#### Assoc. Prof. Afm Shahen SHAH

#### **Personal Information**

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#### International Researcher IDs

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Publons / Web Of Science ResearcherID: R-5735-2017

ScopusID: 57188670758 Yoksis Researcher ID: 399771

## **Biography**

AFM Shahen SHAH received his B.Sc. degree in Electronics and Telecommunication Engineering from the Daffodil International University, Bangladesh, in 2009. He completed his M.Sc. degree in Information Technology from the University of Dhaka, Bangladesh, in 2011. He received the Ph.D. degree in Electronics and Communication Engineering from the Yildiz Technical University, Turkey, in 2020. For his Ph.D. work, he won a gold medal at the 32nd International Invention, Innovation & Technology Exhibition (ITEX 2021). Now he is working as an Associate Professor in the Department of Electronics and Communication Engineering, Yildiz Technical University, Turkey. His current research interest includes wireless communication, artificial intelligence, cross-layer design, etc. He is an author of a book. He has published a good number of research papers in international conferences and journals. He is a senior member of IEEE since 2019. He has been a TPC member for several IEEE conferences and a regular reviewer for various IEEE journals. He is currently serving as an Editor of the Open Transportation Journal (Bentham) and Associate Editor of the Journal of Cyber Security Technology (Taylor & Francis).

## **Education Information**

Doctorate, Yildiz Technical University, Faculty Of Electrical & Electronics, Electronics And Communication Engineering, Turkey 2016 - 2020

Postgraduate, University of Dhaka, Institute of Information Technology (IIT), Information Technology, Bangladesh 2010 - 2011

Undergraduate, Daffodil International University, Engineering , Electronics and Telecommunication Engineering , Bangladesh 2006 - 2009

#### Foreign Languages

Turkish, C1 Advanced English, C1 Advanced Bengali, C2 Mastery

#### **Dissertations**

Doctorate, Designing and performance analysis of efficient and reliable medium access control protocols for vehicular

ad hoc networks, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, 2020 Postgraduate, Cooperative Communication in Wireless Networks, University of Dhaka, 2011

#### **Research Areas**

Communication Engineering, Signal Processing, Artificial Intelligence, Computer Learning and Pattern Recognition, Engineering and Technology

## **Academic Titles / Tasks**

Associate Professor, Yildiz Technical University, Faculty Of Electrical & Electronics, Electronics And Communication Engineering, 2023 - Continues

Assistant Professor, Yildiz Technical University, Faculty Of Electrical & Electronics, Electronics And Communication Engineering, 2021 - 2023

Assistant Professor, Istanbul Gelisim University, Faculty Of Engineering-Architecture, Department Of Electrical And Electronic Engineering, 2020 - 2021

#### Courses

#### **Doctorate**

Next Generation Wireless Communication Systems, Doctorate, 2021 - 2022 Cellular Communication System Planning and Optimization, Doctorate, 2021 - 2022

#### Undergraduate

Signals and Systems , Undergraduate, 2022 - 2023 Principles of Digital Communication Systems , Undergraduate, 2022 - 2023

Probability Theory, Undergraduate, 2021 - 2022

Digital Signal Processing, Undergraduate, 2021 - 2022

Communication 1, Undergraduate, 2021 - 2022

Cellular Communication Systems 1, Undergraduate, 2021 - 2022

## **Supervised Theses**

Shah A. F. M. S., Designing an effective MIMO antenna for 5G, Postgraduate, D.JASIM(Student), 2023

Shah A. S., Performance comparison of PEGASIS, HEED, and LEACH protocols in wireless sensor networks, Postgraduate, K.HAMEEDAH(Student), 2022

Shah A. S., Designing and Implementation of electronic Device controlled IoT for COVID 19 patients monitoring through secured communication system, Postgraduate, A.Hussein(Student), 2021

Shah A. S., Yeni Nesil Haberleşme Sistemleri İçin Çoklu Erişim Tekniklerinin Performans Değerlendirilmesi ve Karşılaştırılması, Postgraduate, A.Nidham(Student), 2021

## Published journal articles indexed by SCI, SSCI, and AHCI

I. A Survey on Fluid Antenna Multiple Access for 6G: A New Multiple Access Technology That Provides Great Diversity in a Small Space

Shah A. S., Karabulut M. A., Cinar E., Rabie K. M.

