "Fırat Üniversitesi PHP-MySQL Tabanlı Üniversite Site Yapıcı Sistemi", *AB2004- Akademik Bilişim 2004*, Trabzon, Mart, 2004.
- 7.5.12** Balıkcı K., Turgut-Balık, D., Özcan, İ. C., **Balık, H. H.**, "Günlük Cep Telefonu Kullanımının İnsan Sağlığına olan Etkilerinin İstatistiksel Araştırılması", 236-238, *II. URSI-Türkiye'2004 Bilimsel Kongresi*, Ankara, Eylül, 2004.
- 7.5.13** Akbal A., Erol, Y., **Balık, H. H.**, "FDTD ile TLM Metodlarının Dikdörtgen Kesitli Dalga Klavuzlarının Analizi Açısından Karşılaştırılması", 99-95, *II. URSI-Türkiye'2004 Bilimsel Kongresi*, Ankara, Eylül, 2004.
- 7.5.14** Boyacı, A., Ulaş, M., Akbal, E., Karabatak, G., Akbal, A., **Balık, H. H.**, "Fırat Üniversitesi Dinamik Web Sayfası", *AB2005- Akademik Bilişim 2005*, Gaziantep, Şubat, 2005.
- 7.5.15** Akbal, E., Ulaş, M., Boyacı, A., Karabatak, G., Akbal, A., **Balık, H. H.**, "Fırat Üniversitesi Enformatik Laboratuvarı Otomasyonu", *AB2005- Akademik Bilişim 2005*, Gaziantep, Şubat, 2005.
- 7.5.16** Karabatak, G., **Balık, H. H.**, "Netfilter ve Linux Tabanlı bir Firewall Tasarımı", *AB2005- Akademik Bilişim 2005*, Gaziantep, Şubat, 2005.
- 7.5.17** Akbal, E., Karabatak, G., Boyacı, A., Ulaş, M., Akbal, A., **Balık, H. H.**, "Fırat Üniversitesi Web Tabanlı Kütüphane Otomasyonu", *AB2005- Akademik Bilişim 2005*, Gaziantep, Şubat, 2005.
- 7.5.18** Akbal, A., **Balık, H. H.**, "TCP/IP'nin dünü, bugünü, yarını", *Akademik Bilişim 2006 + BilgiTek IV*, Denizli, Şubat, 2006.
- 7.5.19** **Balık, H. H.**, Akbal, A., Barut, İ. O., Solakoğlu, L., "Grafik Renklendirme Algoritması kullanılarak Otomatik Ders Programı Geliştirme Yazılımı", *Akademik Bilişim 2006 + BilgiTek IV*, Denizli, Şubat, 2006.
- 7.5.20** Erol, Y., Akbal, A., **Balık, H. H.**, "FDTD ve TLM Metodları ile Dalga Klavuzu Analizi üzerine yeni bir yaklaşım", *GAP V. Mühendislik Kongresi*, Urfa, Nisan, 2006.
- 7.5.21** Erol, Y., **Balık, H. H.**, "Dairesel Dalga Klavuzlarının 2 Boyutlu FDTD ile Modellenmesi", *URSI-Türkiye 2006*, Ankara, Eylül, 2006.
- 7.5.22** Erol, Y., **Balık, H. H.**, "FDTD Tekniği İçin Yeni Bir Alt Izgaralama Algoritması", *ELECO'2008 Elektrik-Elektronik ve Bilgisayar Mühendisliği Sempozyumu*, Bursa, Kasım, 2008.
- 7.5.23** Akbal, A., **Balık, H. H.**, "Mobil Telefonların Yayıdığı Elektromanyetik Dalgaların E.coli'nin Gelişimine Etkisi", *1. Ulusal EMC Konferansı*, İstanbul, Eylül, 2011.
- 7.5.24** Akbal, A., **Balık, H. H.**, "Elektromanyetik Dalgaların Bakteri Gelişimi Üzerine Etkisi", *EMANET'2011 Elektromanyetik Alanlar ve Etkileri Sempozyumu*, İstanbul, Ekim, 2011.
- 7.5.25** Akbal, A., **Balık, H. H.**, "İletim Hattı Matris Modeli İle Mikrostrip Hatların Analizi", *Elektrik-Elektronik Bilgisayar Sempozyumu*, 367-370, Elazığ, Ekim, 2011.
- 7.5.26** Akbal, A., **Balık, H. H.**, "Mobil Telefonların Yayıdığı Elektromanyetik Dalgaların Biyolojik Sistemlere Etkileri", *URSI-Türkiye 2014*, Elazığ, Ağustos, 2014.
- 7.5.27** Sanlıoğlu, S. G., Kara, M., Aydın, M. A., **Balık, H. H.**, "Makine Öğrenmesi Yöntemleri İle Ortalama Websitesi Saldırı Tespiti", *12th International Information Security and Cryptology Conference (ISCTURKEY 2019)*, Ankara, Ekim, 2019.

