

# Abdelghani Dahou



## Phone

+213 666692136  
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## Languages

Arabic mother tongue  
English moderate  
French moderate  
Chinese moderate

## Publication Topics

Text Mining - NLP  
Deep Learning  
Computer Vision  
Medical Image Processing  
Evolutionary Computation  
Feature Extraction  
NeuroEvolution  
Intrusion Detection

## ABOUT ME

I am Dr. Abdelghani Dahou, an Associate Professor at the University of Ahmed Draia in Adrar, Algeria, and a Postdoctoral Researcher at the School of Computer Science and Technology, Zhejiang Normal University, China. With a Ph.D. in Computer Science from Wuhan University of Technology, my journey in academia and research has been driven by a passion for innovation and growth in the field of machine learning.

My research interests lie at the intersection of deep learning, neural architecture search, and NeuroEvolution. I have a profound commitment to applying these advanced techniques across various domains, including human activity recognition, multi-task learning, meta-learning, image processing, intrusion detection systems, healthcare, medical image processing, and natural language processing. My work aims to contribute to the advancement of computer science by offering novel insights and solutions to complex problems. I have listed among the researchers for the 2% Scientists Worldwide 2024 by Stanford University list (Stanford Elsevier Top Scientists List).

As a dedicated and self-motivated professional, I thrive in collaborative environments and am eager to lead and contribute to projects that push the boundaries of our understanding in computer science. My academic and research endeavors are a testament to my commitment to excellence and my continuous pursuit of professional development.

## Contact

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**Google scholar:** <https://scholar.google.com/citations?user=ttDjZWAAAAJ>

**WOS:** <https://www.webofscience.com/wos/author/record/ACG-1247-2022>

## Education

2015 - 2019	<b>Ph.D.</b> in computer science Wuhan University of Technology	Wuhan, Hubei, China
2014 - 2015	<b>1 year preparation of the Regular Chinese Language Program</b> Wuhan University of Technology	Wuhan, Hubei, China
2012 - 2014	<b>Master</b> in intelligent systems and networks University of Ahmed Draia	Adrar, Algeria
2008 - 2012	<b>Bachelor Degree</b> in networks and computer networks security University of Ahmed Draia	Adrar, Algeria

## Recruitment Activities

- 2023 - Now **Postdoctoral Researcher**  
**School of Computer Science and Technology, Zhejiang Normal University, Jinhua 321004, China.**
- 2020 - 2023 **Associate Professor**  
**Department of mathematics and computer science, faculty of science and technology, university of Ahmed Draia, 01000 Adrar, Algeria.**  
Algorithms and data structures (Bachelor)  
Initiation to research (Master/Ph.D)  
Pattern recognition (Master)
- 2019 - 2023 **Laboratory Member**  
**Laboratory of Sustainable Development and Informatics, university of Ahmed Draia, 01000 Adrar, Algeria.**
- 2019 - 2020 **Assistant Professor**  
**Department of mathematics and computer science, faculty of science and technology, university of Ahmed Draia, 01000 Adrar, Algeria.**  
Algorithms and data structures (Bachelor)

## Academic Experience

- **Reviewer:** Information Fusion, Internet of Things, Engineering Cyber Physical Human Systems, Natural Language Engineering, Computers in Biology and Medicine, Expert Systems With Applications, Computers & Security, Computer Methods in Biomechanics and Biomedical Engineering, Journal of Intelligent & Fuzzy Systems, Applied Artificial Intelligence, IEEE transactions on affective computing, Measurement, Pervasive and mobile computing, Language Resources and Evaluation, Applied Soft Computing, Automatika, IEEE journal of biomedical and health informatics, Artificial intelligence review, Computer methods in biomechanics and biomedical engineering, Computer standards & interfaces, Cybernetics and systems, Neural Computing and Applications, IEEE access, Aerospace, Algorithms, Analytics, Applied sciences, Applied system innovation, Bioengineering, Engineering Reports, Information, Mathematics, Sensors, Sustainability, Systems, Computational Intelligence and Neuroscience, ACM Transactions on Asian and Low-Resource Language Information Processing, African Review of Science, Technology and Development (ARSTD, University of Adrar - Algeria), 16th ACS/IEEE International Conference on Computer Systems and Applications (AICCSA), The 27th International Conference on Computational Linguistics (COLING **2018**), The International Conference on Pattern Recognition Applications and Methods (ICPRAM **2024**).
- **Scientific committee:** A member of the scientific committee of the Start-Up diploma and Patent of invention at the university of Ahmed Draia - Adrar - Algeria **2022-2023**.
- **Book editor:** Elaziz, Mohamed Abd, Mohammed AA Al-qaness, Ahmed A. Ewees, and Abdelghani Dahou. "Recent Advances in NLP: The Case of Arabic." Part of the Studies in Computational Intelligence book series (SCI, volume 874) - **2019**.

## Academic Projects Supervision

- Aspect-based Sentiment Classification Model Employing Dialect Normalization and Deep Learning (Master degree **2021-2022**, University of Adrar - Algeria). Published in **Knowledge 2022**.
- Investigating Cross-lingual Multi-task Learning through Arabic Sentiment Classification (Master degree **2021-2022**, University of Adrar - Algeria).
- Social media event monitoring system: an application to urban resource shortage (Bachelor degree **2021-2022**, University of Adrar - Algeria).
- Social media event monitoring system: an application to environmental changes (Bachelor degree **2021-2022**, University of Adrar - Algeria).
- Social media event monitoring system: an application to traffic security (Bachelor degree **2021-2022**, University of Adrar - Algeria).
- