

Prof. Hüseyin ARSLAN

Personal Information

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Biography

Dr. Arslan (IEEE Fellow, NAI Fellow, IEEE Distinguished Lecturer, Member of Turkish Academy of Science) received his BS degree from the Middle East Technical University (METU), Ankara, Turkey in 1992; his MS and Ph.D. degrees were received respectively in 1994 and 1998 from Southern Methodist University (SMU), Dallas, TX. From January 1998 to August 2002, he was with the research group of Ericsson, where he was involved with several projects related to 2G and 3G wireless communication systems. Between August 2002 and August 2022, he was with the Electrical Engineering Department, at the University of South Florida, where he was a Professor. In December 2013, he joined Istanbul Medipol University to found the Engineering College, where he has been working as the Dean of the School of Engineering and Natural Sciences. In addition, he has worked as a part-time consultant for various companies and institutions including Anritsu Company, Savronik Inc., and The Scientific and Technological Research Council of Turkey. Dr. Arslan served as the founding Chairman of The Board Of Directors of ULAK Communication Company, which is the Turkish telecom equipment provider. He was also a member of the Tubitak Scientific Board. Since May 2021, he is serving as a Member of the Board of Directors for Turkcell, the biggest cellular operator in Turkey while also operating in Ukraine, Belarus, and Cyprus.

Dr. Arslan's research interests are related to advanced signal processing techniques at the physical and medium access layers, with cross-layer design for networking adaptivity and Quality of Service (QoS) control. He is interested in many forms of wireless technologies including cellular radio, wireless PAN/LAN/MANs, fixed wireless access, aeronautical networks, underwater networks, in vivo networks, and wireless sensors networks. His current research interests are on 5G and beyond radio access technologies, physical layer security, interference management (avoidance, awareness, and cancellation), cognitive radio, small cells, UWB, multi-carrier wireless technologies, dynamic spectrum access, co-existence issues on heterogeneous networks, aeronautical (High Altitude Platform) communications, in vivo channel modeling and system design, and underwater acoustic communications. He has served as technical program committee chair, technical program committee member, session and symposium organizer, and workshop chair in several IEEE conferences. He is currently a member of the editorial board for the IEEE Surveys and Tutorials and the Sensors Journal. He has also served as a member of the editorial board for the IEEE Transactions on Communications, the IEEE Transactions on Cognitive Communications and Networking (TCCN), the Elsevier Physical Communication Journal, the Hindawi Journal of Electrical and Computer Engineering, and Wiley Wireless Communication and Mobile Computing Journal.

Dr. Arslan has made scholarly contributions in various arenas and his research has created 57 issued patents and more than 80 pending patents, 51 book chapters, 3 edited books and one text book, more than 200 peer-reviewed journal papers (mostly IEEE journals) and more than 260 peer-reviewed IEEE conference papers. His work in wireless communications has led to more than 20000 citations and to a Google scholar H-index of 57. His outstanding contributions in wireless communications was recognized by his peers by elevation to IEEE Fellow. Dr. Arslan's research and patents on waveform design and cognitive radios for emerging and future generation of wireless communication systems (e.g., 5G and 6G) have attracted an exceptionally high level of interest from wireless companies, standards bodies, and his research peers. As a result of his innovative and creative research approaches, he was elected as Fellow of National Academy of Inventors. He is also selected as a full member of Turkish Academy of Sciences.

In addition to his research activities, Dr. Arslan has also contributed significantly to wireless communication education. He has integrated the outcomes of his research into education which lead him to develop several prestigious educational journal and conference papers. He also has developed a unique "Wireless Systems Laboratory" course (funded by the National Science Foundation and Agilent technologies) where he was able to teach not only the theory but also the practical aspects of wireless communication system with the most contemporary test and measurement equipment. Dr. Arslan has been honored with numerous teaching awards in recognition of his reputation among students as an effective teacher. He has graduated 27 PhD students and 24 MS students. His students received numerous awards and found employment in top universities and key industrial companies all over the world.

