

# Tolga Ensari, PhD

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## **Research & Work Experience:**

- Assistant Professor at **Arkansas Tech University, USA**, Department of Computer and Information Science (August 2020, Now)
- Visiting Researcher at **University of Louisville, USA**, Electrical and Computer Engineering, Computational Intelligence Lab (July 2019-August 2020, 1 year)
- Member of "Computational Intelligence Lab (*Director: Prof. Dr. Jacek M. ZURADA*)", **University of Louisville, USA**, <https://engineering.louisville.edu/sites/zurada/computational-intelligence-laboratory/members/>
- Assistant Professor at **Istanbul University, Turkey**, Department of Computer Engineering (2009-2020, 10 years)
- Research Assistant at **Istanbul University, Turkey**, Department of Computer Engineering (2001-2009, 8 years)
- Visiting Researcher at **China University of Petroleum, Qingdao, China**, Computer Engineering, (June, 2018)
- Visiting Researcher at **University of Louisville, USA**, Electrical and Computer Engineering, (July 2014-September 2014, 4 months)
- Visiting Researcher at **University of Louisville, USA**, Electrical and Computer Engineering, (September 2011-September 2012, 1 year)
- Visiting Researcher at **University of Louisville, USA**, Electrical and Computer Engineering, (June 2011, 1 month)

## **Education:**

- Ph.D. (2003-2009):** Istanbul University, Department of Computer Engineering, Istanbul, Turkey  
*Thesis Title:* Stability Analysis of Neural Networks with Time Varying Delays
- M.Sc. (2000-2003):** Istanbul Technical University, Information Technologies, Istanbul, Turkey  
*Thesis Title:* Cellular Neural Networks Applications
- B.Sc. (1996-2000):** Istanbul Technical University, Department of Electronics and Telecommunication Engineering, Istanbul, Turkey

## **Research Interests:**

- Machine Learning, Deep Learning, Pattern Recognition

## **Research Lab (Group):**

- Director of "*Computational Intelligence and Machine Learning (CIML) Research Group (Lab)*"  
<https://ciml.group/>

## **Google Research Profile (Citation and H-Index):**

- Research profile based on citation, H-index and publications:  
<https://scholar.google.com/citations?user=o-TS7FsAAAAJ&hl=en&oi=ao>

## **Citations:**

More than **1100** citations in the literature (Google Scholar)

**Wikipedia** References: “Speckle Noise”, *Wikipedia, Wikimedia Foundation, n.d. Web. 17 Nov. 2016.*

[https://en.wikipedia.org/wiki/Speckle\\_noise](https://en.wikipedia.org/wiki/Speckle_noise)

[https://en.wikipedia.org/wiki/Speckle\\_\(interference\)](https://en.wikipedia.org/wiki/Speckle_(interference))

## **Funded Research Projects:**

1. Project title : Combined Machine Learning and Calphad Approach to Design Multi-Component High Temperature Shape Memory Alloys  
Funded by : NASA, EPSCOR Program, Arkansas Space Grant Consortium  
Duty : CoPI
2. Project title : Programming Sequence Improvement Program (PSIP)  
Funded by : Arkansas Tech University (ATU), Innovation Grant Project  
Duty : CoPI
3. Project title : Development of Interdisciplinary Research Collaborative to Provide Datasets in Support of Education Research in Data Science  
Funded by : National Science Foundation (NSF)  
Duty : Researcher
4. Project title : Summer Undergraduate Research Experience (SURE) Program at Arkansas Tech University  
Funded by : National Science Foundation (NSF), Data Analytics That Are Robust and Trusted DART  
Duty : CoPI
5. Project title : Data Analytics that are Robust and Trusted (DART)  
Funded by : National Science Foundation (NSF)  
Duty : PI
6. Project title : Automatic Interface Code Generator from Visual Design Using Machine Learning  
Funded by : TUBITAK 1505, Scientific and Technical Research Council of Turkey  
Duty : PI
7. Project title : Smart Digital Marketing and Business Intelligence Development  
Funded by : TUBITAK 2244 Program, Scientific and Technical Research Council of Turkey  
Duty : PI
8. Project Name : Detection and Classification of Lung Cancer with Machine Learning Methods  
Funded by : Council of Higher Education - International Mevlana Project  
Duty : PI
9. Project Name : Investigation of Mitochondrial DNA Variants with Data Mining in Oxidative Phosphorylation System Diseases  
Funded by : Istanbul University, Scientific Research Projects Unit  
Duty : Researcher
10. Project title : Nonnegative Matrix Factorization Applications  
Funded by : Istanbul University, Scientific Research Projects Unit  
Duty : PI

11. Project title : Stability Analysis of Neural Networks with Time Varying Delays and Their Simulations  
Funded by : Istanbul University, Scientific Research Projects Unit  
Duty : PI

12. Project title : New Analytical Methods for Stable Cellular Neural Networks Template Design and Signal and Image Processing Applications of These Templates with Analog CNN-Computer  
Funded by : TUBITAK, Scientific and Technical Research Council of Turkey  
Duty : Researcher

### **Invited Research Talks:**

- Research Talk/Invited Speaker, Ustundag B., T. Ensari, Data Science and Neuromorphic Computing (In-memory Computing/Memristor), Arkansas NSF EPSCoR/DART Annual All-Hands Conference, Little Rock, Arkansas, May 16-17<sup>th</sup>, 2022.

- Keynote Speaker, The International Conference on Intelligent Systems and Pattern Recognition (ISPR), Hammamet, Tunisia, March 24-26, 2022.

- Research Talk, Arkansas Tech University, Department of Computer and Information Science, AR, USA, Machine Learning Application Domains, April 4<sup>th</sup>, 2021.

- Magnimind Academy, Data Science Institute, 'Artificial Intelligence in Healthcare', Silicon Valley, Palo Alto, California, USA, July 29<sup>th</sup>, 2021.

- Northern Kentucky University, "Developing New Approaches in Data Science for Healthcare and Applied Mathematics, Department of Computer Science, Highland Heights, KY, USA, March 5, 2021.

- Ericsson, "Machine Learning Strategies for Software Development", Research talk at R&D Department, Istanbul, Turkey, February 12, 2019.

- China University of Petroleum, "Pattern Recognition and Its Applications on Predictive Churn Analysis, Hyperspectral Image Classification, and Flow Cytometry Data Analysis", Computer Engineering, Qingdao, China, June 7, 2018.

- Halmstad University, Research talk at "Department of Computer Science Engineering", Halmstad, Sweden, May 15, 2017.

- Istanbul University, Research talk at "Istanbul University-Faculty of Medicine", 3D Medical and Industrial Design Lab, Istanbul, Turkey, October 20, 2017.

- Istanbul University, Technocity, Research talk at "Istanbul Project Inc.", Istanbul, Turkey, August 24, 2017.

