Dr. Yousef Awwad Daraghmi

Full Professor

Department of Computer Systems Engineering

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Work Experience

9/2024-Present University President Assistant for Information Technology Palestine Technical University- Kodoorie Managing the computer center and the IT departments at university Computer Network, Software Development, Servers and Systems, Maintenance and Support Strategic planning for IT infrastructure and Digital Transformation at University 6/2024-Present **Full Professor** Department of Computer Systems Engineering, Palestine Technical University- Kodoorie Teaching Master degree courses: data analysis in smart grids, advanced topics (blockchain, big data, cloud computing) Research on Machine and Deep Learning, Blockchain, Internet of Things Supervising Bachelor, Master and PhD students in Palestine 10/2002-Present Founder of Hisba.co Developing accounting and stores management software 9/2022-08/2024 **Director of International Relation Office** Palestine Technical University- Kodoorie Developing cooperation with international academic and non-• academic organizations Writing proposal for grants Supervising running projects funded by international donors



5/2020-6/2024	 Associate Professor Department of Computer Systems Engineering, Palestine Technical University- Kodoorie Teaching B.A. courses: Algorithms, Computer Architecture and Organization, Microprocessors, Master degree courses: data analysis in smart grids, advanced topics (blockchain, big data, cloud computing) Developing new courses, e.g., advanced database course and special topics course, new trends in computing, data analysis in smart grids Research on Intelligent Transportation Systems, Deep Learning, Blockchain, Internet of Things Supervising Bachelor, Master and PhD students in Palestine and Taiwan
4/2014-5/2020	 Assistant Professor College of Engineering and Technology, Palestine Technical University- Kodoorie Teaching Algorithms, Computer Architecture, Intelligent Systems Research on Intelligent Transportation Systems, Deep Learning, Blockchain
9/2016-8/2018	 Chairman of Computer Systems Engineering Department College of Engineering, Palestine Technical University- Kodoorie Managing staff, students and courses in the department Participating in curriculum development Participating in university committees: conference committees, job interview committees, and college committee
1/2014-6/2014	 Senior Software Engineer CacaFly company, Taiwan (Agent in East Asia of Facebook, Google, and Microsoft) Optimizing Online Advertisement and real-time bidding Mining big data of digital advertisement Designing distributed data system (shards) for the company
9/2009- 1/2014	 Research Assistant Network Optimization Lab (NOL), National Chiao Tung University, Taiwan Research on Vehicular Ad Hoc Networks (VANETs), Dynamic Guidance Systems, Spatio-temporal traffic data modeling

2/2009-9/2009	 Lecturer Computer science college, AL-Quds Open University, Palestine Teaching Java, Algorithms, and Logic Design
4/2003 — 8/2005	 Head of Technical and Computer Division Jericho Educational Directorate, Ministry of Education, Palestine Maintaining computer networks and labs in the directorate and schools Training employees and teachers on computers, software, and networks
Education	
9/2009- 01/2014	 PhD Degree Excellent with honor, 94 % Computer Science and Engineering, National Chiao Tung University, Taiwan Studied fundamental and up-to-date courses in computer systems Research topic: Intelligent Transportation Systems Publication in high class journal such as IEEE transaction on ITS and
	IEEE network magazineReviewer of several scientific journals
9/2005- 6/2007	 Master degree Excellent with honor, 93 % Computer Science and Information Engineering, National Chiao Tung University, Taiwan Studied fundamental and up-to-date courses in computer systems Research topic: E-learning and mobile learning for improving students interactivity Publication in two conferences and one journal
9/1997-6/2002	 Bachelor degree Very good, 82.7% Electrical Engineering –Computer field, AL-Najah National University, Palestine Research project: Detecting the quality of pavement by electronic sensors The project involves: designing embedded system with electronic circuits and low-level microprogramming (PIC) and high level (.net) programming
9/1996-6/1997	Tawjihi (high school certification)Excellent : 93.6%Tubas Secondary School, Palestine

Research Interests

- [1] Machine Learning, Deep Learning and Federated Learning in different applications
- [2] Blockchain applications

