

Your Name
Curriculum Vitae

Personal Details

Name: Korhan Cengiz

Nationality: Turkish

Marital Status: Married

Address: University of Khorfakkan, Sharjah, UAE

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Academic Qualifications

- **2016 - PhD** in Electronics Engineering, Kadir Has University, Istanbul, Turkey.
- **2010 - MSc** in Electronics and Communication Engineering, Namik Kemal University, Tekirdag, Turkey
- **2008 - BSc** in Electronics and Communication Engineering, Kocaeli University, Kocaeli, Turkey
- **2010 - BSc** in Business Administration, Anadolu University, Eskisehir, Turkey

Employment History

- Jan. 2026 - Present, Associate Professor, College of Computing and Intelligent Systems, University of Khorfakkan, UAE
- Jan. 2025 - Jan. 2026, Associate Research Professor, Department of Electrical Engineering, Prince Mohammad Bin Fahd University, KSA
- Sept. 2023 - Sept. 2024, Dean of Research, University of Fujairah, UAE
- Aug. 2021 - Dec. 2024, Assistant Professor, University of Fujairah, UAE
- Jan. 2018 - Aug. 2021, Assistant Professor, Trakya University, Turkey
- Sept. 2013 - Jan. 2018, Lecturer, Trakya University, Turkey
- Sept. 2009 - Sept. 2013, Research Assistant, Namik Kemal University, Turkey
- Sept. 2008 - Sept. 2009, RF Planning Engineer, Turk Telekom, Turkey

Professional Membership & Activities

- Senior Member, Institute of Electrical and Electronics Engineers (IEEE), US
- Scientific Committee Member, Tubitak, Turkey

Teaching Experience

Graduate Courses

PhD Courses:

- Random Variables Theory, Trakya University, Turkey
- Wireless Communications, Trakya University, Turkey
- Information Theory and Coding, Arel University (Visiting Professor), Turkey

MSc Courses:

- Probability and Random Process, Prince Mohammad Bin Fahd University, KSA
- Digital Signal Processing, Trakya University, Turkey
- Communication Systems, Trakya University, Turkey

Undergraduate Courses

- Fundamentals of Electronics and Digital Systems, University of Khorfakkan, UAE
- Programming II, University of Khorfakkan, UAE
- Network Design and Management, University of Fujairah, UAE
- Computer Organization and Architecture, University of Fujairah, UAE
- System Analysis and Design, University of Fujairah, UAE
- IT Forensics, University of Fujairah, UAE
- Capstone Project, University of Fujairah, UAE
- Wireless Networking, University of Fujairah, UAE
- Electronics, Amity University Dubai (Visiting Professor), UAE
- Computer Networks, University of Zagreb (Visiting Professor), Croatia
- Digital Signal Processing, Ilia State University (Visiting Professor), Georgia
- Digital Communications, Trakya University, Turkey
- Signals and Systems, Trakya University, Turkey

Conferences & Workshops

- Publication Chair, 3rd IEEE International Conference on Advances in Electrical, Electronics, Energy, and Computer Sciences, Ankara, Turkey, 2026
- Publication Chair, 4th IEEE Cognitive Models and Artificial Intelligence Conference, Prague, Czech Republic, 2026

- Technical Program Chair, 2nd IEEE International Symposium on AI-Driven Engineering Systems, Mbale, Uganda, 2026
- Publication Chair, 9th International Symposium on Innovative Approaches in Smart Technologies, Gaziantep, Turkey, 2025
- Publication Chair, 7th IEEE International Congress on Human-Computer Interaction, Optimization and Robotic Applications, Ankara, Turkey, 2025
- Publication Chair, 2nd International Conference on Advances in Electrical-Electronics Engineering and Computer Science, Skopje, North Macedonia, 2025

Research Interests

- Internet of Things
- 6G Communications
- 5G Communications
- Indoor Positioning Systems
- Wireless Networks
- Cyber Security
- Network Security
- Wireless Sensor Networks
- Power Engineering

Research Publications (Books, Journals & Conferences papers)

SCI, SCI-E Journal Articles

1. **K. Cengiz**, "Comprehensive Analysis on Least Squares Lateration for Indoor Positioning Systems", **IEEE Internet of Things Journal**, vol. 8, no. 4, pp. 2842-2856, 2021, **IF: 8.9 (Q1)**.
2. M. Zaman, S. Ahmad, R. Ahmad, A. S. Al Shamayleh, D. Nimma, N. Ivkovic, **K. Cengiz** and A. Akhunzada, "Flight into the Future: A Holistic Review of AI-Trends, Vision, and Challenges in Drones Technology", **Artificial Intelligence Review** (to appear), Springer, **IF: 13.9 (Q1)**.
3. D. K. Sah, S. Almujaivel, **K. Cengiz** and I. Alrashdi, "Energy-Efficient Task Allocation for IIoT Deep Learning Applications: An Embedded Edge Clusters Solution", **IEEE Internet of Things Journal** (to appear), **IF: 8.9 (Q1)**.
4. K. A. Awan, S. Khan, **K. Cengiz**, H. Song and I. Alrashdi, "MediNet: Self-Supervised