IEEE ACCESS, vol.12, pp.88410-88425, 2024 (SCI-Expanded)

II. A self-learning deep neural network for classification of breast histopathological images

Abdulaal A. H., Valizadeh M., Amirani M. C., SHAH A. F. M. S.

Biomedical Signal Processing and Control, vol.87, 2024 (SCI-Expanded)

III. Internet of Things and Wireless Sensor Networks for Smart Agriculture Applications- A Survey Mowla M. N., Mowla N., Shah A. F. M. S., Rabie K., Shongwe T.

IEEE ACCESS, vol.11, pp.1-40, 2023 (SCI-Expanded)

IV. Acne Vulgaris Detection and Classification: A Dual Integrated Deep CNN Model

Islam M. B., Junayed M. S., Sadeghzadeh A., Anjum N., Ahsan A., Shah A. F. M. S.

INFORMATICA: JOURNAL OF COMPUTING AND INFORMATICS, vol.47, no.4, pp.577-592, 2023 (SCI-Expanded)

V. Influence of Channel Fading and Capture for Performance Evaluation in Vehicular Communications Shah A. F. M. S., Karabulut M. A., İlhan H., Tureli U.

CANADIAN JOURNAL OF ELECTRICAL AND COMPUTER ENGINEERING, vol.46, no.4, pp.322-332, 2023 (SCI-Expanded)

VI. Inspecting VANET with Various Critical Aspects - A Systematic Review

Karabulut M. A., Shah A. F. M. S., Ilhan H., Pathan A. K., Atiquzzaman M.

AD HOC NETWORKS, vol.150, pp.1-18, 2023 (SCI-Expanded)

VII. The impact of cooperative unmanned aerial vehicles communication under Nakagami-m fading channel

Karabulut M. A., Shah A. F. M. S.

JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.38, no.4, pp.2095-2106, 2023 (SCI-Expanded)

VIII. On the Vital Aspects and Characteristics of Cryptocurrency - A Survey

Shah A. F. M. S., Karabulut M. A., Akhter A. F. M. S., Mustari N., Pathan A. K., Rabie K., Shongwe T.

IEEE ACCESS, vol.11, no.1, pp.1, 2023 (SCI-Expanded)

IX. Architecture of Emergency Communication Systems in Disasters through UAVs in 5G and Beyond Shah A. F. M. S.

DRONES, vol.7, no.1, pp.1-16, 2023 (SCI-Expanded)

X. A Novel MIMO-OFDM Based MAC Protocol for VANETs

Karabulut M. A., Shah A. S., Ilhan H.

IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS, vol.23, no.11, pp.20255-20267, 2022 (SCI-Expanded)

XI. A Blockchain-Based Emergency Message Transmission Protocol for Cooperative VANET

Ahmed M., Moustafa N., Akhter A. F. M. S., Razzak I., Anwar A., Shah A. F. M. S., Zengin A.

IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS, vol.23, no.10, pp.19624-19633, 2022 (SCI-Expanded)

XII. Optimizing Vehicular Safety Message Communications by Adopting Transmission Probability With CW Size

Shahen Shah A. S., Karabulut M. A., İlhan H., Tureli U.

IEEE ACCESS, vol.10, pp.118849-118857, 2022 (SCI-Expanded)

XIII. Blockchain in Vehicular Ad hoc Networks: Applications, Challenges and Solutions

Zengin A., Shah A. S., Anwar A., Akhter A. F. M. S., Ahmed M., Pathan A. S. K.

INTERNATIONAL JOURNAL OF SENSOR NETWORKS, vol.1, pp.1-21, 2022 (SCI-Expanded)

XIV. An efficient end-to-end deep neural network for interstitial lung diseaserecognition and classification

Junayed M. S., Jeny A. A., Islam M. B., Ahmed I., Shah A. S.

TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.30, pp.1235-1250, 2022 (SCI-Expanded)

XV. ScarNet: Development and Validation of a Novel Deep CNN Model for Acne Scar Classification with a New Dataset

Junayed M. S., Islam M. B., Jeny A. A., Sadeghzadeh A., Biswas T., Shah A. S.