Education Information

Doctorate, Southern Methodist University, Elektrik Ve Elektronik Muhendisligi, United States Of America 1995 - 1998
Undergraduate, Middle East Technical University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 1987 - 1992

Dissertations

Doctorate, Adjacent Channel Interference Cancellation in TDMA/FDMA Mobile Radio Systems, Southern Methodist University, Elektrik Ve Elektronik Muhendisligi, 1998

Research Areas

Information Systems, Communication and Control Engineering, Communication Engineering, Communication Networks, Communication System Theory, Wireless Communication, Modulation Methods, Radar Theory, Telecommunication Applications, Simulation, Modelling and Identification, Communication Control Systems, Signal Processing, Signal Processing for Communication, Engineering and Technology

Academic Titles / Tasks

Professor, Istanbul Medipol University, Mühendislik Ve Doğa Bilimleri Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2014 - Continues

Professor, University of South Florida, Engineering, Electrical, 2013 - 2022

Associate Professor, University of South Florida, Engineering, Electrical, 2008 - 2013

Assistant Professor, University of South Florida, Engineering, Electrical, 2002 - 2008

Research Assistant, Middle East Technical University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 1992 - 1993

Academic and Administrative Experience

Dean, Istanbul Medipol University, Mühendislik Ve Doğa Bilimleri Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2013 - Continues

Director of The Institution, Istanbul Medipol University, Fen Bilimleri Enstitüsü, 2013 - 2017

Courses

Wireless Communication Systems, Doctorate, 2014 - 2015

Wireless Communication Systems, Postgraduate, 2014 - 2015

Wireless Communications System Laboratory , Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008

Wireless Communications System Laboratory , Postgraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008

Mobile & Personal Communications, Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009

Introduction to Electrical Systems, Undergraduate, 2013 - 2014

Mobile & Personal Communications, Postgraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009

Selected Topics in Communications (OFDM and Beyond) , Postgraduate, 2012 - 2013

Cognitive and Software Defined Radio, Postgraduate, 2011 - 2012

Advanced Topics on Wireless Communications, Postgraduate, 2009 - 2010, 2008 - 2009

Advising Theses

Hüseyin A., Modulation options for OFDM-based waveforms, Doctorate, A.MOHAMMAD(Student), 2023

Hüseyin A., 5G ve ötesinde hizmet sürekliliği için karasal olmayan ağlar (NTN), Postgraduate, Y.İSLAM(Student), 2022

Hüseyin A., Developing novel spectrum occupancy prediction and physical layer security techniques, Postgraduate, M.ALİ(Student), 2020

Hüseyin A., Interference and channel control techniques for the future of wireless communications, Doctorate, S.TUSHA(Student), 2020

Hüseyin A., 5. nesil mobil haberleşme sistemleri için milimetre dalga kanal modellemesi, Doctorate, C.ŞEKER(Student), 2020

Hüseyin A., Developing novel radio resource management techniques for 5G and beyond, Doctorate, A.YAZAR(Student), 2020

Hüseyin A., Physical layer security techniques for future wireless communication systems against eavesdropping, Doctorate, H.MUHAMMAD(Student), 2020

Hüseyin A., NOMA multi-numerology and guard reduction methods in OFDM systems for 5g networks, Postgraduate, A.TAYSEER(Student), 2018

Hüseyin A., Aerial platforms utilization for future networks, Postgraduate, M.HELMY(Student), 2018

Hüseyin A., Emulation techniques for small scale fading aspects of wireless channels by using reverberation chamber, Postgraduate, A.BAKARI(Student), 2018

Hüseyin A., 5G challenges : Waveform design and D2D communication, Postgraduate, H.TAKSHI(Student), 2018

Hüseyin A., OFDM with index modulation for narrowband iot and mmTc, Postgraduate, A.TUSHA(Student), 2018

Hüseyin A., On the design of a flexible waveform and low icı symbol boundary alignment, Postgraduate, M.NEMATİ(Student), 2017