- Framework for Multimodal Analysis and Patient Care in IoMT", **IEEE Internet of Things Journal** (to appear), **IF: 8.9 (Q1)**.
5. P. Mishra, N. Ivkovic, S. Lipsa, R. K. Dash and **K. Cengiz**, "QLB-IoT: Intelligent and Trust-Aware Routing for IoT-Edge Networks with Blockchain-Assisted Q-Learning", **IEEE Internet of Things Journal** (to appear), **IF: 8.9 (Q1)**.
 6. A. Rehman, K. A. Awan, M. U. Hassan, A. Shaikh, A. Alqazzaz and **K. Cengiz**, "CLAF-IoT: Context-Aware LLMs-Enhanced Authentication Framework for Internet of Things", **IEEE Internet of Things Journal** (to appear), **IF: 8.9 (Q1)**.
 7. M. A. Naeem, T. N. Nguyen, R. Ali, **K. Cengiz**, Y. Meng and T. Khurshaid, "Hybrid Cache Management in IoT-based Named Data Networking", **IEEE Internet of Things Journal**, vol. 9, no. 10, pp. 7140-7150, 2022, **IF: 8.9 (Q1)**.
 8. F. Alserhani, K. A. Awan, A. Alsirhani, N. Almashfi and **K. Cengiz**, "ANEF: Adversarial Neural Encryption Framework for Secured Consumer Electronics in Smart Cities", **IEEE Transactions on Consumer Electronics** (to appear), **IF: 10.9 (Q1)**.
 9. A. Rehman, **K. Cengiz**, S. Ali and K. Awan, "H-SecNet: Lightweight and Adaptable Security Framework for IoT-Integrated Consumer Electronics", **IEEE Transactions on Consumer Electronics** (to appear), **IF: 10.9 (Q1)**.
 10. R. Kumari, D. K. Sah, S. Gupta, **K. Cengiz** and N. Ivkovic, "Advancing Medical Recommendations with Federated Learning on Decentralized Data: A Roadmap for Implementation", **IEEE Transactions on Consumer Electronics** (to appear), **IF: 10.9 (Q1)**.
 11. K. A. Awan, **K. Cengiz**, I. Alrashdi, M. Abdelhaq, M. Uddin, H. Alsufyani, R. Alsaqour and C. Iwendi, "PrivNet-Generative AI-Augmented Quantum Privacy Framework for Vehicular Networks", **IEEE Transactions on Intelligent Transportation Systems** (to appear), **IF: 8.36 (Q1)**.
 12. G. Dhiman, D. Oliva, A. Kaur, K. K. Singh, S. Vimal, A. Sharma and **K. Cengiz**, "BEPO: A Novel Binary Emperor Penguin Optimizer for Automatic Feature Selection", **Knowledge – Based Systems**, Elsevier, vol. 211, 2021, **IF: 7.6 (Q1)**.
 13. G. Dhiman, K. K. Singh, M. Soni, A. Nagar, M. Dehghani, A. Slowik, A. Kaur, A. Sharma, E. H. Houssein and **K. Cengiz**, "MOSOA: A New Multi-Objective Seagull Optimization Algorithm", **Expert Systems with Applications**, Elsevier, vol. 167, 2021, **IF: 7.5 (Q1)**.

14. D. K. Sah, T. Amgoth and **K. Cengiz**, "Energy Efficient Medium Access Control Protocol for Data Collection in Wireless Sensor Network: A Q-learning approach", Sustainable Energy Technologies and Assessments, Elsevier (to appear), **IF: 7.0 (Q2)**.
15. R. Kumari, D. K. Sah, **K. Cengiz**, N. Ivkovic, A. Gehlot and B. Salah, "Acoustic signal based indigenous real-time rainfall monitoring system for sustainable environment", Sustainable Energy Technologies and Assessments, Elsevier (to appear), **IF: 7.0 (Q2)**.
16. Poongodi M., T. N. Nguyen, M. Hamdi and **K. Cengiz**, "Global Cryptocurrency Trend Prediction Using Social Media", Information Processing & Management, Elsevier, vol. 58, no. 6, 2021, **IF: 6.9 (Q1)**.
17. K. A. Awan, A. M. Alqahtani, **K. Cengiz**, A. Alshammari and I. Alrashdi, "EmoSyn: Adaptive Emotion Framework for Sentiment Analysis and Internet of Medical Things", IEEE Journal of Biomedical and Health Informatics (to appear), **IF: 6.8 (Q1)**.
18. Z. Sabir, M. A. Z. Raja, D. Baleanu, **K. Cengiz** and M. Shoaib, "Design of Gudermannian Neuroswarming to solve the singular Emden–Fowler nonlinear model numerically", Nonlinear Dynamics, Springer, vol. 106, pp. 3199-3214, 2021, **IF: 6 (Q1)**.
19. P. UM, K. Kottursamy, **K. Cengiz**, U. Kose and B. T. Hung, "4x- Expert systems for Early Predication of Osteoporosis Using Multi-Model Algorithms", Measurement, Elsevier, vol. 180, 2021, **IF: 5.6 (Q1)**.
20. Vijayalakshmi P., T. N. Nguyen, A. Dinakaran and **K. Cengiz**, "Towards sustainable energy efficient routing for dynamic ad-hoc communications in smart cities", Measurement, Elsevier, vol. 189, 2022, **IF: 5.6 (Q1)**.
21. D. K. Sah, C. Ravindra, **K. Cengiz**, Y. Alshehri, N. Alnazzawi and N. Ivkovic, "Early Alert for Sleep Deprivation Using Mobile Sensor Data Fusion", Computers & Electrical Engineering, Elsevier (to appear), **IF: 4.9 (Q1)**.
22. J. Subramani, T. N. Nguyen, A. Maria, A. S. Rajasekaran and **K. Cengiz**, "Lightweight Batch Authentication and Privacy-Preserving Scheme for Online Education System", Computers & Electrical Engineering, Elsevier, vol. 96, 2021, **IF: 4.9 (Q1)**.
23. R. K. Dash, **K. Cengiz**, Y. A. Alshehri and N. Alnazzawi, "A reliable and intelligent model for deployment of sensor nodes for IoT application", Computers & Electrical Engineering, Elsevier, vol. 101, 2022, **IF: 4.9 (Q1)**.
24. K. K. Singh, P. Yadav, A. Singh, G. Dhiman and **K. Cengiz**, "Cooperative Spectrum