## **7.6. Books:**

- 7.6.1** **Balık, H. H.** (Editor), *Fundamentals of Computer Technologies* (in Turkish), FÜ Basımevi, 2003.
- 7.6.2** **Balık, H. H.** (Editor), *Introduction to C Programming* (in Turkish), FÜ Basımevi, 2003.
- 7.6.3** **Balık, H. H.** (Editör), *Introduction to Web Programming with ASP* (in Turkish), FÜ Basımevi, 2004.

## **8. Projects**

- 8.1** "ADO, infrastructure hardware automation (Foundation Project)", FUBAP, **Project Manager**, 2003.
- 8.2** "Firat University IT Foundation Project", FUBAP, **Project Member**, 2004
- 8.3** "Investigation of the role single nucleotide polymorphisms on intracranial aneurysm formation", Yildiz Technical University, BAP (Scientific Funding Unit) Project, Project No: 2012-07-04-KAP01, **Project Member**, 2012-2015.
- 8.4** "T. R. MoH vaccines and antisera cold chain and inventory management system", Yildiz TTO, **Project Manager**, September 2014- December 2014.
- 8.5** "New Generation Ordering System", TUBITAK 1507 Project, **Project Consultant**, April 2014-April 2015.
- 8.6** "T. R. MoH vaccines and antisera cold chain and inventory management system II ", Yildiz TTO, **Project Manager**, Mach 2014- January 2016.
- 8.7** "Kumpara", Yildiz TTO, **Project Manager**, May 2015-December 2015.
- 8.8** "T. R. MoH vaccines and antisera cold chain and inventory management system III ", Yildiz TTO, **Project Manager**, February 2016- December 2016.
- 8.9** "Laboratory Information Management System Development for New Generation Genomic Systems", Yildiz TTO, **Project Manager**, February 2016- December 2016.
- 8.10** "CodeVisit / Mobile platform-independent wireless data sharing system", TUBITAK 1507 Project, **Project Consultant**, October 2015- May 2016.
- 8.11** "Starnet ERP (Enterprise Resource Planning) Development - I", Yildiz TTO, **Project Manager**, April 2016- December 2016.
- 8.12** "SgortaPro", Yildiz TTO, **Project Manager**, October 2016 - December 2017.
- 8.13** "T. R. MoH vaccines and antisera cold chain and inventory management system IV", Yildiz TTO, **Project Manager**, January 2017 - December 2017.
- 8.14** "D-SUIT Employee-Focused Enterprise Process Automation Platform", Yildiz TTO, **Project Manager**, November 2017 - December 2018.
- 8.15** "T. R. MoH vaccines and antisera cold chain and inventory management system V", Yildiz TTO, **Project Manager**, January 2018 - December 2018.
- 8.16** "T. R. MoH vaccines and antisera cold chain and inventory management system VI", Yildiz TTO, **Project Manager**, January 2019 - February 2020.
- 8.17** "T. R. MoH vaccines and antisera cold chain and inventory management system VII", Yildiz TTO, **Project Manager**, April 2020 - December 2020.
- 8.18** "New Compact Multimode Multiband Adjustable Multiplexer Design and Development of Coupling Matrix Synthesis Technique for Computer Aided Designs (CIS) for IoT and 5G MIMO Applications" TÜBİTAK 1001, Project No: 120E101, **Project Member**, August 2020-August 2022.
- 8.19** "T. R. MoH vaccines and antisera cold chain and inventory management system VIII", Yildiz TTO, **Project Manager**, March 2021 - December 2021.
- 8.20** "Internet of Things Ecosystem Security Test and Evaluation", Istanbul Development Agency Project Number: YMP-0061, October 2018-March 2021.

## 9. Patents

- 9.1** A System For Cold Chain And Stock Management, **Inventor**, International Application No.:PCT/TR2018/050096, 2019.