Hüseyin A., Araç-araç haberleşmesi için veri link tasarımı, Postgraduate, Ö.ÖZDEMİR(Student), 2017

Hüseyin A., Signal processing techniques for security enhancement of wireless networks at the physical layer, Postgraduate, M.SOLTANI(Student), 2017

Hüseyin A., Interference Mitigation, Resource Allocation and Channel Control Techniques for 4G and Beyond Systems, Doctorate, M.HARUN(Student), 2017
Hüseyin A., Air-ground channel modeling and waveform containment, Postgraduate, M.IBRAHIM(Student), 2017
Hüseyin A., RF sinyal karakteristiklerinin kapalı ortam konumlandırma etkisi, Postgraduate, V.BAYAR(Student), 2016
Hüseyin A., Physical layer security schemes for wireless communication systems, Postgraduate, M.YUSUF(Student), 2016

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A Decentralized Dynamic Relaying-Based Framework for Enhancing LoRa Networks Performance**
Haif H., Arous A., ARSLAN H.
IEEE Internet of Things Journal, vol.11, no.12, pp.22183-22196, 2024 (SCI-Expanded)
- II. **Adaptive handover control parameters over voronoi-based 5G networks**
Tashan W., Shayea I. A. M., Sheikh M., ARSLAN H., El-Saleh A. A., Ali Saad S.
Engineering Science and Technology, an International Journal, vol.54, 2024 (SCI-Expanded)
- III. **6G and Beyond Wireless Channel Characteristics for Physical Layer Security: Opportunities and Challenges**
Kihero A. B., Furqan H. M., Sahin M., ARSLAN H.
IEEE Wireless Communications, vol.31, no.3, pp.295-301, 2024 (SCI-Expanded)
- IV. **Polarization-Based Multiplexing: Enabling Spectrum Efficient Joint Radar and Communication**
Naeem A., Delamou M., Amhoud E. M., ARSLAN H.
IEEE Wireless Communications Letters, vol.13, no.5, pp.1414-1418, 2024 (SCI-Expanded)
- V. **Pairwise Sequency Index Modulation With OTSM for Green and Robust Single-Carrier Communications**
Doosti-Aref A., Masouros C., Basar E., ARSLAN H.
IEEE Wireless Communications Letters, vol.13, no.4, pp.1083-1087, 2024 (SCI-Expanded)
- VI. **High Range Resolution at Reduced Sampling Rates in OFDM Systems Exploiting Pilot Aliasing**
Arous A., Zegrar S. E., ARSLAN H.
IEEE Wireless Communications Letters, vol.13, no.4, pp.1153-1157, 2024 (SCI-Expanded)
- VII. **A Novel HARQ Design for RSMA Networks**
Abidrabbu S., Ali S. R., ARSLAN H.
IEEE Internet of Things Journal, vol.11, no.7, pp.11907-11918, 2024 (SCI-Expanded)
- VIII. **A Novel Delay-Doppler-Based Channel Estimation Method in Doubly-Dispersive OCDM Systems**
Zegrar S. E., ARSLAN H.
IEEE Wireless Communications Letters, vol.13, no.3, pp.801-804, 2024 (SCI-Expanded)
- IX. **Orthogonal frequency division multiplexing: The Way Forward for 6G Physical Layer Design?**
Solaija M. S. J., Zegrar S. E., ARSLAN H.
IEEE Vehicular Technology Magazine, vol.19, no.1, pp.45-54, 2024 (SCI-Expanded)
- X. **OFDM-RSMA: Robust Transmission under Inter-Carrier Interference**
Sahin M. M., Dizdar O., Clerckx B., ARSLAN H.
IEEE Transactions on Communications, 2024 (SCI-Expanded)
- XI. **Waveform Management Approach With Machine Learning for 6G Systems**
DEMİR Y. İ., YAZAR A., ARSLAN H.
IEEE Transactions on Network and Service Management, 2024 (SCI-Expanded)
- XII. **Power-Efficient Time-Domain Scheduling for ISAC Beamforming**
MEMİŞOĞLU E., Janjua M. B., ARSLAN H.
IEEE Wireless Communications Letters, 2024 (SCI-Expanded)
- XIII. **Optimal Handover Optimization in Future Mobile Heterogeneous Network using Integrated Weighted and Fuzzy Logic Models**
Tashan W., Shayea I. A. M., Aldirmaz-Colak S., El-Saleh A. A., ARSLAN H.
IEEE Access, vol.12, pp.57082-57102, 2024 (SCI-Expanded)