- Sensing Optimization for Cognitive Radio in 6G Networks", Computers & Electrical Engineering, Elsevier, vol. 95, 2021, **IF: 4.9 (Q1)**.
25. D. K. Sah, T. N. Nguyen, M. Kandulna, **K. Cengiz** and T. Amgoth, "3D Localization and Error Minimization in Underwater Sensor Networks", ACM Transactions on Sensor Networks (to appear), **IF: 4.7 (Q1)**.
 26. D. K. Sah, T. Amgoth, **K. Cengiz**, Y. Alshehri and N. Alnazzawi, "TDMA policy to optimize resource utilization in Wireless Sensor Networks using reinforcement learning for ambient environment", Computer Communications, Elsevier, vol. 195, pp. 162-172, 2022, **IF: 4.3 (Q2)**.
 27. A. Nauman, M. A. Jamshed, R. Ali, **K. Cengiz**, Zulqarnaina and S. W. Kima, "Reinforcement Learning-Enabled Intelligent Device-to-Device (I-D2D) Communication in Narrowband Internet of Things (NB-IoT)", Computer Communications, Elsevier, vol. 176, pp. 13-22, 2021, **IF: 4.3 (Q2)**.
 28. D. K. Saha, **K. Cengiz**, P. K. Donta, V. N. Inukollu and T. Amgothe, "EDGF: Empirical Dataset Generation Framework for Wireless Sensor Networks", Computer Communications, Elsevier, vol. 180, pp. 48-56, 2021, **IF: 4.3 (Q2)**.
 29. D. Gautam, S. Prajapat, P. Kumar, A. K. Das, **K. Cengiz** and W. Susilo, "Blockchain-assisted post-quantum privacy-preserving public auditing scheme to secure multimedia data in cloud storage", Cluster Computing, Springer, 2024, **IF: 4.1 (Q1)**.
 30. D. K. Sah, T. N. Nguyen, K. Cengiz, B. Dumba and V. Kumar, "Load-balance Scheduling for Intelligent Sensors Deployment in Industrial Internet of Things", Cluster Computing, Springer, vol. 25, pp. 1715-1727, 2022, **IF: 4.1 (Q1)**.
 31. K. Seyhan, T. N. Nguyen, S. Akleylek and **K. Cengiz**, "Lattice-based Cryptosystems for the Security of Resource-Constrained IoT Devices in Post-Quantum World: A Survey", Cluster Computing, Springer, vol. 25, pp. 1729-1748, 2022, **IF: 4.1 (Q1)**.
 32. K. Seyhan, T. N. Nguyen, S. Akleylek, **K. Cengiz** and S.K. H. Islam, "Bi-GISIS KE: Modified key exchange protocol with reusable keys for IoT security", Journal of Information Security and Applications, Elsevier, vol. 58, 2021, **IF: 3.7 (Q2)**.
 33. **K. Cengiz**, "Very High Step-Up Converter with Switched Capacitor and Coupled Inductor", Arabian Journal for Science and Engineering, vol. 3, pp. 1777-1783, 2020, **IF: 2.9 (Q2)**.