Students Supervision

PhD Degree Students

- [1] Mohammad Atif Sarwar, Network Optimization Lab, National Yang Ming Chiao Tung University – Taiwan, 2019-2023, Title: A Video-based Framework for Repetitive Activity Analysis
- [2] Mohammad Saffarini, Arab American University Palestine, 2020-2024, thesis Title: Automatic Road Roughness Detection and Ranking Using Deep Learing and Computer Vision
- [3] *Rasha Saffarini,* Arab American University Palestine, 2020-2024, thesis Title: Detecting Road Anomalies Using Deep Learning Methods

Master Degree Students

- [1] Rawan Abu Baker, Palestine Technical University Kadoorie, 01/2024 present, Topic: Smart Shopping Carts Utilizing Deep Learning for Recognizing Shopping Activities
- [2] Shorouq Khamees, Palestine Technical University Kadoorie, 11/2023-Present, Topic: Short Term Forecasting of Electrical Load Using Machine Learning Methods
- [3] Owais Zaid, Palestine Technical University Kadoorie, 12/2023-Present, Topic: An Improved Data Entry Using Voice Recognition: Digital Accounting System as A Case
- [4] Manar Yahya, Palestine Technical University Kadoorie, 04/2023-05/2024, Topic: Detection Powdery Mildew Disease in Cherry Plant leaves using Machine Learning Techniques
- [5] Waed Mohammad, Palestine Technical University Kadoorie, 03/2023-01/2024, Topic: Analyzing Agricultural Drone Data Using Machine Learning Models for Improving Crops Productivity
- [6] Hazim Harb, Palestine Technical University Kadoorie, 09/2021-02/2024, Topic: Developing a Blockchain Based System for Preventing Fraud and Manipulation in InsurTec Sector: Insurance Companies in Palestine as A Case
- [7] Ibrahim Shawahneh, Palestine Technical University Kadoorie, 2020-2022, Topic: *Digital Forensic of Vehicle Dashcams*
- [8] Mohammad Zitawi, Palestine Technical University Kadoorie, 2020-2022, Topic: Detecting Fake Images in Social Media
- [9] Shadi Zakarneh, Palestine Technical University Kadoorie, 2020-2023, Topic: Blockchain for Transparent and Secure Anticorruption Complain System

[10] Taqi Alqam, Arab American University - Palestine, 2021-2023, Topic: Android Malware Prediction Based on Deep Learning

Bachelor Degree Students

(selected from Palestine Technical University – Kadoorie)

- [1] Fareed Qararyah, Qais Ibrahim, Jihad Kitaneh, 09/2019 06/2017, Topic: Accurate and Real time Traffic Sign Recognition Using AI Algorithms
- [2] Noor Jallad, 09/2020-06/2021, Topic: Developing a Blockchain System for The Palestinian Anticorruption Commission
- [3] Rawan Abu Baker, 09/2029-06/2020, Developing a Blockchain System for Supporting Electronic Elections
- [4] Hamsa Mohammad, Ruba Maali, Mahmoud Ghanem, Riham Arar, Ammar Abu Zant, 09/2016-06/2017, Topic: An IoT System for Detecting Speed Bumps
- [5] Mohammad Saffarini, Saleh Shayeb, Rawan Khader, 09/2017-06/2018, Topic: An IoT System for Enabling Blind People to See Using their Tongues