- Keynote/Invited Speaker at "IEEE International Conference on Cloud System and Big Data Engineering", Noida, India, January 14-15, 2016.

- Freie University of Berlin, Research talk at "Department of Mathematics and Computer Science Engineering at Artificial Intelligence Lab", Berlin, Germany, June 11, 2014.

- Indiana University Purdue University-IUPUI, Research talk at "Computer and Information Science Department", Indianapolis, USA, August 27, 2012.

- University of Kentucky, Research talk at "Department of Computer Science", Lexington, USA, August 22, 2012.

- Western Kentucky University, Research talk at "Department of Mathematics and Computer Science", Bowling Green, USA, August 29 2012.

- University of Louisville, Research talk at "Electrical and Computer Engineering", University of Louisville, Louisville, USA, November 23<sup>rd</sup>, 2011.

- University of Louisville, Research talk at "Electrical and Computer Engineering", University of Louisville, Louisville, USA, February 10<sup>th</sup>, 2012.

### **Services:**

- Advisor/President of the Computer Club, Arkansas Tech University, August 2021-May 2022 (Fall 2021, Spring 2022).
- Advisor/President of the Computer Club, Arkansas Tech University, August 2022-May 2023 (Fall 2022, Spring 2023).
- Advisory Committee Member at University of Arkansas Community College at Morrilton, Department of Computer Information Systems, February 2022 (This membership continues).
- Membership, Arkansas Data Science and Computing Ecosystem (ArDSCE) Statewide Committee, May 20<sup>th</sup>, 2022.
- CS Curriculum Development Committee member, Department of Engineering and Computer Sciences, Arkansas Tech University, August 2022-May 2023.
- CS Curriculum Development Committee member, Department of Engineering and Computer Sciences, Arkansas Tech University, August 2021-May 2022.

### **Industry Projects/Scientific Research Projects Consultancy (TUBITAK-TEYDEB):**

- Albert Solino Software & Consultancy
- Veri Software Inc.
- MIRSIS Information Technologies
- Cloud Factory Software
- MAESTRO Software
- MNM Technology
- BORAN Software
- LUDENS Financial Technologies
- HUAWEI
- DGR Information Technologies
- OBLOGI Social Media IT
- INFOVAS Internet and Telecommunication
- SEMANTIKA IT Inc.
- TURKGEN IT Inc.

### **Honours, Awards and Scholars:**

- Visiting Scholar, China University of Petroleum, Computer Engineering, Qingdao, China, June 2018.
- Erasmus+ Scholar, Halmstad University, Computer and Electrical Engineering, Halmstad, Sweden, May 2017.
- Erasmus+ Scholar, Free University of Berlin, Institute for Informatics, Berlin, Germany, May 2014.
- The Council of Higher Education, PostDoc Study Scholar, 1 year (September 2011- September 2012).
- "Successful International Researcher Certificate" given by Istanbul University, 2007.
- "Successful International Researcher Certificate" given by Istanbul University, 2006.

## **Scientific Review of Journals:**

- IEEE Transactions on Neural Networks and Learning Systems
- IEEE Transactions on Automatic Control
- IEEE/ACM Transactions on Computational Biology and Bioinformatics
- Neurocomputing
- Neural Networks
- Nature
- Springer-Nature
- Cambridge University Press
- Neural Processing Letters
- Physica-A
- Neural Computing and Applications
- Transactions on Computers
- PLOS
- Robotica
- Information Fusion
- Current Bioinformatics
- Computational Intelligence and Neuroscience
- TUBITAK-Turkish Journal of Electrical Engineering & Computer Science
- Computational and Applied Mathematics (AASCIT)
- Istanbul University- Journal of Electrical & Electronics Engineering
- Journal of Applied Computer Science
- International Journal of Neural Systems
- Journal of the Faculty of Engineering and Architecture of Gazi University
- Cumhuriyet Journal of Science
- Turkish Studies
- Journal of Intelligence: Theory and Applications
- Journal of Intelligent Systems
- Journal of Frontiers in Applied Mathematics
- Journal of Service Oriented Computing and Applications
- Journal of Cluster Computing
- Journal of Engineering and Science
- European Journal Science and Technology
- Gazi University Journal of Science

## **Books:**

- *Book Chapter:* Saruhan-Ozdog, F., Yiltas-Kaplan, D., & Ensari, T., Detection of Network Attacks with Artificial Immune System. In D. Burgos, M. Vejar, & F. Pozo (Eds.), Pattern Recognition Applications in Engineering, pp. 41-58, Hershey, PA: IGI Global, DOI:10.4018/978-1-7998-1839-7.ch002, January 2020.
- *Book Chapter:* T. Ensari, M. Günay, Y. Nalçakan, and E. Yıldız, Overview of Machine Learning Approaches for Wireless Communications, IGI Global International Pub., ISBN: 978-1522574583, USA, January 2019.
- *Reviewer at De Gruyter (Versita) Book Publishing-Computer Science, Germany, 2014.*
- *Writing Lab Manual:* T. Ensari, MATLAB User Guide, 2002 (Link: <http://web.itu.edu.tr/kents/matlab.pdf> ).

## **Courses Taught:**

Machine Learning, Artificial Intelligence, Data Science, Data Mining, Algorithms and Programming, Discrete Mathematics, Database Management Systems, Parallel and Distributed Computing, Compiler Design, Programming Embedded Systems, Organization of Programming Languages, Systems Software and Architecture, Computer Organization and Programming, Circuit Theory, Digital Signal Processing, Microprocessors, Probability Theory and Statistics, Differential Equations, Formal Languages and Automata Theory.

## **Administrative Experience:**

- Department “Vice Chairman”, Istanbul University, Computer Engineering (3 years, September 2014-April 2017)
- Department “Erasmus+ International Exchange Program Coordinator” (10 years, September 2010 - 2020)
- Departmental “Mevlana International Exchange Program Coordinator” (6 years, January 2014 - 2020)

## **Supervised M.Sc. & Ph.D. Thesis:**

### **PhD Thesis (On going):**

- Akif Gasi, Thesis title: Content-based Image Retrieval with Machine Learning  
Advisors: Dr. Mustafa Dagtekin, Co-Advisor: Dr. Tolga Ensari
- Zerrin Yildiz Cavdar, Thesis title: MicroRNA Target Prediction with Machine Learning  
Advisors: Dr. Ahmet Sertbas, Co-Advisor: Dr. Tolga Ensari
- Muberra Akcaman, Thesis title: Microtomography Image Classification with Deep Learning  
Advisors: Dr. Ahmet Sertbas, Co-Advisor: Dr. Tolga Ensari
- Meriem Amrane, Thesis title: Gene Detection from Pathology and Cancer Classification (Prediction) with Machine Learning Techniques  
Advisors: Dr. Saliha Oukid, Dr. Co-Advisor: Dr. Tolga Ensari
- Ebru Aydindag, Thesis title: Cancer Disease Diagnosis with Machine Learning Methods  
Advisors: Dr. Pınar Kirci, Co-Advisor: Dr. Tolga Ensari