34. A. K. Podder, A. Al Bukhari, S. Islam, S. Mia, M. A. Mohammed, N. M. Kumar, **K. Cengiz** and K. H. Abdulkareem, "IoT based Smart AgroTech System for Verification of Urban Farming Parameters", *Microprocessors and Microsystems*, Elsevier, vol. 82, 2021, **IF: 2.6** (Q2).
35. B. Kumaril, A. K. Yadav, **K. Cengiz** and B. Salah, "Integrating CLDs and Machine Learning through Hybridization for Human-Centric Wireless Networks", *Transactions on Emerging Telecommunications Technologies*, Wiley (to appear), **IF: 2.5** (Q3).
36. J. Nayak, M. Mishra, B. Naik, H. Swapnarekha, **K. Cengiz** and V. Shanmuganathan, "An Impact study of COVID-19 on Six Different Industries: Automobile, Energy & Power, Agriculture, Education, Travel & Tourism and Consumer Electronics", *Expert Systems*, Wiley, pp. 1-32, 2021, **IF: 2.3** (Q2).
37. D. Sah, R. Kumari, **K. Cengiz**, N. Ivkovic and B. Salah, "SOHCL-RDT: A Self-Organized Hybrid Cross-Layer Design for Reliable Data Transmission in Wireless Network", *Physical Communication*, Elsevier (to appear), **IF: 2.2** (Q3).
38. S. Kumar, **K. Cengiz**, S. Vimal and A. Suresh, "Energy Efficient Resource Migration Based Load Balance Mechanism for High Traffic Applications IoT", *Wireless Personal Communications*, Springer, 2021, **IF: 2.2** (Q3).
39. S. Memon, K. A. Memon, J. A. Uqaili, K. K. Soothar, R. S. Uqaili and **K. Cengiz**, "Joint optimal power splitting and relay selection strategy under SWIPT", *Wireless Networks*, Springer, vol. 27, pp. 5385-5395, 2021, **IF: 2.1** (Q3).
40. R. Kumari, D. K. Sah, **K. Cengiz**, N. Ivkovic and P. Balaji, "Automatic graph construction and Exploring different types of LSTMs for Asian Hindi languages for Medical review Sentiment Analysis", *ACM Transactions on Asian and Low-Resource Language Information Processing* (to appear), **IF: 2** (Q3).
41. A. H. Bhat, T. N. Nguyen, **K. Cengiz** and P. Prabhu, "An Exact Clustering Algorithm for NGS Metagenomic Sequences", *Mathematical Methods in the Applied Sciences*, Wiley (to appear), **IF: 1.8** (Q1).
42. M. A. Jamshed, M. Ur-Rehman, J. Frnda, A. A. Althuwayb, A. Nauman and **K. Cengiz**, "Dual Band and Dual Diversity Four-Element MIMO Dipole for 5G Handsets", *Sensors*, vol. 21, no. 3, 2021, **IF: 3.5** (Q2).
43. S. R. Hassan, A. Rehman, M. U. Gul, K. Cengiz, N. Ivkovic and I. Mihaljevic, "Trust

- and Class Aware Service Discovery with Dual Control in the Social Internet of Things", **Scientific Reports, Nature** (to appear), **IF: 3.9 (Q1)**.
44. S. Lipsa, R. K. Dash, S. Debdas, **K. Cengiz**, P. Kumar, N. Pal, "Enhancing cardiac disease prediction with explainable bidirectional LSTM", **Scientific Reports, Nature**, vol. 15, No. 1, 2025, **IF: 3.9 (Q1)**.
 45. R. Malik, R. Garg, **K. Cengiz**, N. Ivkovic and A. Akhunzada, "MODAMS: Design of a Multimodal Object-Detection based Augmentation Model for Satellite image sets", **Scientific Reports, Nature** (to appear), **IF: 3.9 (Q1)**.
 46. D. Muduli, R. Kumari, A. Akhunzada, **K. Cengiz**, S. K. Sharma, R. R. Kumar and D. K. Sah, "Retinal imaging-based glaucoma detection using modified pelican optimization based extreme learning machine", **Scientific Reports, Nature**, 14, 2024, **IF: 3.9 (Q1)**.
 47. R. Chaturvedi, D. Sahu, B. P. Singh, S. Prakash, T. Yang, R. S. Rathore, **K. Cengiz** and N. Ivkovic, "A hybrid multi-node QKD-ECC architecture for securing IoT networks", **Scientific Reports, Nature** (to appear), **IF: 3.9 (Q1)**.
 48. **K. Cengiz**, T. Dag, "Energy Aware Multi-Hop Routing Protocol for WSNs", *IEEE Access*, vol. 6 no. 2018-10600, pp. 2622-2633, 2018, **IF: 3.6 (Q2)**.
 49. M. Bellal, S. E. Fkihi, **K. Cengiz** and N. Ivković, "A Comprehensive Survey on Deep Learning in Abdominal Imaging: Datasets, Techniques, and Performance Metrics", *IEEE Access* (to appear), 2025, **IF: 3.6 (Q2)**.
 50. S. Lipsa, R. K. Dash, N. Ivković, **K. Cengiz**, "Task Scheduling in Cloud Computing: A Priority-based Heuristic Approach", *IEEE Access*, Vol. 11, 2023, **IF: 3.6 (Q2)**.
 51. M. A. Bouke, A. Abdullah, J. Frnda, **K. Cengiz** and B. Salah, "Bukagini: a Stability-Aware Gini Index Feature Selection Algorithm for Robust Model Performance", *IEEE Access* (to appear), 2023, **IF: 3.6 (Q2)**.
 52. **K. Cengiz**, S. Lipsa, R. K. Dash, N. Ivkovic and M. Konecki, "A Novel Intrusion Detection System Based on Artificial Neural Network and Genetic Algorithm with a New Dimensionality Reduction Technique for UAV Communication", *IEEE Access* (to appear), 2024, **IF: 3.6 (Q2)**.
 53. S. Kumar, R. Kumar, M. Gupta, **K. Cengiz** and N. Ivkovic, "A Novel Approach for Classification and Detection of Apple Leaf Disease Using Enhanced RBVT-Net with Transfer Learning and YoloV7", *IEEE Access* (to appear), 2025, **IF: 3.6 (Q2)**.