Thesis/Dissertation examiner

- [1] Master thesis, Nour Al-Hendi, An Najah National University, Automated Optic Disc Segmentation for Fundus Images Based On Artificial Neural Networks, 08/2024
- [2] PhD, Aktham Sawan, Al-Quds University, Enhancement of a Machine Learning-Based Approach for Stroke Classification Using Electroencephalogram (EEG) Signals, 07/2024
- [3] Master thesis, Lubna Snono, Al-Quds Open University, topic: The effect of using Artificial Intelligence applications on the Performance of Employees in Palestinian Islamic Banks, 06/2024
- [4] Master thesis, Mohannad Amarneh, Arab American University Palestine, topic: Predicting Anxiety, Depression, and Stress Mental Health Disorders Using Machine Learning Algorithms, 02/2024
- [5] Master thesis, Yara Zayed, Arab American University Palestine, topic: Lung Cancer Detection System Using Medical Image Processing, Machine Learning, and Deep Learning Approaches, 01/2024
- [6] Master Thesis, Ashraf Qawasmi, Al-Quds Open university, topic: Human Resource Management Information Systems in Industrial Companies in Hebron and Their Role in Organizational Effectiveness, 09/2023
- [7] Master thesis, Hamed Alhjabdullah, Palestine Technical University Kadoorie, topic: Artificial Intelligence Capabilities and Their Relationship to the Strategic Decisions in the Palestinian Ministries, 09/2023

- [8] Master thesis, Mohannad Hendi, Arab American University Palestine, topic: Accurate Pedestrian Detection for Human Crowds Using Deep Learning Techniques, 07/2023
- [9] Master thesis, Mohammad Fathallah Ghanem, Arab American University Palestine, topic: Early and Accurate Prediction of Heart Disease Using Machine Learning: a Feature Selection, 03/2023
- [10] Master thesis, Areej Sawwan, An-Najah National University, topic: A Dynamic Ontological Framework for Bukhari Ahadith, 03/2023
- [11] Master thesis, Oroob Abdullah Farhan Yassin, Arab American University Palestine, topic: Diagnosis and Classification of Brain Tumors Based on Deep Learning Techniques, 02/2023
- [12] Master thesis, Leena Suadi, Alquds Open university, topic: The Influence of Digital Transformation on the Quality Level of the Governmental Services: The Case of the Palestinian Land and Water Settlement Authority, 2022
- [13] Master thesis, Eman Mukhaimer, An-Najah National University, topic: Pandemic-Based School Classes Scheduling Automation Algorithm: Palestinian Schools As A Testing Case, 2022
- [14] Master thesis, Samer Bassam Mohammad Sweileh, Arab American University Palestine, topic: Diagnosis and classification of Hypothyroidism and Hyperthyroidism based on Machine Learning Techniques, 2022
- [15] Master thesis, Azhar Omar Ghanem, An-Najah National University, topic: Agile-Scrum Backlog Changes Optimization In Software Engineering Organizations, 2022
- [16] Master thesis: Mohammed Sudqi Mohammed Fuqaha, Arab American University Palestine, topic: Preparing images for Embroidery, 2022
- [17] Master thesis, Mohammad Salaheddeen, Arab American University Palestine, topic: Assessment of Health Information Security and Privacy Protection in the Palestinian Ministry of Health, 2021
- [18] Master thesis, Ali Mohammad Ali Hussein, Arab American University Palestine, 2019, topic: Electricity Consumption Prediction Using Artificial Neural Networks and Evolutionary Algorithms: A Case Study Tulkarm City, 2021
- [19] Master theis, Abedelkareem Riad Kamel Zidan, Arab American University Palestine, 2019, topic: Prediction of Compressive Strength of Concrete in Palestinian Governorates Using Machine Learning Techniques, 2021
- [20] Master thesis, Younes Nedal Younes Hantoli, Arab American University Palestine, 2019, topic: Prediction and Classification Analytics of Obesity Datasets Using a Hybrid Model of Clustering and Neuro-Fuzzy Methods, 2021
- [21] Master thesis, Mohammad Safarini, Arab American University Palestine, topic: Automated image classification in culture heritage using KLMMK Algorithm, 2019
- [22] PhD dissertation, Venkatarao Palacherla, Visvesvaraya Technological University - India, topic: Performance Evaluation of FBGs for Dispersion Compensation, 2019