- XIV. **Error performance enhancement and complexity reduction in OFDM systems via coordinate interleaving under practical impairments**
REŞAT M. A., Tusha A., Doğan Tusha S., ÖZYURT S., ARSLAN H.
Turkish Journal of Electrical Engineering and Computer Sciences, vol.32, no.1, pp.21-33, 2024 (SCI-Expanded)
- XV. **Service-Based Resource Scheduling Optimization for Multi-user OTFS Based Systems**
Jaradat A. M., Alayedi M., ARSLAN H.
IEEE Wireless Communications Letters, 2024 (SCI-Expanded)
- XVI. **OTFS-Based ISAC for Super-Resolution Range-Velocity Profile**
Zegrar S. E., Haif H., ARSLAN H.
IEEE Transactions on Communications, vol.72, no.7, pp.3934-3946, 2024 (SCI-Expanded)
- XVII. **Novel OCDM Transceiver Design for Doubly-dispersive Channels**
Haif H., Zegrar S. E., ARSLAN H.
IEEE Transactions on Vehicular Technology, vol.73, no.8, pp.11237-11248, 2024 (SCI-Expanded)
- XVIII. **How to Leverage Double-Structured Sparsity of RIS Channels to Boost Physical Layer Authentication**
Bendaimi A., Abdallah A., Celik A., Eltawil A., ARSLAN H.
IEEE Wireless Communications Letters, vol.13, no.8, pp.2260-2264, 2024 (SCI-Expanded)
- XIX. **Performance Analysis of OTSM under Hardware Impairments and Imperfect CSI**
Doosti-Aref A., Masouros C., Zhu X., Basar E., Coleri S., ARSLAN H.
IEEE Transactions on Vehicular Technology, 2024 (SCI-Expanded)
- XX. **A Novel Transceiver Design in Wideband Massive MIMO for Beam Squint Minimization**
Afeef L., Kihero A. B., ARSLAN H.
IEEE Transactions on Communications, vol.72, no.7, pp.4509-4522, 2024 (SCI-Expanded)
- XXI. **An IR-HARQ Based RSMA for Reliable and Low-Latency Communication**
Abidrabbu S., Ali S. R., Furqan H., ARSLAN H.
IEEE Transactions on Green Communications and Networking, 2024 (SCI-Expanded)
- XXII. **Multicarrier Rate-Splitting Multiple Access: Superiority of OFDM-RSMA over OFDMA and OFDM-NOMA**
Sahin M. M., Dizdar O., Clerckx B., ARSLAN H.
IEEE Communications Letters, vol.27, no.11, pp.3088-3092, 2023 (SCI-Expanded)
- XXIII. **Sequency Index Modulation: A Novel Modulation for Delay-Sequency Domain Waveforms**
Doosti-Aref A., Basar E., ARSLAN H.
IEEE Wireless Communications Letters, vol.12, no.11, pp.1911-1915, 2023 (SCI-Expanded)
- XXIV. **Waveform Design With Constellation Extension for OFDM Dual-Functional Radar-Communications**
Memisoglu E., Yllmaz T., ARSLAN H.
IEEE Transactions on Vehicular Technology, vol.72, no.11, pp.14245-14254, 2023 (SCI-Expanded)
- XXV. **PLS-IoT Enhancement against Eavesdropping via Spatially Distributed Constellation Obfuscation**
Salman H., ARSLAN H.
IEEE Wireless Communications Letters, vol.12, no.9, pp.1508-1512, 2023 (SCI-Expanded)
- XXVI. **Delay-Doppler Based Key Generation Using OTFS**
Solaija M. S. J., Zegrar S. E., ARSLAN H.
IEEE Wireless Communications Letters, vol.12, no.8, pp.1474-1478, 2023 (SCI-Expanded)
- XXVII. **Resource allocation optimization in multiuser OFDM relay-assisted underwater acoustic sensor networks**
Doosti-Aref A., ARSLAN H.
Vehicular Communications, vol.42, 2023 (SCI-Expanded)
- XXVIII. **Time-Frequency Warped Waveforms for Well-Contained Massive Machine Type Communications**
Ibrahim M., ARSLAN H., Çırpan H. A., Ekin S.
IEEE Journal on Selected Areas in Communications, vol.41, no.6, pp.1900-1917, 2023 (SCI-Expanded)
- XXIX. **CSI-based NOMA for Integrated Sensing and Communication**
Memisoglu E., Turkmen H., Ozbakis B. A., ARSLAN H.
IEEE Wireless Communications Letters, vol.12, no.6, pp.1086-1090, 2023 (SCI-Expanded)