IEEE Access, vol.9, no.1, pp.1-13, 2021 (SCI-Expanded)

XVI. A Secured Message Transmission Protocol for Vehicular Ad Hoc Networks

Akhter A. F. M. S., Shah A. S., Çavuşoğlu U., Zengin A.

Cmc-Computers Materials & Continua, vol.68, no.1, pp.229-246, 2021 (SCI-Expanded)

XVII. A Blockchain-Based Authentication Protocol for Cooperative Vehicular Ad Hoc Network Akhter A. F. M. S., Ahmed M., Shah A. S., Anwar A., Kayes A. S. M., Zengin A.

SENSORS, vol.21, no.4, 2021 (SCI-Expanded)

XVIII. Survey and Performance Evaluation of Multiple Access Schemes for Next-Generation Wireless Communication Systems

SHAH A. S., Qasim A. N., KARABULUT M. A., İLHAN H., Islam M. B.

IEEE ACCESS, vol.9, pp.113428-113442, 2021 (SCI-Expanded)

XIX. A Secured Privacy-Preserving Multi-Level Blockchain Framework for Cluster Based VANET

Akhter A. F. M. S., Ahmed M., Shah A. S., Anwar A., Zengin A.

SUSTAINABILITY, vol.13, no.1, 2021 (SCI-Expanded)

XX. Performance modeling and analysis of the IEEE 802.11 MAC protocol for VANETs

Karabulut M. A., Shah A. S., İlhan H.

Journal Of The Faculty Of Engineering And Architecture Of Gazi University, vol.35, no.3, pp.1575-1587, 2020 (SCI-Expanded)

XXI. OEC-MAC: A Novel OFDMA Based Efficient Cooperative MAC Protocol for VANETS

KARABULUT M. A., Shah A. S., İLHAN H.

IEEE ACCESS, vol.8, pp.94665-94677, 2020 (SCI-Expanded)

XXII. Performance Optimization of Cluster-Based MAC Protocol for VANETs

Shah A. S., KARABULUT M. A., İLHAN H., Tureli U.

IEEE ACCESS, vol.8, pp.167731-167738, 2020 (SCI-Expanded)

XXIII. RECV-MAC: a novel reliable and efficient cooperative MAC protocol for VANETs

Shah A. S., Ilhan H., Türeli M. S. U.

IET COMMUNICATIONS, vol.13, no.16, pp.2541-2549, 2019 (SCI-Expanded)

XXIV. CB-MAC: a novel cluster-based MAC protocol for VANETs

SHAH A. S., İLHAN H., Tureli U.

IET INTELLIGENT TRANSPORT SYSTEMS, vol.13, no.4, pp.587-595, 2019 (SCI-Expanded)

#### Articles Published in Other Journals

I. Unsupervised Histopathological Sub-Image Analysis for Breast Cancer Diagnosis Using Variational Autoencoders, Clustering, and Supervised Learning

Abdulaal A. H., Valizadeh M., Yassin R. A., Albaker B. M., Abdulwahhab A. H., Abdulwahhab A. H., Amirani M. C., SHAH A. S.

Journal of Engineering and Sustainable Development, vol.28, no.6, pp.729-744, 2024 (Scopus)

II. A Review on Machine Learning in Intelligent Transportation Systems Applications

Azad A. K., Atkison T., Shah A. S.

OPEN TRANSPORTATION JOURNAL, vol.18, pp.1-19, 2024 (Scopus)

III. A Study and Future Challenges in 6G Networks: Aeronautical Network, AI and Blockchain Karabulut M. A., Shah A. S.

Havacılık ve Uzay Teknolojileri Dergisi, vol.17, no.2, pp.122-138, 2024 (Peer-Reviewed Journal)

IV. A Study and Future Challenges in 6G Networks: Aeronautical Network, AI and Blockchain Karabulut M. A., Shah A. S.

Journal of Aeronautics and Space Technologies (JAST), vol.17, no.2, pp.122-138, 2024 (Peer-Reviewed Journal)

V. MLMSign: Multi-lingual multi-modal illumination-invariant sign language recognition Sadeghzadeh A., Shah A. F. M. S., Islam M. B.