Professional Development Activities

- [1] Manager of Generative AI in Assessment and Feedback Activities of Higher Education Courses/ HEGenAI project funded by **EU KA220 HED**, 2024 2027,
- [2] Manager of *PhDGOV* project funded by **Erasmus+ CBHE**, 2023-2026, <u>https://phdgov.najah.edu/en/</u>
- [3] Manager of *AgroTec* project funded by **Erasmus+ VET**, 2022 2025, <u>https://nuct.edu.jo/agrotec/about/</u>
- [4] Member of the National Technical Committee for establishing the *National Artificial Intelligence Center* funded by the <u>Korean Government</u>, 2023-present.
- [5] Member of Research Evaluation committee, Ministry of Higher Education and Scientific Research, Palestinian Islamic Bank Research Award, 10/2022-07/2023
- [6] Member of Graduate Studies Board, Palestine Technical University Kadoorie, 09/2022-09/2023
- [7] Member, Administrative and financial Manager in "Disability as Diversity: The Inclusion of Students with Disabilities in Higher Education/ Edu4Aall" funded by Erasmus + CBHE, 11/2020 – 01/2024, <u>https://edu4all.psdpal.org/</u>
- [8] Member, Administrative and financial Manager of *"Pathway in Forensic Computing/FORC"* funded by **Erasmus + CBHE**, 2017-2020
- [9] Visiting scholar, Network Optimization Lab, National Chiao Tung University Taiwan, 06/2019-09/2019
- [10] Member of UNIMED (Mediterranean Universities Union) SubNetwork on Transports & Logistics, 2020-2022
- [11] Publicity chair of 2018 IEEE Symposium Series on Computational Intelligence
- [12] Head of the Scientific Committee, Undergraduate Research and Innovation Conference in Engineering and Information Technology, 2017 and 2018
- [13] Technical Program Committee member of conferences, (Selected):
 - International Conference on Advances in Vehicular Systems, Technologies and Applications, in 2019, 2022, and in 2023
 - VEHICULAR 2024 The International Conference on Contemporary Engineering and Computing 2024 (ICCEC 2024)
 - The first QOU International Conference on Information and Communication Technology, 2023
 - 11th International Conference on Computational Collective Intelligence 2019
 - The International Conference on Connected Vehicles and Expo in 2012, 2013, 2014, and 2015
 - The International Conference on Intelligent Transportation Systems Telecommunications (ITST) in 2012, 2013, 2015, 2017, and 2018
 - Asia-Pacific Network Operations and Management Symposium (2015-2023)
 - 2020 and 2021 International conference on Promising Electronic Technologies

[14] Reviewer in high rank journals

https://www.webofscience.com/wos/author/record/1106699 (selected)

- IEEE Transaction on Intelligent Transportation Systems,
- IEEE network magazine,
- IET Intelligent Transportation Systems
- Transactions on Multimedia Computing Communications and Applications, ACM
- Big Data and Cognitive Computing, MDPI
- Applied Sciences, MDPI
- Sensors, MDPI
- Mathematics, MDPI

<u>Talks</u>

- [1] *Digital Transformation in Transportation: Intelligent Transportation Systems*, in the Sixth Forum for Innovation organized by the Higher Council for Innovation and Excellence, 2021
- [2] Internet of Vehicles: Current Situation and Future Trends, At the Arab American University Engineering day, 2019
- [3] *Cloud Computing for Office Management*, Palestine Technical University workshop using Hi-Tech for efficient administration, 2019
- [4] Blockchain Current Research, Al-Quds Open University forum on Fintech, 2018
- [5] *Introduction to Blockchain*, Undergraduate Research and Innovation conference, Palestine Technical University, 2018

Funded Research Projects

- [1] EU KA220 HED, Generative AI in Assessment and Feedback Activities of Higher Education Courses/ HEGenAI, Budget=Euro400,00 ; 09/2024 -08/2027
- [2] Erasmus+, CBHE, Bologna for Science Education in Palestine and Jordan, PTUK portion=Euro120,000 ; 2024-2027
- [3] Al-Maqdisi project, AgroChain: Blockchain-Powered Traceability System for a Transparent and Secure Agricultural Value Chain, funded by French ministry of higher education, PTUK portion =Euro 15,000 ; 2023-2025
- [4] Erasmus+, CBHE, Reforming the Governance of PhD Programs at Palestinian Higher Education Institutions (PhDGOV), PTUK portion=Euro90,000; 2023-2026 <u>https://phdgov.najah.edu/en/</u>
- [5] Erasmus+ (VET) project, AgroTechnology VET Centres to Network and Train Future Farmers in Jordan and Palestine (AgroTec), PTUK portion=Euro 56,000 ; 2022 https://nuct.edu.jo/agrotec/about/
- [6] Erasmus+, CBHE project, *Disability as Diversity :The Inclusion of Students with Disabilities in Higher Education (Edu4ALL),* Euro960,379.0 PTUK portion=Euro156,000 ; 11/2020-07/2024, <u>https://edu4all.psdpal.org/</u>