54. M. Asim, F. Sair, M. Ishaq, K. Cengiz, S. Akleylek and N. Ivkovic, "VAE-XGBoost: A hybrid intrusion detection system for next generation EV charging networks", PeerJ Computer Science (to appear), **IF: 2.5 (Q2)**.
55. P. Balaji, S. Babu, M. A. Chaurasia, A. Thiyagarajan, S. Akleylek and **K. Cengiz**, "A novel human-inspired solution to high-dimensional optimization problems", PeerJ Computer Science (to appear), **IF: 2.5 (Q2)**.
56. A. U. R. Badar, D. Mahmood, A. Iqbal, S. W. Kim, S. Akleylek, **K. Cengiz** and A. Nauman, "DeepSpoofNet: A Framework for Securing UAVs against GPS Spoofing Attacks", PeerJ Computer Science (to appear), **IF: 2.5 (Q2)**.
57. S. Ali. K, S. J. Philip, A. A. Khan, L. Moses, K. Cengiz, S. Akleylek and N. Ivkovic, "Expectation Maximization - Vector Approximate Message Passing Based Generalized Linear Model for Channel Estimation in Intelligent Reflecting Surface - assisted Millimetre Multi User Multiple-Input Multiple-Output Systems", PeerJ Computer Science (to appear), **IF: 2.5 (Q2)**.
58. D. Dave, A. Akhuzada, N. Ivkovic, S. Gyawali, K. Cengiz, A. Ahmed and A.S. Shamayleh, "Diagnostic test accuracy of AI-Assisted mammography for breast imaging: A Narrative Review", PeerJ Computer Science (to appear), **IF: 2.5 (Q2)**.
59. P. Balaji, K. Cengiz, S. Babu, O. Alqahtani, S. Akleylek, "Metaheuristic optimized complex-valued Dilated Recurrent Neural Network for attack detection in Internet of Vehicular Communications", PeerJ Computer Science (to appear), **IF: 2.5 (Q2)**.
60. M. A. Bouke, A. Abdullah, **K. Cengiz** and S. Akleylek, "Application of BukaGini algorithm for enhanced feature interaction analysis in intrusion detection systems", PeerJ Computer Science (to appear), **IF: 2.5 (Q2)**.
61. S. Lipsa, R. K. Dash, **K. Cengiz**, N. Ivkovic and A. Akhuzada, "A 5G network based conceptual framework for real-time malaria parasite detection from thick and thin blood smear slides using modified YOLOv5 model", Digital Health, Sage (to appear), **IF: 3.3 (Q1)**.
62. V. Lahoura, H. Singh, A. Aggarwal, B. Sharma, M. A. Mohammed, R. Damaševičius, S. Kadry and **K. Cengiz**, " Cloud Computing-Based Framework for Breast Cancer Diagnosis Using Extreme Learning Machine ", Diagnostics, vol. 11, no. 2, 2021, **IF: 3.3 (Q1)**.