### **PhD Thesis (Completed):**

- Ozgur Sonmez, Thesis title: Cancer Diagnosis from Biomedical Data with Machine Learning Methods,  
Advisor: Dr. Tolga Ensari

### **MSc Thesis (Completed):**

- Murat Kazanc, Thesis title: Converting Digital Documents in Image Format to LaTeX Code Using Computer Vision and Machine Learning Methods  
Advisors: Dr. Mustafa Dagtekin, Co-Advisor: Dr. Tolga Ensari
- Elif Dogan, Thesis title: MicroRNA Target Prediction for CRISPR/CAS9 System with Machine Learning  
Advisors: Dr. Ozlem Aktas, Co-Advisor: Dr. Tolga Ensari
- Gurur Pirana, Thesis title: Text Classification with Deep Learning  
Advisors: Dr. Ahmet Sertbas, Co-Advisor: Dr. Tolga Ensari
- Busra Rumeysa Mete, Thesis title: Image Classification with Deep Learning  
Advisor: Tolga Ensari
- Yagiz Nalcakan, Thesis title: Diagnosis of Alzheimer Disease with Deep Learning  
Advisor: Dr. Tolga Ensari
- Eyyup Yildiz, Thesis title: Pattern Recognition in Flow Cytometry Data  
Advisors: Dr. Tolga Ensari. Co-Advisor: Leyla Turker Sener
- Aykut Aydin, Thesis title: Classification of MicroRNA Biogene Sequences with Machine Learning  
Advisors: Dr. Ahmet Sertbas, Co-Advisor: Dr. Tolga Ensari
- Melike Gunay, Thesis title: Predictive Churn Analysis with Machine Learning  
Advisor: Dr. Tolga Ensari
- Fatih Mehmet TEKCAN, Thesis title: Hyperspectral Image Classification with Machine Learning  
Advisors: Dr. Ahmet Sertbas, Co-Advisor: Dr. Tolga Ensari
- Siyabend Turgut, Thesis title: Cancer Diagnosis with Machine Learning Methods  
Advisors: Dr. Mustafa Dagtekin, Co-Advisor: Dr. Tolga Ensari

- Yasin Ugur Belek, Thesis title: Safe Path Planning with Machine Learning  
Advisor: Dr. Tolga Ensari
- Mehmet Salih Kurt, Thesis title: Turkish Question Answering System Using Machine Learning  
Advisors: Dr. Eylem YÜCEL DEMİREL, Co-Advisor: Dr. Tolga Ensari
- İhsan Kocak, Thesis title: Nonnegative Matrix Factorization Applications  
Advisor: Dr. Tolga Ensari
- Feyzan Saruhan Ozdag, Thesis title: Network Intrusion Detection with Machine Learning Techniques  
Advisors: Dr. Derya Yiltas Kaplan, Co-Advisor: Dr. Tolga Ensari
- Rahime Yilmaz, Thesis title: EMG Signal Classification to Predict the Position and Force Patterns of Human Hand  
Advisors: Dr. Tolga Ensari, Co-Advisor: Assoc.Prof. Yunus Ziya Arslan
- Cihan Tiken, Thesis title: Deep Learning Applications  
Advisor: Dr. Tolga Ensari
- M. Metin Tiryaki, Thesis title: Data Mining Based Estimation System for Intelligent Transportation  
Advisors: Dr. Ahmet Sertbas, Co-Advisor: Dr. Tolga Ensari
- Davut Celik, Thesis title: Smart Advertisement/Survey Application Using Data Mining  
Advisors: Dr. Ahmet Sertbas, Co-Advisor: Dr. Tolga Ensari

### **Membership:**

- IEEE Computational Intelligence Society Membership
- American Association for Science and Technology (AASCIT)

### **Academic Publications:**

#### **A. Journal Publications:**

- [1] A. Gasi, M. Dagtekin, and T. Ensari, Ontology Supported Semantic Based Image Retrieval, Research Square, 2023 [In press].
- [2] Z. Cavdar, T. Ensari, L. T. Sener, A. Sertbas, MicroRNA Target Prediction by Machine Learning-based Microarray Technique: Research Study, European Journal of Science and Technology, Issue 44, pp 39-45, 2022.
- [3] T. Ensari, B. Ensari, M. Dagtekin, Violence Detection with Machine Learning: A Sociodemographic Approach, European Journal of Science and Technology, Issue 44, pp. 104-107, 2022.
- [4] E. A. Bayrak, P. Kirci, T. Ensari, E. Seven, and M. Dagtekin, Diagnosing Breast Cancer Using Machine Learning Methods, Journal of Intelligent Systems: Theory and Applications, vol. 5, no. 1, pp. 35-41, 2022.
- [5] M. Amrane, S. Oukid, and T. Ensari, Molecules Generation to Inhibit Covid-19 Disease Using Encoder-Decoder LSTM Architecture and PCA Properties, Journal of Mechanics in Medicine and Biology, vol. 23, no. 1, 2023.
- [6] E. Yildiz, T. Ensari, L. T. Sener, J. Zurada, Combined Gaussian Mixture Model to Analysis Flow Cytometry Data, Journal of Cytometry: Part A [Under review].
- [7] O. S. Sonmez, M. Dagtekin, and T. Ensari, Gene Expression Data Classification Using Genetic Algorithm based Feature Selection, Turkish Journal of Electrical Engineering and Computer Sciences, vol. 29, no. 7, 2021.
- [8] A. Gasi, T. Ensari, and M. Dagtekin, Semantic-based Image Retrieval-A Survey, Journal of Acta-Infologica/Istanbul University, vol. 5, no. 2, 2021.