- XXX. **Low Complex Inter-Doppler Interference Mitigation for OTFS Systems via Global Receiver Windowing**
Tusha A., ARSLAN H.
IEEE Transactions on Vehicular Technology, vol.72, no.6, pp.7685-7698, 2023 (SCI-Expanded)
- XXXI. **Composite Multiple-Mode Orthogonal Frequency Division Multiplexing with Index Modulation**
Li J., Dang S., Huang Y., Chen P., Qi X., Wen M., ARSLAN H.
IEEE Transactions on Wireless Communications, vol.22, no.6, pp.3748-3761, 2023 (SCI-Expanded)
- XXXII. **A Novel Cyclic Prefix Configuration for Enhanced Reliability and Spectral Efficiency in OTFS Systems**
Zegrar S. E., ARSLAN H.
IEEE Wireless Communications Letters, vol.12, no.5, pp.888-892, 2023 (SCI-Expanded)
- XXXIII. **Beamspace MIMO Systems With Reduced Beam Selection Complexity**
Cetinkaya S., ARSLAN H.
IEEE Communications Letters, vol.27, no.5, pp.1427-1431, 2023 (SCI-Expanded)
- XXXIV. **A Survey of Symbiotic Radio: Methodologies, Applications, and Future Directions**
Janjua M. B., ARSLAN H.
Sensors, vol.23, no.5, 2023 (SCI-Expanded)
- XXXV. **Beam Selection for Ambient Backscatter Communication in Beamspace mmWave Symbiotic Radio**
Janjua M. B., Abbas H. T., Qaraqe K. A., ARSLAN H.
IEEE Wireless Communications Letters, vol.12, no.3, pp.560-564, 2023 (SCI-Expanded)
- XXXVI. **Phase Rotation Approach with Mixed-Numerology Architecture for PAPR Reduction in 5G and Beyond**
Duranay A. E., Memisoglu E., Ozbakis B., ARSLAN H.
IEEE Access, vol.11, pp.48113-48122, 2023 (SCI-Expanded)
- XXXVII. **Physical Layer Security for Visible Light Communication in Reflected Indoor Environments With Inter-Symbol Interference**
ALBAYRAK C., Cetinkaya S., TÜRK K., ARSLAN H.
IEEE Transactions on Information Forensics and Security, vol.18, pp.2709-2722, 2023 (SCI-Expanded)
- XXXVIII. **Sparsifying Dictionary Learning for Beamspace Channel Representation and Estimation in Millimeter-Wave Massive MIMO**
Aygul M. A., Nazzal M., ARSLAN H.
IEEE Access, vol.11, pp.98436-98451, 2023 (SCI-Expanded)
- XXXIX. **A Comprehensive Experimental Emulation for OTFS Waveform RF-Impairments**
Abushattal A., Zegrar S. E., YAZGAN A., ARSLAN H.
Sensors, vol.23, no.1, 2023 (SCI-Expanded)
- XL. **Flexible Guard Structure for Timing Synchronization in Coordinated Networks**
Kihero A. B., Furqan H. M., ARSLAN H.
IEEE Communications Letters, vol.26, no.10, pp.2505-2509, 2022 (SCI-Expanded)
- XLI. **Exploiting User Diversity in OTFS Transmission for Beyond 5G Wireless Systems**
Tusha A., Althunibat S., Hasna M. O., Qaraqe K., ARSLAN H.
IEEE Wireless Communications Letters, vol.11, no.8, pp.1689-1693, 2022 (SCI-Expanded)
- XLII. **Common CP-OFDM Transceiver Design for Low-Complexity Frequency Domain Equalization**
Zegrar S. E., ARSLAN H.
IEEE Wireless Communications Letters, vol.11, no.7, pp.1349-1353, 2022 (SCI-Expanded)
- XLIII. **Physical Layer Authentication Scheme in Beamspace MIMO Systems**
Afeef L., Furqan H. M., ARSLAN H.
IEEE Communications Letters, vol.26, no.7, pp.1484-1488, 2022 (SCI-Expanded)
- XLIV. **Using OMP and SD algorithms together in mm-Wave mMIMO channel estimation**
Aygül M. A., Nazzal M., ARSLAN H.
Signal, Image and Video Processing, vol.16, no.5, pp.1205-1213, 2022 (SCI-Expanded)
- XLV. **IRS-Enabled Beam-Space Channel**
Alayasra M., ARSLAN H.