63. M. Ishaq, M. Asim, Ahadullah, K. Cengiz, M. Konecki, N. Ivkovic and **K. Cengiz**, "Development of Novel Urdu Language Part of Speech Tagging System for Improved Urdu Text Classification", *Social Network Analysis and Mining*, Springer (to appear), **IF: 2.8** (Q2).
64. G. Gad, E. Gad, **K. Cengiz**, Z. Fadlullah and B. Mokhtar, "Deep Learning-Based Context-Aware Video Content Analysis on IoT Devices", *Electronics*, vol. 11, no. 11, 2022, **IF: 2.6** (Q2).
65. N. Minallah, K. Ullah, J. Frnda, **K. Cengiz** and M. A. Javed, "Transmitter Diversity Gain Technique Aided Irregular Channel Coding for Mobile Video Transmission", *Entropy*, vol. 23, no. 2, 2021, **IF: 2** (Q2).
66. H. S. Abubakar, Z. Zhao, S. A. Kiani, S. Khan, T. Ali, M. A. Bashir, **K. Cengiz** and M. M. Kamal, "Eight Element MIMO Antenna for Sub 6GHz 5G Cellular Devices", *Physica Scripta*, IOP Science (to appear), **IF: 2.6** (Q2).
67. Y. Wang and **K. Cengiz**, "Implementation of the Spark technique in a matrix distributed computing algorithm", *Journal of Intelligent Systems*, De Gruyter, vol. 31, no. 1, pp. 660-671, 2022, **IF: 2** (Q3).
68. Md. A. K. Akhtar, M. Kumar, S. Verma, **K. Cengiz**, A. Khurma and M. Alaazab, "Unifying Optimization Forces: Harnessing the Fine-Structure Constant in an Electromagnetic-Gravity Optimization Framework", *Journal of Intelligent Systems* (to appear), **IF: 2** (Q3).
69. **K. Cengiz**, T. Dag, "A review on the recent energy-efficient approaches for the Internet protocol stack", *Eurasip Journal on Wireless Communications and Networking*, April 2015 (108), **IF: 1.9** (Q3).
70. M. M. Mustafa, A. A. Khalifa, **K. Cengiz**, N. Ivković, "An Energy-Efficient Protocol for Internet of Things Based Wireless Sensor Networks", *Computers, Materials & Continua* (to appear), 2023, **IF: 1.7** (Q3).
71. **K. Cengiz**, I. Baig, S. Chakravarty, A. Kumar, M. A. Albreem, M. H. Alsharif, P. Uthansakul, J. Nebhen and A. A. Aly, "Power Domain Multiplexing Waveform for 5G Wireless Networks", *Computers, Materials & Continua*, vol. 70, no. 1, 2022, **IF: 1.7** (Q3).
72. A. Ullah, Y. Muhammad, B. Zada, **K. Cengiz**, N. Ivkovic, M. Konechi and A. Yahya,

- "Identification of visibility level for enhanced road safety under different visibility conditions: A hierarchical clustering-based learning model", *Computers, Materials & Continua* (to appear), 2025, **IF: 1.7** (Q3).
73. **K. Cengiz**, T. Dag, "Improving Energy-Efficiency of WSNs through LEFCA", *International Journal of Distributed Sensor Networks*, vol. 8, no. 12: 8139401, 2016, **IF: 2.5** (Q3).
74. R. Khan, Q. Yang, I. Ullah, A. Ur Rehman, A. Bin Tufail, A. Noor, A. Rehman and **K. Cengiz**, "3D Convolutional Neural Networks based Automatic Modulation Classification in the Presence of Channel Noise", *IET Communications*, vol. 16, no. 5, pp. 497-509, 2022, **IF: 1.6** (Q3).
75. L. Yan, **K. Cengiz** and A. Sharma, "An improved image processing algorithm for automatic defect inspection in TFT-LCD TCON", *Nonlinear Engineering, De Gruyter*, 2021:10, pp. 293-303, 2021, **IF: 1.5** (Q3).
76. S. Cheng, B. Zhang, J. Li, Z. Tang, G. Hui and **K. Cengiz**, "Appearance based Gaze Estimation Using Eye Region Landmarks and Math Approach", *Journal of Internet Technology*, vol. 21, no. 6 (13), 2020, **IF: 1.2** (Q4).
77. L. Hu¹, C. Liu, **K. Cengiz** and G. Nallappan, "Application of Internet of Things Framework in Physical Education System", *Journal of Internet Technology*, vol. 22, no. 6, pp. 1409-1418, 2021, **IF: 1.2** (Q4).
78. L. Ma, M. Ikbal and **K. Cengiz**, "Realization of Agricultural Machinery Equipment Management Information System Based on Network", *International Journal of Agricultural and Environmental Information Systems*, vol. 12, no. 3, pp. 1-13, 2021, **IF: 0.4** (Q4).

International Patents

1. T. Vaiyapuri, M. A. Chaurasia, J. S. Tedla, K. C. Bairapareddy, B. Jayakrishnan and **K. Cengiz**, "Neural recovery rehabilitation system using virtual reality", Japan Patent, JP 2025-000577, 2025.
2. Kaushal C, Hussain N, Ibrahim O, **Cengiz K**, Brahma B, Shukla P, Solanki S, Yadav S, and Soni M, "An Improvisation System for Computer Network Security Based on An Iot and Block Chain", Australian Government IP Australia

- (AusPat), 2021104769, 2021.
3. Verma B. K, Bartere M. M, Aquatar M. O, Kumar P, Panda R. B, Dhiman G, Soni M, Lokulwar P, **Cengiz K**, and Gomathi S, "A Method for Data Security Using Virtual Key Replacement in Image Steganography", Australian Government IP Australia (AusPat), 2020104195, 2021.
 4. Soni M, Hussain N, Patel N, Singholi A. K. S, Mehta K. P, **Cengiz K**, Subramanian S, Dhiman G, Saxena D, and Kulkarni V, "An IoT and Deep Learning Enabled Device for Monitoring Social Distancing", Australian Government IP Australia (AusPat), 2020103880, 2021.
 5. Sharma A, Pandey S, Chouhan V, Mahapatra R. P, Kumar N, Sethi G, **Cengiz K**, Mishra M. K, Dubey S. B, Tiwari S. M, Hathwal R. P, Saini M. K, "IoT Network Communication Process to Prevent Machine Learning Attack Using Lockdown Protocol", Australian Government IP Australia (AusPat), 2020101606, 2020.
 6. Sharma A, Sarkar A, Mewada S, Choudhary A, Singh Y, Acharya B, Ganguli S, Karelia N, Pradhan A, Panda B, **Cengiz K**, Goar V. K, "Technique for Multilayer Protection from Quantifiable Vulnerabilities in Industrial Cyber Physical System", Australian Government IP Australia (AusPat), 2020102142, 2020.