- [9] M. Kazanc, T. Ensari, and M. Dağtekin, Filtering Videos by Classification with Deep Learning, IEEE International Congress on Human- Computer Interaction, European Journal of Science and Technology, European Journal of Science and Technology, vol. 26, pp 338-342, Optimization, and Robotics Applications, Turkey, June, 2021.
- [10] M. Dağtekin, E. Seven, A. E. Balsever, E. N. Var, L. T. Şener, A. N. Alçalar, B. Ensari, T. Ensari, “Post-Traumatic Stress Disorder (PTSD) Management: A Machine Learning Approach”, European Journal of Science & Technology, Special Issue, pp. 284-288, August 2020.
- [11] T. Ensari, D. C. Armah, A. E. Balsever, M. Dağtekin, “Convolutional Neural Networks for Image-Based Digital Plant Phenotyping”, European Journal of Science & Technology, Special Issue, pp. 338-342, August 2020.
- [12] Ö. Aktaş, E. Doğan, T. Ensari, CRISPR/CAS9 Target Prediction with Deep Learning, Biomedical Journal of Sci&Tech Res, vol. 21, no. 5, Oct 2019.
- [13] Aydındağ Bayrak E., Kırıcı P., Ensari T., Performance Analysis of Machine Learning Algorithms and Feature Selection Methods on Hepatitis Disease, International Journal of Multidisciplinary Studies and Innovative Technologies, vol. 3, no. 2, pp.135-138, 2019.
- [14] [Invited Paper] M. Günay, T. Ensari, "New Approach for Predictive Churn Analysis in Telecom", Transactions on Communications, vol. 18, pp. 66-70, March 2019.
- [15] M. Yankayis, T. Ensari, Performance Evaluation of Feature Extraction Modeling Methods for Speaker Recognition, Journal of Annals of Review and Research, vol. 4, no. 3, pp. 1-11, November 2018.
- [16] M. A. Hazar, N. Odabasioglu, T. Ensari, Y. Kavurucu, O. F. Sayan, “Performance Analysis and Improvement of Machine Learning Algorithms for Automatic Modulation Recognition Over Rayleigh Fading Channels”, Neural Computing and Applications, vol. 29, issue 9, pp. 351-360, May 2018.
- [17] T. Ensari, “Pattern Recognition from Face Images”, International Journal of Naval Science and Engineering, vol. 13, No. 2, pp. 14-20, November 2017.
- [18] E. Yıldız, T. Ensari, “Gender Classification from Face Images”, International Journal of Naval Science and Engineering, Vol. 13, No. 1, pp. 31-42, April 2017.
- [19] Y. Kavurucu, T. Ensari, “Smart Home System Hardware and Software Design”, International Journal of Naval Science and Engineering, Vol. 12, No. 2, pp. 40-47, December 2016.
- [20] T. Ensari, “Character Recognition Analysis with Nonnegative Matrix Factorization”, International Journal of Computers, Vol. 1, pp. 217-220, September 2016.
- [21] T. Ensari, "Machine Learning", Information Technologies Magazine, No. 10, pp. 9-10, July 2014.
- [22] T. Ensari, S. Arik, “New results for robust stability of dynamical neural networks with discrete time delays”, Expert Systems with Applications: An International Journal 37(8): 5925-5930, 2010.
- [23] T. Ensari, S. Arik, “Global Robust Exponential Stability of Neural Networks with Multiple Time Varying Delays”, Dynamics of Continuous, Discrete and Impulsive Systems, Series A: Mathematical Analysis, Supplementary, Special Issue on Advances in Neural Networks – Theory and Applications, Part I, Vol.14 (S1) pp 6-12, August 2007.
- [24] T. Ensari, S. Arik, “Global Stability Analysis of Neural Networks with Multiple Time Varying Delays”, IEEE Transactions on Automatic Control, Vol. 50, No. 11, pp. 1781-1785, November 2005.
- [25] T. Ensari, S. Arik, “Global Stability of A Class of Neural Networks With Time Varying Delay”, IEEE Transactions on Circuits and Systems - II - Express Briefs, Vol. 52, No: 3, pp. 126-130, March 2005.

## **B. Conference Publications:**

- [1] M. Rahaman, R. Ghosh, I. Dutta, T. Ensari, and R. Cunningham, Enhancing the Programming Sequence for Undergraduate Computer Science Students: A Program for Improving Learning Outcomes, International Congress on Human-Computer Interaction Optimization, and Robotic Applications (HORA), Istanbul, Turkey, June 8-10, 2023.



- [2] A. Zencirli, H. Cetin, N. Tug, and T. Ensari, Improved Next Item Recommendation for Long Tail Products with Machine Learning, International Congress on Human-Computer Interaction, Optimization and Robotic Applications, Ankara, Turkey, June 9-11, 2022.
- [3] B. Asiroglu, S. Senan, P. Gorgel, M. E. Isenkul, T. Ensari, A. Sezen, M. Dagtekin, A Deep Learning-based Object Detection System for User Interface Code Generation, International Congress on Human-Computer Interaction, Optimization and Robotic Applications, Ankara, Turkey, June 9-11, 2022.
- [4] A. Zencirli, H. Cetin, N. Tug, and T. Ensari, "Deep Learning Classification of Location Oriented Recommendation System for Low-Sale Products", IEEE International Congress on Human-Computer Interaction, Optimization, and Robotics Applications, Turkey, June 11-13, 2021.
- [5] E. Yıldız, T. Ensari, L. Türker Şener, "Flow Cytometry Data Analysis with Machine Learning", IEEE 28<sup>th</sup> International Signal Processing and Communications Applications Conference (SIU), Gaziantep, Turkey, Oct 5-7, 2020.
- [6] S. Aykat, S. Senan, T. Ensari, "Classification of Epileptic and Healthy Individual EEG Signals Using Neural Networks", International Conference on Computer Science and Engineering (UBMK), pp 47-51, September 9, 2020.
- [7] E. Zigh, A. Elhoucine, A. Malle, M. Kadiri, B. Kouninef, T. Ensari, "Smartphone Learning for Kids Edutainment", International Conference on Networking, Information Systems & Security (NISS), March 31-April 2, 2020.
- [8] B. R. Mete, T. Ensari, "Flower Classification with Deep Convolutional Neural Networks and Machine Learning Algorithms", IEEE International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT), Ankara, Turkey, October 11-13, 2019.
- [9] B. Aşıroğlu, M. İ. Atalay, A. Balkaya, E. Tüzünkan, M. Dağtekin, T. Ensari, "Smart Clothing Recommendation System with Deep Learning", IEEE International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT), Ankara, Turkey, October 11-13, 2019.
- [10] G. Pirana, A. Sertbaş, T. Ensari, "Sentence Classification with Deep Learning Method for Virtual Assistant Applications", IEEE International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT), Ankara, Turkey, October 11-13, 2019.
- [11] T. Ensari, L. T. Şener, D. Bozkaya, B. Aşıroğlu, "Medical Data Analysis with Machine Learning Methods", International Physics Congress, Mugla, Turkey, September 4-8, 2019.
- [12] A. Zencirli, N. Tuğ, T. Ensari, "Smart Decision Support System for E-Commerce Platforms Order Management", International Conference on Computational Methods in Applied Sciences (ICCMAS), Istanbul Gelişim University, Istanbul, Turkey, July 12-16, 2019.
- [13] A. Tektaş, M. Uçar, B. Akçal, T. Ensari, R. Dağdelen, D. Timartaş, "Anomaly Detection from Sensor Data for Smart Manufacturing and Monitoring", International Conference on Computational Methods in Applied Sciences (ICCMAS), Istanbul Gelişim University, Istanbul, Turkey, July 12-16, 2019.
- [14] Ö. A. Özbek, L. Kutlucan, H. Balamur, T. Ensari, "Location Prediction with Machine Learning on Location based Social Networks", International Conference on Computational Methods in Applied Sciences (ICCMAS), Istanbul Gelişim University, Istanbul, Turkey, July 12-16, 2019.
- [15] B. Aşıroğlu, B. R. Mete, E. Yıldız, Y. Nalçakan, A. Sezen, M. Dağtekin, T. Ensari, "Automatic HTML Code Generation from Mock-up Images via Machine Learning Techniques", IEEE International Conference on Electric Electronics, Computer Science, Biomedical Engineerings'(EBBT), Arel University, Istanbul, Turkey, April 24-26, 2019.
- [16] E. Doğan, Ö. Aktaş, T. Ensari, "T. CRISPR/CAS9 Target Prediction with Deep Learning", IEEE International Conference on Electric Electronics, Computer Science, Biomedical Engineerings'(EBBT), Arel University, Istanbul, Turkey, April 24-26, 2019.
- [17] M. Günay, Z. Orman, T. Ensari, S. Oukid, N. Benblidia, "Diagnosis of Lung Cancer Using Artificial Immune System", IEEE International Conference on Electric Electronics, Computer Science, Biomedical Engineerings'(EBBT), Arel University, Istanbul, Turkey, April 24-26, 2019.
- [18] M. Amrane, S. Oukid, T. Ensari, N. Benblidia, Z. Orman, "Microarray Lung Cancer Data Classification Using Similarity based Feature Selection", IEEE International Conference on Electric Electronics, Computer Science, Biomedical Engineerings'(EBBT), Arel University, Istanbul, Turkey, April 24-26, 2019.