- IEEE Transactions on Wireless Communications, vol.21, no.6, pp.3822-3835, 2022 (SCI-Expanded)
- XLVI. **Channel Randomness-Based Adaptive Cyclic Prefix Selection for Secure OFDM System**
Naderi S., Costa D. B. D., ARSLAN H.
IEEE Wireless Communications Letters, vol.11, no.6, pp.1220-1224, 2022 (SCI-Expanded)
- XLVII. **Flexible Physical Layer Security for Joint Data and Pilots in Future Wireless Networks**
Zegrar S. E., Furqan H. M., ARSLAN H.
IEEE Transactions on Communications, vol.70, no.4, pp.2635-2647, 2022 (SCI-Expanded)
- XLVIII. **Energy and Spectral-Efficient Lens Antenna Subarray Design in MmWave MIMO Systems**
Afeef L., Mumcu G., ARSLAN H.
IEEE Access, vol.10, pp.75176-75185, 2022 (SCI-Expanded)
- XLIX. **Radar-Aided Communication Scheduling Algorithm for 5G and Beyond Networks**
Jaradat A. M., Naeem A., Saglam M. I., Kartal M., ARSLAN H.
IEEE Access, vol.10, pp.96403-96413, 2022 (SCI-Expanded)
- L. **Performance analysis of ofds under in-phase and quadrature imbalance at transmitter**
Tusha A., Dogan-Tusha S., Yilmaz F., Althunibat S., Qaraqe K., ARSLAN H.
IEEE Transactions on Vehicular Technology, vol.70, no.11, pp.11761-11771, 2021 (SCI-Expanded)
- LI. **Inter-numerology interference in OFDM-IM systems**
Dogan-Tusha S., Tusha A., Basar E., Althunibat S., Qaraqe K., ARSLAN H.
IET Communications, vol.15, no.15, pp.1941-1949, 2021 (SCI-Expanded)
- LII. **Comparison of Clinical and Laboratory Features and Treatment Options of 237 Symptomatic and Asymptomatic Children Infected with SARS-CoV-2 in the Early Phase of the COVID-19 Pandemic in Turkey.**
Soysal A., Gönüllü E., ARSLAN H., Kibar B. S., Pop S., Yurttas G. N., Demirbacak H., ÜNAL F., OKTEM S., Atıcı S., et al.
Japanese journal of infectious diseases, vol.74, no.4, pp.273-279, 2021 (SCI-Expanded)
- LIII. **Joint-Mapping Orthogonal Frequency Division Multiplexing with Subcarrier Number Modulation**
Wen M., Li J., Dang S., Li Q., Mumtaz S., ARSLAN H.
IEEE Transactions on Communications, vol.69, no.7, pp.4306-4318, 2021 (SCI-Expanded)
- LIV. **Numerology Scheduling for PAPR Reduction in Mixed Numerologies**
Memisoglu E., Duranay A. E., ARSLAN H.
IEEE Wireless Communications Letters, vol.10, no.6, pp.1197-1201, 2021 (SCI-Expanded)
- LV. **A Secure Downlink NOMA Scheme against Unknown Internal Eavesdroppers**
Abushattal A., Althunibat S., Qaraqe M., ARSLAN H.
IEEE Wireless Communications Letters, vol.10, no.6, pp.1281-1285, 2021 (SCI-Expanded)
- LVI. **Arraymetrics: Authentication through Chaotic Antenna Array Geometries**
Karabacak M., Peköz B., Mumcu G., ARSLAN H.
IEEE Communications Letters, vol.25, no.6, pp.1801-1804, 2021 (SCI-Expanded)
- LVII. **Multidimensional Index Modulation for 5G and beyond Wireless Networks**
Dogan Tusha S., Tusha A., Basar E., ARSLAN H.
Proceedings of the IEEE, vol.109, no.2, pp.170-199, 2021 (SCI-Expanded)
- LVIII. **New Physical Layer Key Generation Dimensions: Subcarrier Indices/Positions-Based Key Generation**
Furqan H. M., Hamamreh J. M., ARSLAN H.
IEEE Communications Letters, vol.25, no.1, pp.59-63, 2021 (SCI-Expanded)
- LIX. **Precoding Based Cross-Tier Interference Mitigation in Centralized-RAN**
Zegrar S. E., Duranay A. E., ARSLAN H.
IEEE Wireless Communications Letters, vol.10, no.1, pp.21-25, 2021 (SCI-Expanded)
- LX. **Flexible numerology in 5G NR: Interference quantification and proper selection depending on the scenario**
de Vargas J. F., Monserrat J. F., ARSLAN H.
Mobile Information Systems, vol.2021, 2021 (SCI-Expanded)
- LXI. **Wireless sensing – enabler of future wireless technologies**
Türkmen H., Solajja M. S. J., Tusha A., ARSLAN H.