SCOPUS Journal Articles

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2. A. Saha, S. Gupta, C. Paul, S. Mallik, **K. Cengiz**, "Recent advances in genetic feature marker discovery through differential expression and biostatistical analysis", Artificial Intelligence in Health (to appear), 2025.
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3. P. Dutta, S. Pal, A. Kumar and **K. Cengiz**, "Artificial Intelligence for Cognitive Modeling", CRC Press, 2023.
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3. G. Raja, K. Kottursamy, A. Theetharappan, **K. Cengiz**, A. Ganapathisubramaniyan, R. Kharel, and K. Yu, "Dynamic Polygon Generation for Flexible Pattern Formation in Large-Scale UAV Swarm Networks", **IEEE GLOBECOM**, December 2020.
4. D. K. Sah, A. Nauman, M. A. Jamshed, **K. Cengiz**, N. Ivkovic and V. Uros, "Reinforcement Learning Infused MAC for Adaptive Connectivity", **IEEE WCNC**, Dubai, UAE, April 2024.
5. **K. Cengiz**, "Optimizing Power Consumption in Data Centers Through Intelligent Load Balancing Algorithms", IEEE 8th International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT), Turkey, 2024.
6. **K. Cengiz**, "Optimizing Energy Efficiency in Smart Buildings Through Intelligent HVAC Control Systems", IEEE 8th International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT), Turkey, 2024.
7. M. M. Mustafa, A. Khalifa and **K. Cengiz**, "Personalized Stress Relief System Using Emotion Recognition and Machine Learning", 3rd IEEE Cognitive Models and Artificial Intelligence Conference (AICCONF), 2025.
8. R. Sultana, M. Zaman, N. Ivkovic, **K. Cengiz**, I. Rafaqat and A. Akhunzada, "Efficient Detection of Knee Osteoporosis Using the Swin Transformer on X-Ray Images", IEEE International Conference on Computer and Applications (ICCA), 2024.
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11. A. Khalifa, F. A. Aldhanhani, H. A. Zaabi and **K. Cengiz**, "Smart IoT-Based Diabetes Management System", IEEE 7th International Symposium on Innovative Approaches in Smart Technologies (ISAS), Turkey, Nov. 2023.

12. M. M. Mustafa, S. Umamaheswari, A. A. Khalifa, B. Mokhtar and **K. Cengiz**, "An Application of Linear Regression On Air Pollution Detection Using Deep Learning", IEEE 4th International Congress on Human-Computer Interaction, Optimization and Robotic Applications, Turkey, June 2022.
13. M. M. Mustafa, A. A. Khalifa and **K. Cengiz**, "Performance Analysis of BSN Using ACK-TDMA Techniques for Effective Communication", IEEE 4th International Congress on Human-Computer Interaction, Optimization and Robotic Applications, Turkey, June 2022.
14. A. A. Afify, C. N. Tadros, **K. Cengiz** and B. Mokhtar, "Full Connectivity Driven K-LEACH Algorithm for Efficient Data Forwarding in IoT Networks", International Conference on Innovative Computing and Communication (ICICC 2022), Spain, Feb. 2022.
15. J. Kulkarni, S. Dhabre, S. Kulkarni, C.-Y. D. Sim, R. K. Gangwar and **K. Cengiz**, "Six-Port Symmetrical CPW-Fed MIMO Antenna for Futuristic Smartphone Devices", IEEE 6th International Conference for Convergence in Technology (I2CT), India, April 2021.
16. J. S. Kulkarni, **K. Cengiz** and S. Gharat, "Compact C-Slot Microstrip-Fed Planar Antenna for Wireless Devices", IEEE Conference on Emerging Smart Computing and Informatics (ESCI), India, March 2021.
17. Z. D. Akşehir, S. Akleyek, E. Kılıç, B. Şirin and **K. Cengiz**, "Collecting Health Information with LoRa Technology", The International Conference on Artificial Intelligence and Applied Mathematics in Engineering, 2023.
18. **K. Cengiz**, "Multi-Hop Intra Cluster Relaying Approach for WSNs", 5th International Congress on Fundamental and Applied Sciences (ICFAS 2018), Skopje, Macedonia, June 2018.
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 23. E. B. Bulut, **K. Cengiz**, "Determination the Effects of Duty Cycle and Switching Frequency on Efficiency of Boost Converter for Fixed Load Applications", International Conference on Technology, Engineering and Science (IConTES 2017), Antalya, Turkey, October, 2017.
 24. M. Aydemir, **K. Cengiz**, "Emerging Infrastructure and Technology Challenges in 5G Wireless Networks", 2nd International Multidisciplinary Conference on Computer and Energy Science (SpliTech2017), Split, Croatia, July, 2017.
 25. **K. Cengiz**, "Constant Clustering Approach with Maximum Energy for WSNs", 4th International Energy Technology Conference (ENTECH-16), Istanbul, Turkey, Dec, 2016.
 26. **K. Cengiz** and T. Dag, "Multi-Hop Low Energy Fixed Clustering Algorithm (M-LEFCA) for WSNs", IEEE 2016 International Symposium on Telecommunications Technologies (ISTT-16), Kuala Lumpur, Malezya, Nov, 2016.
 27. M. Aydemir, **K. Cengiz**, "Analyzes of Next Generation Technologies in 5G Wireless Networks", 1st International Mediterranean Science and Engineering Congress (IMSEC 2016), Adana, Turkey, Oct, 2016.
 28. **K. Cengiz**, "Energy Efficient Random Selected Constant Clustering Approach for Wireless Sensor Networks", 3rd International Conference on Advanced Technology and Sciences, Konya, Turkey, Sep, 2016.
 29. **K. Cengiz**, "Simulation and Analyses of Heterogeneous WSN Clustering Protocols", 3rd International Conference on Advanced Technology and Sciences, Konya, Turkey, Sep, 2016.
 30. **K. Cengiz** and T. Dag, "Extending the Lifetime of WSNs with Maximum Energy Selection Algorithm (MESA)", IEEE 4th International Black Sea Conference on Communications and Networking (BLACKSEACOM-16), Varna, Bulgaria, June, 2016.
 31. **K. Cengiz** and T. Dag, "Nearest Fixed Clustering Algorithm (NFCA) for Wireless Sensor Networks", IEEE 19th International Symposium on Electrical Apparatus and