Intelligent Systems with Applications, vol.22, pp.1-22, 2024 (Scopus)

VI. Enhancing Breast Cancer Classification using a Modified GoogLeNet Architecture with Attention Mechanism

Abdulaal A. H., Valizadeh M., Albaker B. M., Yassin R. A., Amirani M. C., Shah A. F. M. S.

Al-Iraqia Journal for Scientific Engineering Research (IJSER), vol.3, no.1, pp.47-63, 2024 (Peer-Reviewed Journal)

VII. Developing and Implementing an IoT Managed by Electronic Devices for Covid Patient Monitoring via a Secured Communication System

ABDULAAL A. H., Shah A. F. M. S., Karabulut M. A.

Sakarya Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.28, no.1, pp.85-100, 2024 (Peer-Reviewed Journal)

VIII. Cooperative THz Communication for UAVs in 6G and Beyond

Mustari N., Karabulut M. A., Shah A. F. M. S., Türeli M. S. U.

Elsevier Green Energy and Intelligent Transportation, vol.3, no.1, pp.1-7, 2024 (Scopus)

IX. Multiple Access Schemes for 6G Enabled NTN-Assisted IoT Technologies: Recent Developments, Prospects and Challenges

Shah A. F. M. S., Karabulut M. A., Rabie K.

IEEE Internet of Things Magazine, vol.7, no.1, pp.48-54, 2024 (Peer-Reviewed Journal)

X. A Comprehensive Study on Cellular Evolution from 1G to 6G

Mustari N., Karabulut M. A., Shah A. F. M. S., Türeli U.

JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.26, pp.1-23, 2023 (ESCI)

XI. Performance Comparison of PEGASIS, HEED and LEACH Protocols in Wireless Sensor Networks AL - GBURI K. H. A., SHAH A. S.

Celal Bayar Üniversitesi Fen Bilimleri Dergisi, vol.19, no.1, pp.11-18, 2023 (Peer-Reviewed Journal)

XII. Terahertz Communication with MIMO-OFDM in FANETs for 6G

Mustari N., Karabulut M. A., SHAH A. F. M. S., Tureli U.

Open Transportation Journal, vol.17, 2023 (Scopus)

XIII. Reliability estimation for drone communications by using an MLP-based model

Shah A. S., Karabulut M. A.

International Advanced Researches and Engineering Journal, vol.6, no.3, pp.1-7, 2022 (Peer-Reviewed Journal)

XIV. NM-LEACH: A Novel Modified LEACH Protocol to Improve Performance in WSN

Abdulaal A. H., SHAH A. S., Pathan A. K.

International Journal of Communication Networks and Information Security, vol.14, no.1, pp.1-10, 2022 (Scopus)

XV. Optimization of drones communication by using meta-heuristic optimization algorithms

Shah A. S., Karabulut M. A.

Sigma Journal of Engineering and Natural Sciences, vol.40, no.1, pp.108-117, 2022 (ESCI)

XVI. A Survey on Cooperative Communication in Wireless Networks

Shah A. S., Islam M. S.

International Journal of Intelligent Systems and Applications (IJISA), vol.6, no.7, pp.66-78, 2014 (Peer-Reviewed Journal)

XVII. CSCM: A Contention Sensitive Routing Metric for Efficient Cooperative Communication in Multi-Hop Wireless Networks

Shah A. F. M. S., Islam M. S.

International Journal on Internet and Distributed Computing Systems, vol.2, no.2, pp.157-163, 2012 (Peer-Reviewed Journal)

XVIII. High Performance Analysis of Frequency Reuse Schemes in Cellular Mobile Environment

Haque A. F., Shah A. F. M. S., Hannan M. A., Jahan N., Ahmed J. U., Saleh M. A.

International Journal of Latest Trends in Computing, vol.2, no.1, pp.29-34, 2011 (Peer-Reviewed Journal)

## Books

I. DF based cooperative UAVs communication with co-channel interference

Karabulut M. A., Shah A. F. M. S.

in: International Research in Engineering Sciences, Assoc. Prof. Dr. Alper BİDECİ, Editor, Platanus Publishing, Ankara, pp.290-303, 2023

II. Industry 5.0: A Study on Supporting Technology Systems, Applications, and Future Directions Shah A. S., Karabulut M. A.

in: International Academic Research and Reviews in Engineering, Prof. Dr. Coşkun ÖZALP,Doç. Dr. Selahattin BARDAK,Doç. Dr. Ertaç HÜRDOĞAN, Editor, Serüven Publishing, Ankara, pp.153-168, 2023

III. Cooperative Communication In Wireless Networks

Shah A. S., Islam M. S., Alam M. S.

