

TANER ÇEVİK

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Education

2017 March	Associate Professor – Turkish University Council (ÜAK)
2008 - 2012	Ph.D., Department of Computer Engineering, Istanbul University, Istanbul, Turkey Supervisor: Prof. A. Halim Zaim Dissertation Title: Energy Conservative Communication Techniques in Wireless Sensor Networks.
2006-2008	M.S., Department of Computer Engineering, Fatih University, Istanbul, Turkey Supervisor: Asst. Prof. Tuğrul Yanık Dissertation Title: Application of Multiple-Valued Logic in Finite Field Arithmetic
1997-2001	B.S., Department of Control and Computer Engineering, I.T.U., Istanbul, Turkey

Academic Work Experience

2018 -	Assoc. Prof., Department of Software Engineering, Istanbul Aydın University – Chairman
2017 - 2018	Assoc. Prof., Department of Computer Engineering, Istanbul Aydın University
2016 - 2017	Asst. Prof., Department of Software Engineering, Beykent University
2014 - 2016	Asst. Prof., Department of Computer Engineering, Fatih University

Language Skills

English – fluent (UDS Score - 80)
Turkish – native

Personal Information

Date of Birth: August 15, 1980
Gender: Male

Research Interests

Computer Networks, Wireless Sensor Networks, Wireless Mesh Networks, Ad-hoc Networks, Optical Networks, Li-Fi, VLC, Image Processing

Publications

A. Journal Publications

- A1.** T. Cevik, N. Cevik, E. Pashaei, "A High Discriminative Face Descriptor based on Local and Holistic Features", In Review.
- A2.** C. Ozer, T. Cevik, A. Gurhanli, "A Machine Learning-Based Framework for Predicting Game Server Load", In Review.
- A3.** I. Donmez, K. Dehghanian, T. Cevik, "Soil liquefaction assessment by artificial neural networks", In Review.
- A4.** A. Gurhanli, T. Cevik, N. Cevik, "ProMoD: A Backpropagation Algorithm Inspired by PID Control", In Review. (SCI, SCI-E)
- A5.** E. Pashaei, T. Cevik, E. Pashaei, "Efficient image contrast enhancement using hybrid black hole algorithm and particle swarm optimization", In Review. (SCI, SCI-E)
- A6.** T. Cevik, E. Pashaei, N. Cevik, "A Novel High-Distinctive Localistic Method for Facial Recognition", In Review. (SCI, SCI-E)
- A7.** T. Cevik, F. Sahin, "A High-Discriminative Facial Recognition Method Based on Shape and Grey-Level Appearances Using Landmark Points", The Visual Computer, In Press. (SCI, SCI-E)
- A8.** H. Amed, T. Cevik, "Performance Evaluation of Software Defined Networks", International Journal of Computer Science and Information Technologies, vol. 11, no. 3, pp. 31-36, 2020.
- A9.** N. Cevik, T. Cevik, "A Novel High Performance Holistic Descriptor for Face Retrieval", Pattern Analysis and Applications, vol. 23, pp. 371-383, 2020. <https://doi.org/10.1007/s10044-019-00803-5>. (SCI, SCI-E)
- A10.** T. Cevik, M. Fettahoglu, N. Cevik, S. Yilmaz, "A Framework for Transition from Square Image Processing to Hexagonal Image Processing", Multimedia Tools and Applications, Vol. 79, pp. 7021-7048, 2020. <https://doi.org/10.1007/s11042-019-08487-z>. (SCI, SCI-E)
- A11.** T. Cevik, N. Cevik, "RIMFRA: Rotation-Invariant Multi-Spectral Face Retrieval Approach by Using Orthogonal Polynomials", Multimedia Tools and Applications, vol. 78, no. 18, pp. 26537-26567, 2019. DOI:10.1007/s11042-019-07816-6. (SCI, SCI-E)
- A12.** T. Cevik, A. Gunagwera, "A Directional Multicasting-Based Architecture for Wireless Sensor Networks", International Journal of Electronics, vol. 106, no. 10, pp. 1441-1462, 2019, DOI:10.1080/00207217.2019.1600734. (SCI)
- A13.** N. Cevik, T. Cevik, A. Gurhanli, "A Novel Multispectral Face Descriptor using Orthogonal Walsh Codes", IET Image Processing, vol. 13, no. 7, pp.1097-1104, 2019, DOI:10.1049/iet-ipr.2018.6423. (SCI)
- A14.** N. Cevik, T. Cevik, "DLGBD: A directional local gradient based descriptor for face recognition", Multimedia Tools and Applications, vol. 78, no. 12, pp.15909-15928, 2019, DOI:10.1007/s11042-018-6967-4. (SCI, SCI-E)
- A15.** N. Cevik, T. Cevik, "Discrete Wavelet Transform Based High Performance Face Recognition Using A Novel Statistical Approach - GLTDM", I.J. Image, Graphics and Signal Processing, vol. 6, pp. 1-9, 2018.
- A16.** A. Gunagwera, T. Cevik, "Coverage and Energy Efficiency Optimization for Randomly Deployed Multi-tier Wireless Multimedia Sensor Networks", International Journal of Communication Networks and Information Security (IJCNIS), vol. 10, no. 1, pp. 28-36, 2018.