- Turkish Journal of Electrical Engineering and Computer Sciences, vol.29, no.1, pp.1-17, 2021 (SCI-Expanded)
- LXII. **Generalized Coordinated Multipoint Framework for 5G and beyond**
Solajja M. S. J., Salman H., Kihero A. B., Saglam M. I., ARSLAN H.
IEEE Access, vol.9, pp.72499-72515, 2021 (SCI-Expanded)
- LXIII. **Efficient spectrum occupancy prediction exploiting multidimensional correlations through composite 2d-lstm models**
Aygül M. A., Nazzal M., Sağlam M. İ., da Costa D. B., Ateş H. F., ARSLAN H.
Sensors (Switzerland), vol.21, no.1, pp.1-18, 2021 (SCI-Expanded)
- LXIV. **Millimeter-wave propagation modeling and characterization at 32 GHz in indoor office for 5G networks**
Seker C., Guneser M. T., ARSLAN H.
International Journal of RF and Microwave Computer-Aided Engineering, vol.30, no.12, 2020 (SCI-Expanded)
- LXV. **Dynamic Sidelobe Multiplexing in BeamSpace MIMO Systems**
Karabacak M., Afeef L., Arslan H.
IEEE Wireless Communications Letters, vol.9, no.12, pp.2216-2219, 2020 (SCI-Expanded)
- LXVI. **Primary user emulation and jamming attack detection in cognitive radio via sparse coding**
Furqan H. M., Aygül M. A., Nazzal M., ARSLAN H.
Eurasip Journal on Wireless Communications and Networking, vol.2020, no.1, 2020 (SCI-Expanded)
- LXVII. **Joint Random Subcarrier Selection and Channel-Based Artificial Signal Design Aided PLS**
Naderi S., Da Costa D. B., ARSLAN H.
IEEE Wireless Communications Letters, vol.9, no.7, pp.976-980, 2020 (SCI-Expanded)
- LXVIII. **User Pairing and Power Allocation Strategies for 3D VLC-NOMA Systems**
Janjua M. B., Da Costa D. B., Arslan H.
IEEE Wireless Communications Letters, vol.9, no.6, pp.866-870, 2020 (SCI-Expanded)
- LXIX. **Reducing precoder/channel mismatch and enhancing secrecy in practical MIMO systems using artificial signals**
Pekoz B., Hafez M., Kose S., Arslan H.
IEEE Communications Letters, vol.24, no.6, pp.1347-1350, 2020 (SCI-Expanded)
- LXX. **Enhancing the Performance of Low Priority SUs Using Reserved Channels in CRN**
El-Toukhy A. T., ARSLAN H.
IEEE Wireless Communications Letters, vol.9, no.4, pp.513-517, 2020 (SCI-Expanded)
- LXXI. **Guard Band Reduction for 5G and beyond Multiple Numerologies**
Memisoglu E., Kihero A. B., Basar E., ARSLAN H.
IEEE Communications Letters, vol.24, no.3, pp.644-647, 2020 (SCI-Expanded)
- LXXII. **Editorial on Special Issue "Radio Access Technologies for Beyond 5G Wireless Networks"**
Basar E., Arslan H., Xiao Y.
Physical Communication, vol.38, 2020 (SCI-Expanded)
- LXXIII. **Extensionless Adaptive Transmitter and Receiver Windowing of beyond 5G Frames**
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Supported Projects