## 10.Executive Positions:

Dean	Engineering Faculty, Istanbul Aydin University	2023-Present
Senate Member	Istanbul Aydin University	2023-Present
Management Committee Member	Istanbul Aydin University	2023-Present
Dean	National Defense University, Turkish Air Academy	2017-2021
Senate Member	National Defense University	2018-2021



Menagement Committee Member	National Defense University	2018-2021
Consultant	Ministry of Health-Public Health Agency of Turkey	2014-2021
Consultant	Dogus Information Processing and Technology Services Inc.	2017-2018
Head of Computer Hardware Devision	Yildiz Technical University, Faculty of Electrical & Electronics, Computer Engineering	2016-2017 2021-2023
Head of Department	Yildiz Technical University, Department of Informatics	2016-2017
Member of Advisory Board	Yildiz Technical University, Information Technologies Coordinatorship	2017 2019-2020
Member of Representative Board	Yildiz Technical University, Information Technologies Coordinatorship	2017
Head of Department	İstanbul Aydın University, Department of Software Engineering	2013-2016
Faculty Committee Member	İstanbul Aydın University, Faculty of Engineering	2013-2016
Faculty Committee Member	İstanbul Aydın University, Faculty of Architecture and Design	2013
Faculty Menagement Committee Member	İstanbul Aydın University, Faculty of Architecture and Design	2013
Faculty Committee Member	İstanbul Aydın University, Faculty of Health Sciences	2013
Faculty Menagement Committee Member	İstanbul Aydın University, Faculty of Health Sciences	2013
Senate Member	İstanbul Arel University	2011-2013
Head of Science Institute	İstanbul Arel University	2011-2013
Faculty Committee Member	İstanbul Arel University, Faculty of Engineering & Architecture	2011-2013
Faculty Menagement Committee Member	İstanbul Arel University, Faculty of Engineering & Architecture	2011-2013
Member of the Commission	İstanbul Arel University, Bologna Coordination Commission	2011-2013
Member of the Board	İstanbul Arel University, Academic Evaluation and Quality Improvement Committee	2011-2013
ERP Consultant	Turkish Radio and Television Foundation (TRT)	2011-2013
Head of Department	İstanbul Arel University, Department of Eelectical and Electronics Engineering	2011-2013
Member of the Commission	İstanbul Arel University, Commission of Scientific Research Projects	2011-2013
Head of Department	İstanbul Arel University, Department of Computer Engineering	2012
Senate Member	Yeni Yüzyıl University	2010-2011
Head of Science Institute	Yeni Yüzyıl University	2010-2011
Dekan Yardımcısı	Yeni Yüzyıl University, Faculty of Engineering & Architecture	2010-2011
Faculty Committee Member	Yeni Yüzyıl University, Faculty of Engineering & Architecture	2010-2011
Faculty Menagement Committee Member	Yeni Yüzyıl University i, Faculty of Engineering & Architecture	2010-2011

Head of Department	Yeni Yüzyıl University, Department of Electrical and Electronics Engineering	2010-2011
Independent Assessor	Istanbul Development Agency	2011-2012
Board of Trustees Member	Gedik Education Foundation (Gedik Vocational School)	2010-2011
Faculty Committee Member	Beykent University, Faculty of Engineering & Architecture	2009-2010
ECDL Coordinator	Beykent University ECDL Test Center	2006-2010
Co-Editor	BU- Journal of Science and Technology	2007-2010
Deputy Head	Beykent University, Quality Evaluation and Improvement Study Group	2008-2010
Coordinator to Information System	Beykent University	2006-2009
Head of Division	Beykent University, Computing Service	2007-2008
Menager	Software Development Unit	2006-2009
Deputy Coordinator	Beykent Universiy, Distance Learning Center	2007-2008
Deputy Head of Department	Beykent University, Faculty of Engineering & Architecture, Electrical & Electronics Engineering	2006-2008
Head of Department	Firat University, Department of Informatics	2000-2004
Head of Telecommunication Devision	Firat University, Faculty of Engineering, Electrical & Electronics Engineering	1999-2006
Head of Division	Firat University, Computing Service	2000-2004
Head of Division	Firat University, Student Affairs Office	2001-2003
Member of Board	Firat University, Menagemet Unit of Scientific Research Projects	2002-2004
Member of Board	Firat Universiy, Distance Learning Center	2002-2004
Member of Board	Firat Universiy, Continuing Education Center	2002-2004
Coordinator	Firat University, Printing House	2003-2004
Head of the Board	Firat University, Computer Technical Commusion	2000-2004
General Menager	Firat News	2003-2004
ECDL Coordinator	Firat University ECDL Test Center	2000-2004
Academic Head	Firat University, Informatic Society	2002-2004