LAMBERT Academic Publishing, Saarbrücken, 2013

## Papers Published in Refereed Scientific Meetings

I. Performance Investigation of UAVs Ad Hoc Networks with 3D Markov Chain Model

Uddin S., KARABULUT M. A., SHAH A. S., İLHAN H.

IEEE 6th International Conference on Communications, Signal Processing, and their Applications (ICCSPA), İstanbul, Turkey, 8 - 11 July 2024, pp.1-5

II. Modulation Classifier Based on Deep Learning for Beyond 5G Communications

Kaya O., Karabulut M. A., Shah A. S., Ilhan H.

IEEE 47th International Conference on Telecommunications and Signal Processing (TSP), Praha, Czech Republic, 10 - 12 July 2024, pp.336-339

III. Improvement of Emergency Communication Systems Using Drones in 5G and Beyond for Safety Applications

SHAH A. S., KARABULUT M. A., Rabie K.

IEEE Future Networks World Forum (FNWF), Baltimore, United States Of America, 13 - 15 November 2023, pp.1-6

IV. Mission-Critical Internet of Things on the 6G Network: Services and Apps with Networking Architecture

Shah A. F. M. S., Karabulut M. A., Rabie K.

IEEE 98th Vehicular Technology Conference (VTC2023-Fall), Kowloon, Hong Kong, 10 - 13 October 2023, pp.1-5

V. Analyzing IEEE 802.11ax: The Standard for The Next Generation WLANs

Shah A. F. M. S., Karabulut M. A.

The 16th International Scientific Research Congress - Science and Engineering (UBAK), Ankara, Turkey, 11 - 12 March 2023, pp.53-60

VI. OFDMA Based UAVs Communication for Ensuring QoS

KARABULUT M. A., SHAH A. S., ISLAM M. B., Rana M. E.

International Conference on Advances and Applications of Artificial Intelligence & Damp; Machine Learning (ICAAAIML-2021), India, 30 October 2021

VII. A Survey From 1G to 5G Including the Advent of 6G: Architectures, Multiple Access Techniques, and Emerging Technologies

Shah A. S.

IEEE 12th Annual Computing and Communication Workshop and Conference (CCWC), Nevada, United States Of America, 26 - 29 January 2022, pp.1117-1123

VIII. Deep Convolutional Neural Networks-Based Sign Language Recognition System

Yemenoğlu İ. H., Shah A. S., İlhan H.

The 12th Annual IEEE Information Technology, Electronics and Mobile Communication Conference (IEEE IEMCON 2021), Vancouver, Canada, 27 - 30 October 2021, pp.1-4

IX. Machine Vision-based Expert System for Automated Cucumber Diseases Recognition and

Jeny A. A., Junayed M. S., Islam M. B., Imani H., Shah A. S.

IEEE International Conference on INnovations in Intelligent SysTems and Applications (INISTA), Kocaeli, Turkey, 25 - 27 August 2021, pp.1-6

X. Improvement of performance with MIMO Enabled MAC Protocol for VANETs

Karabulut M. A., Shah A. S., İlhan H.

IEEE The Innovations in Intelligent Systems and Applications Conference (ASYU), İstanbul, Turkey, 15 - 17 October 2020, pp.1-4

# XI. Performance of the CR-MAC with Channel Fading and Capture Effect under Practical Traffic Scenarios for VANETs

Karabulut M. A., Shah A. S., İlhan H.

IEEE 10th Annual Ubiquitous Computing, Electronics Mobile Communication Conference (UEMCON), New York, United States Of America, 10 - 12 October 2019, pp.647-652

#### XII. Performance and Complexity Analysis of MAC Protocol for VANETs

Shah A. S., İLHAN H., TÜRELİ M. S. U.

2019 IEEE 10th Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON), Vancouver, BC, Canada, 17 - 19 October 2019

#### XIII. Designing and Analysis of IEEE 802.11 MAC for UAVs Ad Hoc Networks

Shah A. S., İlhan H., Türeli M. S. U.