- [19] H. Kaya, İ. Keklik, T. Ensari, F. Alkan, Y. Biricik, "Oak Leaf Classification: An Analysis of Features and Classifiers", IEEE International Conference on Electric Electronics, Computer Science, Biomedical Engineerings'(EBBT), Arel University, Istanbul, Turkey, April 24-26, 2019.
- [20] M. Amrane, S. Oukid, T. Ensari, "Using Forward / Backword Decision Trees on GSM441161 and GSE32863 Microarray Data", IEEE International Conference on Electric Electronics, Computer Science, Biomedical Engineerings'(EBBT), Arel University, Istanbul, Turkey, April 24-26, 2019.
- [21] U. Apaydin, S. Bagriyanik, A. Karahoca, M. Aktas, T. Ensari, S. Verdi, A. Tosun, H. Dogan, "Big Data Analysis on Software Engineering: MEASURE and WEKA", National Software Engineering Symposium, Izmir, Turkey, September 23-25, 2019.
- [22] E. A. Bayrak, P. Kırıcı, T. Ensari, "Comparison of Machine Learning Methods for Breast Cancer Diagnosis", IEEE International Conference on Electric Electronics, Computer Science, Biomedical Engineerings'(EBBT), Arel University, Istanbul, Turkey, April 24-26, 2019.
- [23] M. Günay, E. Yıldız, Y. Nalçakan, B. Aşıroğlu, A. Zencirli, B. R. Mete, T. Ensari, "Digital Data Forgetting: A Machine Learning Approach", IEEE International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT), Ankara, Turkey, October 19-21, 2018.
- [24] Y. Nalçakan, T. Ensari, "Decision of Neural Networks Hyperparameters with a Population-based Algorithm", International Conference on Machine Learning, Optimization, and Data Science (LOD), Tuscany, Italy, September 13-16, 2018.
- [25] M. Günay, T. Ensari, "Predictive Churn Analysis with Machine Learning Methods", IEEE 26<sup>th</sup> International Signal Processing and Communications Applications Conference (SIU), Cesme, Izmir, Turkey, May 2-5, 2018.
- [26] M. Günay, T. Ensari, "EEG Signal Analysis of Patients with Epilepsy Disorder Using Machine Learning Techniques", IEEE International Conference on Electric Electronics, Computer Science, Biomedical Engineerings' (EBBT), Arel University, Istanbul, Turkey, April 18-19, 2018.
- [27] F. M. Tekcan, T. Ensari, A. Sertbas, "Hyperspectral Image Classification with Spectral-Spatial Feature Extraction Methods", IEEE International Conference on Electric Electronics, Computer Science, Biomedical Engineering' (EBBT), Arel University, Istanbul, Turkey, April 18-19, 2018.
- [28] M. Amrane, S. Oukid, I. Gagaoua, T. Ensari, "Breast Cancer Classification Using Machine Learning", IEEE International Conference on Electric Electronics, Computer Science, Biomedical Engineering' (EBBT), Arel University, Istanbul, Turkey, April 18-19, 2018.
- [29] S. Turgut, M. Dagtekin, T. Ensari, "Microarray Breast Cancer Data Classification Using Machine Learning Methods", IEEE International Conference on Electric Electronics, Computer Science, Biomedical Engineerings' (EBBT), Arel University, Istanbul, Turkey, April 18-19, 2018.
- [30] A. Aydın, A. Sertbaş, T. Ensari, "Classification of MicroRNA Biogene Sequences with Machine Learning", International Symposium on Graduate Research in Science: Entrepreneurship and Innovation (ISGRS), Istanbul, Turkey, October 4-6, 2018.
- [31] E. Aydınoğ Bayrak, Ş. İ. Kirbaslar, P. Kirci, T. Ensari, "Breast Cancer Classification with Machine Learning", International Symposium on Graduate Research in Science: Entrepreneurship and Innovation (ISGRS), Istanbul, Turkey, October 4-6, 2018.
- [32] M. Gunay, T. Ensari, "Diabet Diagnosis with Machine Learning", International Conference on Artificial Intelligence and Soft Computing, Amsterdam, Holland, August 9-10, 2017.
- [33] M. Günay, T. Ensari, "Comparison of Face Recognition Algorithms", IEEE 25<sup>th</sup> International Signal Processing and Communications Applications Conference (SIU'2017), Antalya, Turkey, May 15-18, 2017.
- [34] M. Bilgin, T. Ensari, "Robot Localization with Monte Carlo Method", IEEE International Electrical-Electronics & Biomedical Engineering and Computer Science (EBBT), Arel University, Istanbul, Turkey, April 20-21, 2017.
- [35] M. Salih KURT, T. Ensari, "Diabet Diagnosis with Support Vector Machine and Multilayer Perceptrons", IEEE International Electrical-Electronics & Biomedical Engineering and Computer Science (EBBT), Arel University, Istanbul, Turkey, April 20-21, 2017.