- [7] Al-Maqdisi project, The use of Narrow Band Internet of things (NBIoT) in Healthcare, funded by French ministry of higher education, PTUK portion =Euro 15,000; 2020-2022
- [8] Erasmus+ CBHE project, Pathway in Forensic Computing, 11/2016-06/2020
- [9] Sprout Project by the Ministry of Education (MOE), Taiwan, Network Optimization Lab, National Chiao Tung University, 2010-2014
- [10] Fund from Ministry of Science and Technology (MOST), Taiwan, under Grant MOST 109-2627-H-009-00, Network Optimization Lab, National Chiao Tung University, 2010-2014
- [11] Ministry of Science and Technology, Taiwan grants MOST 110-2627-H-A49-001, Network Optimization Lab, National Chiao Tung University, 2010-2014
- [12] Ministry of Transportation and Communication Grant MOTC-STAO-101-02, Taiwan, Network Optimization Lab, National Chiao Tung University, 2010-2014
- [13] Taiwan National Science Council under Grant NSC101-2628- E-009-014-MY3, Network Optimization Lab, National Chiao Tung University, 2010-2014
- [14] Taiwan National Science Council NSC 94-2520-S-009-004 and 95- 2520-S-009-003, Distributed Computing Systems, National Chiao Tung University, 2005-2007

Trainings (Selected)

- [1] Training on Agriculture Technology (AgorTec project Erasmus+) in University of Nitra, Slovakia 10/2023
- [2] Training on digital Accessibility in the university of the Basque Country, 6-10/03/2023
- [3] Training on Assistive Technologies and digital accessibility for students with disabilities (Edu4ALL project – Erasmus+), at University of Athens, Greece, 10/2021, at INT@E Leipzig Germany 06/2022, Athens 11/2022, and INT@E Leipzig 06/2023
- [4] Online course on Data Science and Engineering, Harvard University, start 10/2021 03/2022
- [5] Forensic Computing (FORC project Erasmus+), University of Cagliari Italy, June/2018
- [6] Digital Forensics (FORC project Erasmus+), Middle sex university, April/2019

Internet of Things and Cloud Computing, Notre Dame Initiative for Global Development, January/2019

<u>Awards</u>

- [1] Palestine Technical University Kadoorie Award for Distinguished Research publication, 2019
- [2] Palestine Technical University Kadoorie Award for Distinguished Research publication, 2020
- [3] Palestine Technical University Kadoorie Award for High Citation and Distinguished Research publication, 2022
- [4] The Best Paper Award from the international conference on Intelligent Transportation Systems Telecommunications (ITST), 2012
- [5] Funp Taiwan, Company Award for outstanding PhD students, 2011
- [6] Industrial Technology Research Institute (ITRI) scholarship for PhD research, Taiwan, 2009
- [7] Computer Science Honor Degree for high academic performance, National Chiao Tung University, Taiwan, October, 2006
- [8] National Chiao Tung scholarship for high academic performance, Taiwan, September 2006.