ARSLAN H., Wireless communication functionality embedded identity authentication and administration for secure authorization systems, Continues

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ARSLAN H., Ultra wideband Channel Modeling for Disaster and Emergency Rescue, Continues

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ARSLAN H., High Rate Wireless 5 GHz OFDM Impairments, Continues
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Memberships / Tasks in Scientific Organizations

National Academy of Inventors, Member, 2022 - Continues, United States Of America
Turkish Academy of Sciences, Principal Member, 2020 - Continues, Turkey
IEEE (Institute of Electrical and Electronics Engineers), Member, 2002 - Continues, United States Of America
The Scientific and Technological Research Council of Türkiye, Member of Science Committee, 2014 - 2017, Turkey

Scientific Research / Working Group Memberships

Communication, Signal Processing And Networking Center, Istanbul Medipol University, Türkiye,
<https://cosinc.medipol.edu.tr/>, 2014 - Continues
Ieee Communications Society, The Institute of Electrical and Electronics Engineers, Amerika Birleşik Devletleri,
<https://www.comsoc.org/>, 2002 - Continues

Scholarships

Higher Education Scholarship, YOK, 1994 - 1998

Awards

Arslan H., TUBITAK 100th Anniversary Science Award, Tübitak, December 2023

Arslan H., NAI Fellowship, National Academy Of Inventors, December 2022

Arslan H., International Academia Award, Türkiye Bilimler Akademisi, December 2017

Arslan H., IEEE Fellowship, The Institute Of Electrical And Electronics Engineers, January 2016

Arslan H., Outstanding Research Achievement Award, University Of South Florida, December 2011

Arslan H., Excellence in Innovation Award, University Of South Florida, October 2011

Arslan H., Innovative Teaching Grant, University Of South Florida, September 2004

Arslan H., USF New Researchers Award, University Of South Florida, August 2003

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Arslan H., Inventor of the Year, Ericsson, June 2000