- A17.** T. Cevik, A. M. A. Alshaykha, N. Cevik, "A Comprehensive Performance Analysis of GLCM-DWT based Classification on Fingerprint Identification", *International Journal of Computer Applications*, vol. 180, no.32, pp. 42-47, 2018. Doi:10.5120/ijca2018916909.
- A18.** B. Ahmed, **T. Cevik**, N. Cevik, "Data Fusion-based Multimodal Biometric System for Face Recognition using Manhattan Distance Penalty Weight", *International Journal of Electronics, Mechanical and Mechatronics Engineering (IJEMME)*, vol. 7, no. 3, pp. 1441-1452, 2017.
- A19.** Y. M. M. Salih, A. Kattan, **T. Cevik**, "Detection Of Motorway Disorders By Processing And Classification Of Smartphone Signals Using Artificial Neural Networks", *International Journal of Natural Sciences Research*, vol. 4, no. 3, pp. 56-67, 2016.
- A20.** B. Berberoglu, **T. Cevik**, "Power-Controlled Data Transmission in Wireless Ad-Hoc Networks: Challenges and Solutions ", *International Journal of Advanced Computer Science and Applications*, doi:10.14569/IJACSA.2016.070174, vol. 7, no. 1, pp. 541-547, 2016.
- A21.** **T. Cevik**, S. Yilmaz, "An Overview of Visible Light Communication Systems", *International Journal of Computer Networks & Communications (IJCNC)*, doi: 10.5121/ijcnc.2015.7610, vol. 7, no. 6, pp. 139-150, 2015.
- A22.** **T. Cevik**, A. Gunagwera, N. Cevik, "A Survey of Multimedia Streaming in Wireless Sensor Networks: Progress, Issues and Design Challenges", *International Journal of Computer Networks & Communications (IJCNC)*, doi: 10.5121/ijcnc.2015.7508, Vol. 7, No. 5, pp. 95-114, 2015.
- A23.** **T. Cevik**, "ECMTADR: Energy Conservative Multi-Tier Architecture with Data Reduction for Cluster-Based Wireless Sensor Networks", *International Journal of Distributed Sensor Networks*, <http://dx.doi.org/10.1155/2015/236354>, vol. 2015, no. 1, pp. 1-11, 2015. **(SCI, SCI-E)**
- A24.** **T. Cevik**, F. Ozyurt, "Impacts of Structural Factors on Energy Consumption in Cluster-Based Wireless Sensor Networks: A Comprehensive Analysis", *International Journal of Ad hoc, Sensor & Ubiquitous Computing*, doi: 10.5121/ijasuc.2015.6101, Vol. 6, No. 1, pp. 1-19, 2015.
- A25.** **T. Cevik**, "A Hybrid OFDM-TDM Architecture with Decentralized Dynamic Bandwidth Allocation for PONs", *The Scientific World Journal*, <http://dx.doi.org/10.1155/2013/561984>, pp. 1-9, 2011. **(SCI, SCI-E)**
- A26.** **T. Cevik**, A.H. Zaim, "A Multi-Channel Cross Layer Architecture for Multimedia Sensor Networks", *International Journal of Distributed Sensor Networks*, <http://dx.doi.org/10.1155/2013/457045>, pp. 1-11, 2011. **(SCI, SCI-E)**
- A27.** **T. Cevik**, A.H. Zaim, "EETBR: Energy efficient token-based routing for wireless sensor networks", *Turkish Journal Of Electrical Engineering & Computer Sciences*, <http://dx.doi.org/10.3906/elk-1112-18>, Vol. 21, Mar. 2013, pp. 513-526. **(SCI, SCI-E)**
- A28.** **T. Cevik**, A.H. Zaim, D.Y Kaplan, "Localized Power Aware Routing with an Energy Efficient Pipelined Wakeup Schedule for Wireless Sensor Networks", *Turkish Journal Of Electrical Engineering & Computer Sciences*, <http://dx.doi.org/10.3906/elk-1012-5>, Vol. 20, No. 6, Sep. 2012, pp. 964-978. **(SCI, SCI-E)**
- A29.** **T. Cevik**, D. Yiltas, A.H. Zaim, "Delay efficient STEM by pipelining", *Procedia-Computer Science Journal*, <http://dx.doi.org/10.1016/j.procs.2010.12.017>, vol. 3, pp. 96-103, 2011.