Technologies (SIELA- 16), Bourgas, Bulgaria, May, 2016.

32. **K. Cengiz** and T. Dag, "Low energy fixed clustering algorithm (LEFCA) for wireless sensor networks", IEEE International Conference on Computing and Network Communications (CoCoNet), Trivandrum, India, Dec. 2015.

33. **K. Cengiz** and T. Dag, "Towards Energy Efficient MAC Protocos", 2014 The 18st World Multi Conference On Systemics, Cybernetics and Informatics (WMSCI 2014), Orlando, Florida, USA, July 2014.

Editorial Activities

- **Editor in Chief**, Journal of Cyber Security and Risk Auditing (Scopus)
- **Associate Editor**, IEEE Internet of Things Journal (WOS - Q1)
- **Associate Editor**, IEEE Transactions on Intelligent Transportation Systems (WOS - Q1)

Research, Teaching Grants

- **2.370.768,98 Euros**, Digital transformation of Central Croatia and Northern Adriatic through AI & Gaming EDIH, European Union Project, **Partner**, 2022-2026.

Awards and Recognitions

- **Top 2% Scientist**, 2022-Present, Stanford University Top 2% Scientist List
- **Best Scientist of the University**, University of Fujairah, UAE, AD Scientific Index, 2024-2026.
- **Best Paper Award**, 7th International Conference on Advanced Technology and Sciences (ICAT), Turkey, 2018
- **Best Presentation Award**, 3rd International Conference on Advanced Technology and Sciences (ICAT), Turkey, 2016.

University & Community Services

- **Keynote Speaker**, 8th IEEE International Congress on Human-Computer Interaction, Optimization and Robotic Applications, Ankara, Turkey, 2026

- Keynote Speaker, 4th IEEE Cognitive Models and Artificial Intelligence Conference, Prague, Czech Republic, 2026
- Keynote Speaker, 3rd International Conference on Emerging Trends and Applications in Artificial Intelligence, Istanbul, Turkey, 2026
- Keynote Speaker, 4th International Conference on Intelligent Systems, Hanoi, Vietnam, 2026
- Keynote Speaker, 2nd International Conference on Artificial Intelligence and Networking, Ras Al Khaimah, UAE, 2025
- Keynote Speaker, International Conference on Systems Engineering, Technology, and Sustainable Solutions, Oman, 2025
- Keynote Speaker, IEEE International Conference on Big Data Analytics in Bioinformatics, Kolkata, India, 2024
- Keynote Speaker, IEEE International Symposium on Multidisciplinary Studies and Innovative Technologies, Ankara, Turkey, 2024
- Keynote Speaker, World Conference on Learning and Education Research, Singapore, 2023
- Keynote Speaker, International Symposium on Innovative Approaches in Smart Technologies, Istanbul, Turkey, 2023
- Keynote Speaker, The 40th Research and Academic Conference, Research and Technology – Step into the Future, Latvia, 2021
- Keynote Speaker, International Conference on Green Technology and Design, Indonesia, 2021
- Keynote Speaker, 2nd International Conference on Machine Intelligence and Smart Systems, India, 2021
- Keynote Speaker, 4th International Conference on Micro-Electronics and Telecommunication Engineering, Ghaziabad, India, 2020
- Keynote Speaker, IEEE International Conference on Advent Trends in Multidisciplinary Research and Innovation, India, 2020