- [36] Y. Kavurucu, T. Ensari, "Predictive Cruise Control", IEEE International Electrical-Electronics & Biomedical Engineering and Computer Science (EBBT), Arel University, Istanbul, Turkey, April 20-21, 2017.
- [37] *[Invited Paper]* T. Ensari, "Character Recognition Analysis with Nonnegative Matrix Factorization", International Conference on Mathematical Models for Engineering Science, Dubrovnik, Croatia, September 28-30, 2016.
- [38] D. Celik, T. Ensari and A. Sertbas, "Smart Advertisement and Survey Analysis with Data Mining", International Conference on Computer Science and Engineering, Namik Kemal University, Tekirdag, Turkey, October 20-23, 2016.
- [39] Y. Kavurucu, T. Ensari, "Using Teensy in Intranet and Internet Media", International Conference on Computer Science and Engineering, Namik Kemal University, Tekirdag, Turkey, October 20-23, 2016.
- [40] Y. Kavurucu, A. Mutlu, T. Ensari, "Graph-based Concept Discovery in Multi Relational Data", International Conference on Cloud System and Big Data Engineering, Noida, India, January 14-15, 2016.
- [41] M. A. Hazar, N. Odabasioglu, T. Ensari, and Y. Kavurucu, "Evaluation of Machine Learning Algorithms for Automatic Modulation Recognition", International Conference on Neural Information Processing (ICONIP), Istanbul, Turkey, November 9-12, 2015.
- [42] C. Tiken, T. Ensari, "Deep Learning for Edge Detection", International Symposium on Innovative Technologies in Engineering and Science (ISITES), Valencia, Spain, June 3-5, 2015.
- [43] C. Uzunoglu, T. Ensari, Y. Kavurucu, "Hadoop Ecosystem and Its Analysis on Tweets", World Congress Technology, Innovation and Entrepreneurship, Istanbul, Turkey, May 28-30, 2015.
- [44] M. M. Tiryaki, A. Sertbas, T. Ensari, "Passenger Notification System for Intelligent Transportation", International Smart Grid Congress and Fair, Istanbul, Turkey, April 29-30, 2015.
- [45] D. Celik, T. Ensari, A. Sertbas, "Smart Advertisement Application Using Nonnegative Matrix Factorization", Scientific Congress on Electrical-Electronics, Computer and Biomedical Engineering, Arel University, Istanbul, May 26-28, 2014.
- [46] M. Kaya, O. Bektas, T. Ensari, "Breast Cancer Diagnosis Using Nonnegative Matrix Factorization", Scientific Congress on Electrical-Electronics, Computer and Biomedical Engineering, Arel University, Istanbul, May 26-28, 2014.
- [47] J. M. Zurada, T. Ensari, E. H. Asl, J. Chorowski, "Nonnegative Matrix Factorization and Its Application to Pattern Analysis and Text Mining", Federated Conference on Computer Science and Information Systems (FedCSIS), pp. 11-16, vol.8, Issue 11, Krakow, Poland, September 8-11, 2013.
- [48] T. Ensari, J. Chorowski, J. M. Zurada, "Correntropy-based Document Clustering via Nonnegative Matrix Factorization", International Conference on Artificial Neural Networks (ICANN), vol. 7553, pp. 347-354, Lausanne, Switzerland, September 11-14, 2012.
- [49] T. Ensari, J. Chorowski, J. M. Zurada, "Occluded Face Recognition Using Correntropy-based Nonnegative Matrix Factorization", International Conference on Machine Learning and Applications (ICMLA), vol.1, pp. 606-609, Boca Raton, Florida, USA, December 12-15, 2012.
- [50] T. Ensari, M. Erkan Yüksel, "Convergence Analysis of Hopfield Neural Networks", 6<sup>th</sup> International Advanced Technologies Symposium (IATS), Elazığ, Turkey, May 16-18, 2011.
- [51] T. Ensari, S. Arik, "Global Exponential Stability of Neural Networks with Multiple Time Varying Delays", Fifteenth Turkish Symposium on Artificial Intelligence and Neural Networks (TAINN), Akyaka (Gokova), Mugla, Turkey, June 21-24, 2006.
- [52] T. Ensari, S. Arik, "Stability Analysis of Neural Networks with Multiple Time Varying Delays", Turkish Symposium on Artificial Intelligence and Neural Networks (TAINN), Cesme, Izmir, Turkey, June 16-17, 2005.
- [53] T. Ensari, S. Arik, "Global Asymptotical Stability of Neural Networks with Time Varying Delay", International Turkish Symposium on Artificial Intelligence and Neural Networks (TAINN), Foca, Izmir, Turkey, June 10-11, 2004.
- [54] T. Ensari, S. Arik, "Global Stability of A Class of Neural Networks With Time Varying Delay", IEEE International Symposium on Circuits and Systems (ISCAS), Vancouver, Canada, May 23-26, 2004.
- [55] S. Kent, O. N. Ucan, T. Ensari, "Speckle Reduction of Synthetic Aperture Radar Images Using Wavelet Filtering", European Conference on Synthetic Aperture Radar (EUSAR), Ulm, Germany, May 25-27, 2004.

- [56] S. Kent, O. N. Ucan, T. Ensari, “Implementation of Cellular Neural Networks to Synthetic Aperture Radar Images”, European Conference on Synthetic Aperture Radar (EUSAR), Ulm, Germany, May 25-27, 2004.
- [57] S. Kent, O. N. Ucan, T. Ensari, “Synthetic Aperture Radar Image Processing Using Cellular Neural Networks”, International Conference on Recent Advances in Space Technologies (RAST), Air Force Academy, Istanbul, Turkey, November 20-22, 2003.
- [58] T. Ensari, O. N. Uçan and A. Karahoca, “Cellular Neural Network Approach in Distributed Database Management Systems”, Engineering Science Young Researchers Congress (MBGAK), Istanbul, Turkey, February 17-20, 2003.
- [59] T. Ensari, N. Kilic, O. N. Ucan and A. Ozmen, “Biomedical Image Processing Using Markov Random Fields and Cellular Neural Networks”, Signal Processing and Communication Applications Conference (SIU), Koc University, Istanbul, Turkey, June 18-20, 2003.