B. Proceedings

- B1.** A. Gurhanli, **T. Cevik**, N. Cevik, "Effect of Derivative Action on Back-Propagation Algorithms", *International Conference on Innovations in Bio-Inspired Computing and Applications*, pp. 13-19, 2019.

- B2.** Y. M. M. Salih, A. Kattan, **T. Cevik**, “Detection of motorway disorders by processing of smart phone signals using artificial neural networks”, 11th International Scientific Conference on Applied Sciences and Engineering, 3-4 September, 2016, Kuala Lumpur, Malaysia.
- B3.** **T. Cevik**, N. Cevik, “A Novel Content-Based Statistical Approach for Face Recognition”, The 8th International conference on Image Processing, Wavelet and Applications (IWW 2016), Istanbul, Turkey, September 22-24, 2016.
- B4.** **T. Cevik**, A.M.A. Alshaykha, N. Cevik, “Performance Analysis of GLCM-based Classification on Wavelet Transform-Compressed Fingerprint Images”, The Sixth International Conference on Digital Information & Communication Technology & its Applications (DICTAP 2016), Konya, Turkey, 21-23 July 2016, pp. 131-135, DOI: 10.1109/DICTAP.2016.7544014.
- B5.** F. Ozyurt, E. Avci, **T. Cevik**, "Telsiz duyurga ağların iletişiminde yapısal faktörlerin performans analizi", SIU2015: Sinyal İşleme Ve İletişim Uygulamaları Kurultayı, Malatya/Türkiye, May 2015.
- B6.** **T. Cevik**, A.H. Zaim, "A QoS Enhanced Cross Layer Architecture for Multimedia Sensor Networks", International Conference on Networking and Future Internet (ICNFI 2012), Istanbul / TURKEY, Apr. 2012.
- B7.** **T. Cevik**, A.H. Zaim, "Application Specific Cluster-Based Architecture for Wireless Sensor Networks", 2nd International Symposium on Computing in Science & Engineering (ISCSE 2011), Kusadasi/Aydin / TURKEY, Jun. 2011.
- B8.** **T. Cevik**, A.H. Zaim, "Localized Energy Efficient Routing for Wireless Sensor Networks", International Conference on Distributed Computing in Sensor Systems and Workshops (DCOSS), Barcelona/Spain, Jun. 2011.
- B9.** **T. Cevik**, D. Yiltas, A.H. Zaim, "A Pipelining Model in STEM Protocol of Sensor Networks", International Symposium on Computing in Science & Engineering (ISCSE 2010), Kusadasi/Aydin / TURKEY, Jun. 2010.

C. Patents

- C1.** “Elektronik Mayın Sistemi”, 2016/06112, Turkish Patent Institute.
- C2.** “Akıllı Aşı Dolabı”, 2016/06111, Turkish Patent Institute.

Thesis Supervised

MS/MA Thesis/s

Completed

Cagdas Ozer, “Makine Öğrenmesi Yöntemleriyle Oyun Sunucu Yükünün Tahmin Edilmesi”, 2020.

Fatih Özyurt, "Analysis of Energy Conservative Architectures and Protocols in Cluster-Based Wireless Sensor Networks ", July 2014.

Yusra Mohammed M. Salih, "Detection of Motorway Disorders by Processing of Smart Phone Signals Using Artificial Neural Networks", Jun. 2016.

Bilal Ahmed, "Data Fusion- Based Multimodal Face Recognition Techniques", Jun. 2016.

Vedat YILMAZ, "Experimental Demonstration of Indoor Visible Light Communication", Jun. 2016.

Alex Gunegwera, "Coverage and Energy Efficiency Optimization for Randomly Deployed Multi-tier Wireless Multimedia Sensor Networks", Dec. 2016.

Ali Mustafa Ali Alshaykha, "Fingerprint Identification by Using Discrete Wavelet Transform and Gray-Level Co-occurrence Matrix Based Texture Analysis", Dec. 2016.