IEEE 10th IEEE Annual Ubiquitous Computing, Electronics & Mobile Communication Conference (UEMCON), New York, United States Of America, 10 - 12 October 2019, pp.934-939

### XIV. Performance Optimization by Using Artificial Neural Network Algorithms in VANETs

Karabulut M. A., Shah A. S., İlhan H.

IEEE 42nd International Conference on Telecommunications and Signal Processing (TSP), Budapest, Hungary, 1 - 03 July 2019, pp.633-636

# XV. Modeling and Performance Analysis of the IEEE 802.11 MAC for VANETs under Channel Fading and Capture Effect

Shah A. S., İlhan H., Türeli M. S. U.

IEEE International Symposium on INnovations in Intelligent SysTems and Applications (INISTA), Sofija, Bulgaria, 3 - 05 July 2019, pp.1-6

#### XVI. CoMACAV: Cooperative MAC protocol for autonomous vehicles

Karabulut M. A., Shah A. S., İlhan H.

IEEE International Symposium on Innovations in Intelligent Systems and Applications (INISTA), Sofija, Bulgaria, 3 - 05 July 2019, pp.1-5

# XVII. Modeling and Performance Analysis of the IEEE 802.11 MAC for VANETs under Capture Effect Shah A. S., İlhan H., Türeli M. S. U.

IEEE Wireless and Microwave Technology Conference (WAMICON), Florida, United States Of America, 8 - 09 April 2019, pp.1-5

### XVIII. CR-MAC: Cooperative relaying MAC protocol for VANETs

Karabulut M. A., Shahen Shah A. S., İlhan H.

2019 Scientific Meeting on Electrical-Electronics and Biomedical Engineering and Computer Science, EBBT 2019, İstanbul, Turkey, 24 - 26 April 2019

#### XIX. Performance analysis of the IEEE 802.11p for different packet length in VANETs

Toker O., Shah A. S., TÜRELİ M. S. U.

10th International Multi-Conference on Complexity, Informatics and Cybernetics, IMCIC 2019, Florida, United States Of America, 12 - 15 March 2019, vol.1, pp.171-176

## XX. Modeling and Performance Analysis of the IEEE 802.11p MAC for VANETs

SHAH A. S., İLHAN H., TÜRELİ M. S. U.

42nd International Conference on Telecommunications and Signal Processing (TSP), Budapest, Hungary, 1 - 03 July 2019, pp.393-396

### XXI. Performance Modeling and Analysis of the IEEE 802.11 EDCAF for VANETs

Shah A. F. M. S., Karabulut M. A., İlhan H.

Intelligent Systems Conference (IntelliSys 2018), London, England, 6 - 07 September 2018, pp.34-46

## XXII. The Performance of the IEEE 802.11 DCF for Different Contention Window in VANETs

Karabulut M. A., Shahen Shah A. S., İlhan H.

41st International Conference on Telecommunications and Signal Processing, TSP 2018, Athens, Greece, 4 - 06 July 2018

XXIII. The IEEE 802.11p Performance for Different Packet Length and Arrival Rate in VANETs

Toker O., SHAH A. S., TÜRELİ M. S. U.

The 14th Advanced International Conference on Telecommunications (AICT), Barcelona, Spain, 22 - 26 July 2018

XXIV. qCB-MAC: QoS Aware Cluster-Based MAC Protocol for VANETs

SHAH A. S., İLHAN H., TÜRELİ M. S. U.

Computing Conference 2018, England, 10 July 2018

XXV. The effect of contention window size of the IEEE 802.11 dcf for VANETs VANET'ler için IEEE 802.11 DCF'in çekişme penceresi boyutu üzerindeki etkisi

Karabulut M. A., Shah A. S., İlhan H.

26th IEEE Signal Processing and Communications Applications Conference, SIU 2018, İzmir, Turkey, 2 - 05 May 2018, pp.1-4

XXVI. Performance modeling and analysis of the IEEE 802.11 DCF for VANETS

Karabulut M. A., Shahen Shah A. S., İlhan H.