Research Publications

https://scholar.google.com/citations?user=wtLQddEAAAAJ&hl=en

Journal Articles

- [1] E. Daraghmi, S. Jayousi, Y. Daraghmi, R. Daraghmi and H. Fouchal, "Smart Contracts for Managing the Agricultural Supply Chain: A Practical Case Study," in *IEEE Access*, accepted 07/2024, impact factor = 3.9
- [2] Eman Yaser Daraghmi, Sajida Qadan, Yousef Daraghmi, Rami Yussuf, Omar Cheikhrouhou, Mohammed Baz, "From Text to Insight: An Integrated CNN-BiLSTM-GRU Model for Arabic Cyberbullying Detection," IEEE Access, Volume 12, pp. 103504-103519, 07/2024, impact factor = 3.9
- [3] Muhammed Saffarini, Amjad Rattroot, Yousef-Awwad Daraghmi, Muath Sabha," Automatic Road Roughness Detection and Ranking Using Deep Learning And Computer Vision," *Journal of Theoretical and Applied Information Technology*, Volume 102, issue 13, July, 2024
- [4] Yousef-Awwad Daraghmi, Ibrahim Shawahneh, "Digital Forensic Analysis of Vehicular Video Sensors: Dashcams as a Case, *Sensors*, Volume 23, issue 17, P.P. 1-19, 2023, impact factor = 3.9
- [5] MA Sarwar, YC Lin, Yousef-Awwad Daraghmi, TU İk, YL Li, "Skeleton Based Keyframe Detection Framework for Sports Action Analysis: Badminton Smash Case, *IEEE Access*, Volume 11, P.P. 90891 – 90900, impact factor = 3.9

- [6] Rasha Saffarini, Faisal Khamayseh, Yousef-Awwad Daraghmi, Derar Elyan, Muath Sabha, "Survey of Road Anomalies Detection Methods, International Journal of Intelligent Systems Technologies and Applications, Volume 21, issue 3, 2023, PP. 280-302
- [7] Raed S. M. Daraghma, Yousef Daraghmi, Eman Daraghmi, Hacene Fouchal, Marwan Ayaida, " Comparison of NB-IOT, Lora, and Sigfox IOT Protocols in a Wireless Sensor Network," *International Journal on Communications Antenna and Propagation*, Volume 13, issue 2, P.P. 80-88. 2023
- [8] Sheng-Hsien Cheng; Muhammad Atif Sarwar; Yousef-Awwad Daraghmi; Tsì-Uí İk; Yih-Lang Li, "Periodic Physical Activity Information Segmentation, Counting and Recognition From Video", *IEEE Access*, Volume 11, P.P. 23019-23031, 2023, impact factor = 3.9
- [9] **Yousef Awwad Daraghmi**, Bahaa Yahya, Eman Yaser Daraghmi, "Has ovid-19 Affected Software Usability: Mobile Accounting System As A Case," *Journal of Theoretical and Applied Information Technology*, volume 101, issue 2, 2023
- [10] Yousef-Awwad Daraghmi, Eman Yaser Daraghmi, Raed Daraghma, Hecen Fouchal, Marwane Ayaida, "Edge–Fog–Cloud Computing Hierarchy for Improving Performance and Security of NB-IoT-Based Health Monitoring Systems," *Sensors*, Volume 22, 2022, P.P. 1-17, impact factor = 3.9
- [11] **Yousef-Awwad Daraghmi,** Mamoun Abu Helou, Eman-Yaser Daraghmi, Waheeb Abuulbeh," IoT-Based System for Improving Vehicular Safety by Continuous Traffic Violation Monitoring," *Future Internet*, Volume 14, issue 11, 2022, P.P. 1-17, Q1
- [12] Yousef-Awwad Daraghmi, Eman-Yaser Daraghmi, "RAPD: Rapid and Participatory Application Development of Usable Systems During COVID19 Crisis," *IEEE Access*, Volume 10, 2022, P.P. 93601 – 93614, impact factor = 3.476
- [13] Tzu-Wei Yu, Muhammad Atif Sarwar, Yousef-Awwad Daraghmi, Sheng-Hsien Cheng, Tsi- Ui 'lk, Yih-Lang Li "Spatiotemporal Activity Semantics Understanding Based on Foreground Object Segmentation: iCounter Scenario," *IEEE Access*, Volume 10, 2022, impact factor = 3.9
- [14] Ming-Hong Lin, Muhammad Atif Sarwar, Yousef-Awwad Daraghmi, Tsi- Ui Ik, "On-Shelf Load Cell Calibration for Positioning and Weighing Assisted by Activity Detection: Smart Store Scenario," *IEEE Sensor Journal*, volume 22, issue 4, 2022, impact factor = 3.30
- [15] Eman Daraghmi, Mamoun Abu Helou, **Yousef-Awwad Daraghmi**, "A Blockchain-Based Editorial Management System," *Security and Communication Networks*, Wiley, Hindawi, 2021, P.P. 1-17, impact factor = 1.97
- [16] Anas Ibrahim, Alexander Chefranov, Nagham Hamad, Yousef-Awwad Daraghmi, Ahmad Al-Khasawneh, Joel J. P. C. Rodrigues, "NTRU-Like Random Congruential Public-Key Cryptosystem for Wireless Sensor Networks," *Sensors*, volume 20, issue 16, 2021, impact factor=3.576
- [17] **Yousef-Awwad Daraghmi**, Tsung-Hsiang Wu, Chih-Wei Yi, "Crowdsourcing-based Road Pavement Evaluation and Indexing," *IEEE transaction on Intelligent Transportation Systems*, Volume 23, issue 5, Dec 2020, P.P. 1-12 - impact factor = 6.492
- [18] **Yousef-Awwad Daraghmi,** Eman Yasser Daraghmi, Motaz Daadoo, Samer Alsaadi "Forecasting for Smart Energy: An Accurate and Efficient Negative Binomial Additive Model,"