### **Scientific Conference Activities/Services:**

- [1] *Technical Program Committee Member* of the International Conference on Innovations in Intelligent Systems and Applications (INISTA'2023), Hammamet, Tunisia, September 20-23, 2023.
- [2] *Technical Program Committee Member* of the International Conference on Recent Trends in Machine Learning, IOT, Smart Cities & Applications, Hyderabad, India, March 28-29, 2023.
- [3] *General Chair*, International Conference on Intelligent Systems & Pattern Recognition (ISPR), Hammamet, Tunisia, May 11-13, 2023.
- [4] *Technical Program Committee Member* of the International Conference on Advances in Electronics, Control and Communication Systems (ICAEECS), Blidal University, Algeria, March 6-7, 2023.
- [5] *Technical Program Committee Member* of the International Conference on Control Engineering and Artificial Intelligence (CCEAI), Sanya, China, January 28-30, 2023.
- [6] *Technical Program Committee Member* of the International Conference on Machine Learning and Intelligent Systems (MLIS), Belgrade, Servia, August 14-17, 2023.
- [7] *Technical Program Committee Member* of the IEEE International Conference on Pattern Recognition and Machine Learning, Urumqi, China, August 4-6, 2023.
- [8] *Technical Program Committee Member* of the Innovations in Intelligent Systems and Applications (INISTA) Conference, Sivas, Turkey, October 11-13, 2023.
- [9] *Attending* the Arkansas NSF EPSCoR/DART Annual All-Hands Conference, Little Rock, Arkansas, May 16-17<sup>th</sup>, 2022.
- [10] *Attending* the Workshop EPSCoR Data Analytics that are Robust and Trusted (DART) Education Theme Conference, Morrilton, Arkansas, June 9-10, 2022.
- [11] *Attending* the NSF EPSCOR Workshop Artificial Intelligence (AI) with No-Boundary Thinking (NBT) to Foster Collaborations in Research, Education and Training, Little Rock, April 3-4<sup>th</sup>, 2022.
- [12] *Technical Program Committee Member* of the International Conference on Bio-inspired Systems and Signal Processing (Biosignals) February 9-11, 2022.
- [13] *Technical Program Committee Member* of the International Conference on Bio-Inspired Systems and Signal Processing, February 9-11, Vienna, Austria, February 9-11, 2022.
- [14] *Technical Program Committee Member* of the 24<sup>th</sup> ACM International Conference on Multimodal Interaction (ICMI)/Workshop on Bridging Social Sciences and AI for Understanding Child Behavior, India, November 7-11, 2022.
- [15] *Technical Program Committee Member* of the International Conference on Mobile Internet, Cloud Computing and Information Security (MICCIS), Nanjing, China, December 2-4<sup>th</sup>, 2022.
- [16] *Technical Program Committee Member* of the IEEE International Conference on Pattern Recognition and Machine Learning, Chengdu, China, July 22-24, 2022.

- [17] *Technical Program Committee Member* of the Technical Program Committee member of Innovations in Intelligent Systems and Applications Conference, Antalya, Turkey, September 7-9, 2022.
- [18] *Technical Program Committee Member* of the Technical Program Committee member of International Conference on Innovations in Intelligent Systems and Applications, Biarritz, France, August 8-10, 2022.
- [19] *Technical Program Committee Member* of the Technical Program Committee member of International Conference on AI, Machine Learning in Communications and Networks (AIMLNET), Vienna, Austria, October 29-30<sup>th</sup>, 2022.
- [20] *Program Chair, Publication Chair, and Technical Program Committee Member* of the Technical Program Committee member of International Conference on Intelligent Systems & Pattern Recognition (ISPR), Hammamet, Tunisia, March 24-26, 2022.
- [21] *Technical Program Committee Member* of the Technical Program Committee member of International Conference on Pattern Analysis and Intelligent Systems (PAIS), Algeria, October 12-13<sup>th</sup>, 2022.
- [22] *Technical Program Committee Member* of the Technical Program Committee member of International Conference on Machine Learning and Intelligent Systems (MLIS), Seoul, Republic of Korea, November 8-11, 2022.
- [23] *Attending* the National Science Foundation, Data Science for Arkansas Pedagogical Workshop, University of Arkansas, Fayetteville, June 7-9, 2021.
- [24] *Attending*, IEEE-USA Division: Working Towards Advancing Energy Policy and Strengthening the Security of the Electric Grid, Ozark & Arkansas River Valley Sections, Russellville, May 20, 2021.
- [25] *Technical Program Committee Member* of the Innovations in Intelligent Systems and Applications Conference (ASYU'2021), October 6-8, 2021, Elazig, Turkey.
- [26] *Technical Program Committee Member* of the International Symposium on Intercloud and IoT (ICI'2021), August 23-25, 2021.
- [27] *Technical Program Committee Member* of the International Conference on Innovations in Intelligent Systems and Applications (INISTA'2021), Program committee member, Kocaeli, Turkey, August 25-27, 2021.
- [28] *Technical Program Committee Member* of the International Conference on Advanced Intelligent Systems and Informatics (AISI'2021), Cairo, Egypt, December 11-13, 2021.
- [29] *Technical Program Committee Member* of the Conference on Advances in the Science of Data (ASD'2021), Blida, Algeria, October 24-25, 2021.
- [30] *Technical Program Committee Member* of the IEEE International Conference on Innovations in Intelligent Systems and Applications, Turkey, August, 25-27, 2021.
- [31] *Technical Program Committee Member* of the International Symposium on Intercloud and IoT, August 23-25, 2021.
- [32] *Technical Program Committee Member* of the ACS/IEEE International Conference on Computer Systems and Applications, November 2-5, 2021.
- [33] *Technical Program Committee Member* of the International Conference on Advanced Intelligent Systems and Informatics, Cairo, Egypt, December 11-13, 2021.
- [34] *Technical Program Committee Member* of the International Conference on Advances in the Science of Data, Blida, Algeria, October 24-25, 2021.
- [35] *Technical Program Committee Member* of the Technical Program Committee member of IEEE International Conference on Pattern Recognition and Machine Learning, July 16-18, 2021.
- [36] *Technical Program Committee Member* of the IEEE International Joint Conference on Neural Networks, Glasgow, United Kingdom, July 19-24, 2020.
- [37] *Technical Program Committee Member* of the International Conference on Pattern Recognition and Machine Learning, Chengdu, China, July 16-18, 2020.
- [38] *Special Session Organization (Lung Cancer Detection)* at the IEEE International Electrical-Electronics & Biomedical Engineering and Computer Science (EBBT), Arel University, Istanbul, Turkey, April 24-26, 2019.