9th International Congress on Ultra Modern Telecommunications and Control Systems and Workshops, ICUMT 2017, Munich, Germany, 6 - 08 November 2017, pp.346-351

XXVII. On-Line Energy Management Strategy for Hybrid Electric Vehicle Based on AMPC

Jun M., SHAH A. S., BAYSAL M., İLHAN H.

IEEE 10th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 30 November - 02 December 2017

XXVIII. Modeling and Performance Analysis of the IEEE 802.11P Enhanced Distributed Channel Access Function for Vehicular Network

SHAH A. S., Mustari N.

Future Technologies Conference (FTC), San-Francisco, Costa Rica, 6 - 07 December 2016, pp.173-178

XXIX. A New Cooperative MAC Protocol for The Distributed Wireless Networks

Shah A. S., Alam M. S., Showkat S. A.

IEEE Region 10 Conference (Tencon), Macau, China, 1 - 04 November 2015, pp.1-6

## **Supported Projects**

Shah A. S., TUBITAK Project, Intelligent reflecting surface assisted Fluid Antenna Multiple Access with MIMO using artificial intelligence for 6G, 2024 - 2027

Shah A. S., TUBITAK Project, Designing Cluster-based Cooperative Massive MIMO enabled Hybrid MAC Protocol for Reliable and Efficient UAVs Communication in 5G and beyond through Artificial Intelligence, 2023 - 2026

Shah A. F. M. S., İlhan H., Project Supported by Higher Education Institutions, Real-Time Turkish Sign Language Recognition System Based on Deep Learning, 2023 - 2025

Ilhan H., TUBITAK Project, An efficient and reliable cooperative MAC protocol for mobility aware cluster-based VANETs, 2019 - 2020

İlhan H., Shah A. S., Project Supported by Higher Education Institutions, Novel cooperative MAC protocols for vehicular networks, 2018 - 2020

### Activities in Scientific Journals

IECE Transactions on Mobile and Wireless Intelligence , First Editor, 2025 - Continues Discover Vehicles, Editor, 2025 - Continues ICRRD Quality Index Research Journal, First Editor, 2024 - Continues OPEN TRANSPORTATION JOURNAL, Editor, 2023 - Continues Journal of Cyber Security Technology, Editor, 2023 - Continues

## Memberships / Tasks in Scientific Organizations

Institute of Electrical and Electronics Engineers (IEEE), Member, 2017 - Continues, United States Of America Institution of Engineers Bangladesh (IEB), Member, 2014 - Continues, Bangladesh

#### Peer Reviews in Scientific Publications

CONCURRENCY COMPUTATION PRACTICE AND EXPERIENCE, Journal Indexed in SCI-E, January 2022

IEEE INTERNET OF THINGS JOURNAL, Journal Indexed in SCI-E, January 2022

ELECTRONICS (Basel), Journal Indexed in SCI-E, January 2022

WIRELESS NETWORKS, Journal Indexed in SCI-E, January 2022

APPLIED SCIENCES, Journal Indexed in SCI-E, January 2022

SENSORS, Journal Indexed in SCI-E, January 2022

DRONES, Journal Indexed in SCI-E, January 2022

ENTROPY, Journal Indexed in SCI-E, January 2022

IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS, Journal Indexed in SCI-E, January 2021

IEEE COMMUNICATIONS LETTERS, Journal Indexed in SCI-E, January 2021

IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, Journal Indexed in SCI-E, January 2021

IET COMMUNICATIONS, Journal Indexed in SCI-E, January 2020

IEEE ACCESS, Journal Indexed in SCI-E, January 2020

IET SOFTWARE, Journal Indexed in SCI-E, January 2019

IET INTELLIGENT TRANSPORT SYSTEMS, Journal Indexed in SCI-E, January 2019

#### **Metrics**

Publication: 74 Citation (WoS): 146 Citation (Scopus): 383 H-Index (WoS): 7

H-Index (Scopus): 11

## **Scholarships**

Scholar, TUBITAK, 2019 - 2020

Turkey Government Scholarship, Other International Organizations, 2015 - 2020

#### **Awards**

Shah A. S., Karabulut M. A., İlhan H., Türeli M. S. U., GOLD MEDAL, The 32Nd International Invention, Innovation & Technology Exhibition (Itex) 2021, Aralık 2021, December 2021