Indonesian Journal of Electrical Engineering and Computer Science, volume 02, Issue 20, Nov 2020

- [19] Yousef-Awwad Daraghmi, Eman Yasser Daraghmi, Samer Alsaadi, Derar Eleyan, "Accurate and Time-Efficient Negative Binomial Linear Model for Electric Load Forecasting in IoE," *Transactions on Emerging Telecommunications Technologies*, 2019, P.P. 1-14, impact factor = 2.63
- [20] Eman Yasser Daraghmi, Yousef-Awwad Daraghmi, Shyan-Ming Yuan," MedChain: A Design of Blockchain-based System for Medical Records Access and Permissions Management, *IEEE Access*, volume 07, Issue 01, 2019, P.P. 164595-164613, impact factor = 3.9
- [21] Eman Yasser Daraghmi, Yousef-Awwad Daraghmi, Shyan-Ming Yuan,"UniChain: A Design of Blockchain-Based System for Electronic Academic Records Access and Permissions Management", *Applied Sciences*, volume 9, issue 4966, 2019, P.P. 1-27, impact factor = 2.679
- [22] Eman Yasser Daraghmi, **Yousef-Awwad Daraghmi**, "Advanced Diffusion Approach to Dynamic Load-Balancing for Cloud Storage," *International Journal of Parallel and Distributed Systems and Networks*, volume 10, Issue 2/3, 2019, P.P. 1-13, impact factor = 3.57
- [23] Fareed Qararyah, **Yousef-Awwad Daraghmi**, Eman Yasser Daraghmi. "Logistic Regression Based Model for Improving the Accuracy and Time Complexity of ROI's Extraction in Real Time Traffic Signs Recognition System," *Journal of Computer Science Research*, volume 01, issue 01, 2018, P.P. 10-15.
- [24] El-Sayed, H.; Sankar, S.; Yousef-Awwad Daraghmi .; Tiwari, P.; Rattagan, E.; Mohanty, M.; Puthal, D.; Prasad, M. "Accurate Traffic Flow Prediction in Heterogeneous Vehicular Networks in an Intelligent Transport System Using a Supervised Non-Parametric Classifier," *Sensors* 2018, volume18, issue 6, P.P. 1668-1696.
- [25] Motaz Daadoo, Yousef-Awwad Daraghmi, "Smart Water Leakage Detection Using Wireless Sensor Networks," *International Journal of Networks and Communications*, volume 7, issue 1, February 2017, P.P. 1-16.
- [26] Ahmad Hasasneh, Yousef-Awwad Daraghmi, Nabil Hasasneh, "Towards Accurate Real-Time Traffic Sign Recognition Based on Unsupervised Deep Learning of Spatial Sparse Features: A Perspective," International Journal of Computer and Information Technology, volume 06, Issue 01, January 2017, P.P. 32-36
- [27] Motaz Daadoo, Yousef-Awwad Daraghmi, "Design and Implementation of Low Cost Computer Numerical Control-Printed Circuit Boards Drilling Machine," International Journal of Engineering and Innovative Technology (IJEIT), volume 5, Issue 10, April 2016, p. 63 -67
- [28] **Yousef-Awwad Daraghmi**, Ahmad Hasaneh, "Accurate Real-Time Traffic Sign Recognition Based on the Connected Component Labeling and the Color Histogram Algorithms," *International Journal of Signal Processing Systems*, volume 4, issue 5, October 2016, P.P. 417-421.
- [29] **Yousef-Awwad Daraghmi**, Motaz Daadoo, "Improved Dynamic Route Guidance based on Holt-Winters-Taylor method for Traffic Flow Prediction," *International Journal of Traffic and Transportation Engineering*, Volume 4, issue 3, 2015, P.P 75-83.
- [30] **Yousef-Awwad Daraghmi**, Chih-Wei Yi, Tsun-Chieh Chiang, "Negative Binomial Additive Models for Short-Term Traffic Flow Forecasting in Urban Areas," *IEEE transaction on*