### **11. Awards :**

1998, Young Scientist Award, Commussion B of URSI.  
1999, Tübitak-International Publication Encouragement Award  
2006, Tübitak Publication Encouragement Award (2 Times)  
2006, Tübitak Support to Infernational Scientific Activities Participation  
2007, BEDEK Publication Encouragement Award (2 Times)  
2008, BEDEK Publication Encouragement Award (2 Times)  
2011, AREL Publication Encouragement Award (2 Times)  
2012, AREL Publication Encouragement Award (2 Times)  
2014 AYDIN Publication Encouragement Award (1 Times)  
2015 AYDIN Citation Encouragement Award (2 Times)

### **12. Given Ungergraduate & Graduate Lectures in Last Two Years:**

Academical	Semeter	Name	Hours
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Year			Teo.	Exp.
2022-2023	Güz	Computer and Network Security	3	0
		Security of Computer Systems	3	2
		Advanced Computer Networks	3	0
		Security in Informatics - 1	2	0
		Security in Informatics - 2	2	0
	Bahar	Computer Architecture	3	0
		Advanced Computer Architecture	3	0
		Computer and Network Security	3	0
		Computer Networking Technologies	2	2
		Security in Informatics - 1	2	0
Security in Informatics - 2	2	0		
2021-2022	Güz	Computer and Network Security	3	0
		Security of Computer Systems	3	2
		Advanced Computer Networks	3	0
	Bahar	Computer Architecture	3	0
		Advanced Computer Architecture	3	0
		Computer and Network Security	3	0
		Computer Networking Technologies	2	2

### **13. Journal Refereeing**

- 13.1** Information Technology Research Journal
- 13.2** BEU Fen Bilimleri Dergisi (BEU Journal of Science)
- 13.3** Scientific Research and Essays
- 13.4** Advances in Engineering Software
- 13.5** African journal of Agricultural Research
- 13.6** Maejo International Journal of Science and Technology
- 13.7** New World Sciences Academy (NEWSA)
- 13.8** International Journal on Computers and Electrical Engineering
- 13.9** İstanbul Aydın Üniversitesi Dergisi
- 13.10** Gazi Üniversitesi Politeknik Dergisi
- 13.11** Ad Hoc & Sensor Wireless Networks
- 13.12** Turkish Journal of Electrical Engineering & Computer Sciences
- 13.13** Polish Journal of Environmental Studies
- 13.14** Journal of Network and Computer Applications
- 13.15** Journal of Engineering and Computer Innovations
- 13.16** Engineering Journal
- 13.17** Science Journal of Physics
- 13.18** Neural Computing and Applications (NCA)
- 13.19** Journal of Electrical and Electronics Engineering Research
- 13.20** International Journal of Electrical Power and Energy Systems
- 13.21** Journal of Communications and Networks
- 13.22** Computer Applications in Engineering Education
- 13.23** International Journal Of Electronics, Mechanical And Mechatronics Engineering
- 13.24** Bitlis Eren Üniversitesi Fen bilimleri Dergisi
- 13.25** Scientific Research and Essays
- 13.26** Journal of Information Science
- 13.27** Karaelmas Science and Engineering Journal

- 13.28** International Journal of RF and Microwave Computer-Aided Engineering  
**13.29** Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi  
**13.30** Fırat Üniversitesi Mühendislik Bilimleri Dergisi  
**13.31** Selcuk University Journal of Engineering, Science and Technology  
**13.32** Physica A: Statistical Mechanics and its Applications

## **14. Project Arbitration**

**14.1** TUBTAK

**14.2** Trakya University, Scientific Funding Unit

**14.3** Firat University, Scientific Funding Unit

**14.4** Istanbul Development Agency, Funding Programme

**14.5** Siirt University, Scientific Funding Unit

## **15. Areas of expertise**

Computer networks, Computer organisation and architecture, Operating systems, Sensors and Sensor networks, Biomedical networks, Bio-informatics, Distance learning, Computer system design and management, Forensics, Computer and network security, Electrmagnetic fields and waves, Enterprice resource planning implementation and menagement

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