- [39] *Technical Program Committee Member* of the IEEE Symposium Series on Computational Intelligence, 2019.
- [40] *Technical Program Committee Member* of the IEEE International Joint Conference on Neural Networks (IJCNN), Budapest, Hungary, July 14-19, 2019.
- [41] *Special Session Organization at the IEEE International Electrical-Electronics & Biomedical Engineering and Computer Science (EBBT)*, Arel University, Istanbul, Turkey, April 24-26, 2019.
- [42] *Technical Program Committee Member* of the Software Technologies: Applications and Foundations (STAF), Eindhoven, The Netherlands, July 15-19, 2019.
- [43] *Technical Program Committee Member* of the ACS/IEEE International Conference on Computer System and Applications (AICCSA), Abu Dhabi, UAE, November 3-7, 2019.
- [44] *Technical Program Committee Member* of the International Symposium on InterCloud and IoT (ICI), Istanbul, Turkey, August 26-28, 2019.
- [45] *Organizing Committee Member* of the International Workshop on Automated Forensic Handwriting Analysis, Sydney, Australia, September 20-25, 2019.
- [46] *Technical Program Committee Member* of the International Conference on Data Science and Applications (ICONDATA), Yalova, Turkey, October 4-7, 2019.
- [47] *Technical Program Committee Member* of the "International Conference on Software Technologies: Applications and Foundations (STAF)", Eindhoven University of Technology, Eindhoven, Netherlands, July 15-19, 2019.
- [48] *Technical Program Committee Member* of the "IEEE International Electrical-Electronics & Biomedical Engineering and Computer Science (EBBT)", Arel University, Istanbul, Turkey, April 24-26, 2019.
- [49] *General Chair* of the International Workshop on ESTABLISH - ITEA3 Project, Istanbul, Turkey, November 21-22, 2018.
- [50] *Technical Program Committee Member* of the International Conference Europe Middle East and North Africa Information Systems and Technologies to Support Learning (EMENA)", Fez, Morocco, October, 25-27, 2018.
- [51] *Technical Program Committee Member* of the IEEE International Conference on Applied Smart Systems (ICASS), Medea, Algeria, November 24-25, 2018.
- [52] *Technical Program Committee Member* of the National Automatic Control Meeting (TOK), Kayseri, Turkey, September 12-14, 2018.
- [53] *Technical Program Committee Member* of the IEEE International Electrical-Electronics & Biomedical Engineering and Computer Science (EBBT), Arel University, Istanbul, Turkey, April 18-19, 2018.
- [54] *Technical Program Committee Member* of the International Conference on Pattern Analysis and Intelligence Systems (PAIS), Tebessa, Algeria, October 24-25, 2018.
- [55] *Technical Program Committee Member* of the International Conference on Sustainable Solutions for Growth (ISSG), Wrocklaw, Poland, September 17-18, 2018.
- [56] *Technical Program Committee Member* of the Mediterranean Conference on Pattern Recognition and Artificial Intelligence (MEDPRAI), Rabat, Morocco, Algeria, March 27-28, 2018.
- [57] *Technical Program Committee Member* of the International Conference on Computational Intelligence and Communication Networks (CICN), Girne, Cyprus, September 16-17, 2017.
- [58] *Project Evaluation Committee Member* of the Ministry for EU Affairs, Turkish National Agency (Erasmus+), Center for EU Education and Youth Programs, Ankara, April 2015, March 2016 and April 2017.
- [59] *Technical Program Committee Member* of the IEEE International Electrical-Electronics & Biomedical Engineering and Computer Science (EBBT), Arel University, Istanbul, Turkey, April 20-21, 2017.
- [60] *Technical Program Committee Member* of the IEEE International Conference on Communication, Computing and Digital Systems (CCODE), Pakistan, March 8-9, 2017.

- [61] *Technical Program Committee Member* of the International Conference on Computer Science and Engineering (ICCSE), Antalya, Turkey, October 5-7, 2017.
- [62] *Technical Program Committee Member* of the Mediterranean Symposium on Smart City Applications (SCAMS), Tangier, Morocco, October 25-27, 2017.
- [63] *Technical Program Committee Member* of the IEEE International Conference on Electronics, Electrical Engineering and Information Science (EEEIS), Guangdong, China, September 8-10, 2017.
- [64] *Technical Program Committee Member* of the IEEE International Conference on Man-Machine Interactions (ICMMI), Cracow, Poland, October 3-6, 2017.
- [65] *Technical Program Committee Member* of the International Conference on Science, Engineering, Law, and Management (ICSELM), Kuala Lumpur, Malaysia, January 6-7, 2017.
- [66] *Technical Program Committee Member* of the Smart Planet Applications Mediterranean Symposium, Tangier, Morocco, October 25-27, 2017.
- [67] *Steering Committee Member* of the Mediterranean Conference on Pattern Recognition and Artificial Intelligence (MEDPRAI), Tebessa, Algeria, November 22-23, 2016.
- [68] *Technical Program Committee Member* of the IEEE International Conference on Reliability, Infocom Technologies and Optimization, Noida, India, September 7-9, 2016.
- [69] *Technical Program Committee Member* of the International Conference on Advanced Electronic Science and Technology (AEST), Shenzhen, China, August 19-21, 2016.
- [70] *Technical Program Committee Member* of the International Conference on Pattern Analysis and Intelligent Systems, Khenchela, Algeria, November 25-26, 2016.
- [71] *Technical Program Committee Member* of the IEEE Conference on Signal Processing and Communications Applications, Zonguldak, Turkey, May 16-19, 2016.
- [72] *Technical Program Committee Member* of the International Conference on Mechanical, Electronic and Information Technology, Phuket, Thailand, August 28-29, 2016.
- [73] *Technical Program Committee Member* of the IEEE/IFIP International Workshop on Platforms and Applications for Smart Cities, Istanbul Technical University, Istanbul, Turkey, April 29, 2016.
- [74] *Technical Program Committee Member* of the Mediterranean Conference on Pattern Recognition and Artificial Intelligence, Tebessa, Algeria, November 22-23, 2016.
- [75] *Technical Program Committee Member* of the International Conference on Information Technologies and Information Systems, Barcelona, Spain, October 12-14, 2018.
- [76] *Technical Program Committee Member* of the IEEE International Conference on Intelligent Systems (IS), Sofia, Bulgaria, September 4-6, 2016.
- [77] *Technical Program Committee Member* of the IEEE/IFIP Network Operations and Management Symposium, Istanbul, Turkey, April 25-29, 2016.
- [78] *Technical Program Committee Member* of the International Conference on Technology and Security to Support Learning (TSSL), Saidia, Morocco, October 3-5, 2016.
- [79] *Organizing Committee Member* of the 22<sup>nd</sup> International Conference on Neural Information Processing (ICONIP), Istanbul, Turkey, November 9-12, 2015.
- [80] *Technical Program Committee Member* of the IEEE 23<sup>rd</sup> Signal Processing and Communication Applications Conference, Inonu University, Malatya, Turkey, May 16-19, 2015.
- [81] *Technical Program Committee Member* of the Innovations in Smart Systems and Its Applications (ASYU), Izmir, Turkey, October 9-10, 2014.
- [82] *Technical Program Committee Member* of the 24<sup>th</sup> International Conference on Artificial Neural Networks (ICANN), Hamburg, Germany, September 15-19, 2014.

- [83] *Technical Program Committee Member* of the IEEE 22<sup>nd</sup> Signal Processing and Communication Applications Conference, Karadeniz Technical University, Trabzon, Turkey, April 23-25, 2014.
- [84] *Local Organizing Committee Member* of the International Chaotic Dynamical Systems and Applications Symposium, Işık University, Istanbul, Turkey, October 24-26, 2013.
- [85] *Project Evaluation Committee Member* of the Ministry of Development, Istanbul Development Agency, April 2013.
- [86] *Technical Program Committee Member* of the IEEE 6<sup>th</sup> International Conference on Intelligent Systems (IS), Sofia, Bulgaria, September 6-8, 2012.
- [87] *Technical Program Committee Member* of the International Conference on Computing and Artificial Intelligence (MIC-CAI), Palma De Mallorca, Spain, 15-17 June 2012.