Intelligent Transportation Systems, volume 15, issue 2, April 2014, P.P. 784-793. impact factor = 6.492

- [31] **Yousef-Awwad Daraghmi**, Ivan Stojmenovic, Chih-Wei Yi, "Forwarding Methods in Data Dissemination and Routing Protocols for Vehicular Ad Hoc Networks," *IEEE Network*, volume 27, issue 6, November 2013, P.P. 74-79.
- [32] Yousef-Awwad Daraghmi, Ivan Stojmenovic, Chih-Wei Yi, "A Taxonomy of Data Communication Protocols for Vehicular Ad Hoc Networks," *Mobile Ad Hoc Networking: Cutting Edge Directions, Second Edition, Wiley-IEEE Press*, March 2013.
- [33] **Yousef-Awwad Daraghmi**, Chia-Feng Lin, Hsieng-Tang Lin, Shyan-Ming Yuan, "The Construction of Information Gathering with SMS Messages," *WSEAS Transactions on Communications (EI)*, volume 5, issue 6, June 2006, P.P 1208-1213.

Conference Proceedings

- [34] Muhammed Saffarini, Amjad Rattroot, Yousef-Awwad Daraghmi, Muath Sabha," Road Roughness and ranking using Deep learning," 12th International Conference on New Technologies, Artificial Intelligence and Smart Data (INTIS 2024), May, 2024
- [35] **Yousef-Awwad Daraghmi**, "Vehicle Speed Monitoring System Based on Edge Computing," *International Conference on Promising electronic Technologies*, Nov 2021
- [36] Noor Jallad, **Yousef-Awwad Daraghmi**, "Graph Representation for VANETs Based on HashMap of ArrayList and Pairs", *2020 International Conference on Electrical Engineering and Informatics (ICELTICs)*, Aceh, Indonesia, Oct 2020
- [37] Yih-Lang Li, Hong-Chuan Chi, Muhammad Atif Sarwar, **Yousef-Awwad Daraghmi**, Kuan-Wen Liu, Ts`ı-U´ı'lk, "Smart Self-Checkout Carts Based on Deep Learning for Shopping Activity Recognition", *The 21st Asia-Pacific Network Operations and Management Symposium, Korea*, Sep 2020
- [38] Muhammad Atif Sarwar, **Yousef-Awwad Daraghmi**, Kuan-Wen Li, Hong-Chuan Chi, Tsì -Uí İk, Yih-Lang Li, "Smart Shopping Carts Based on Mobile Computing and Deep Learning Cloud Services", 2020 *IEEE Wireless Communications and Networking Conference (WCNC)*, Korea, May 2020.
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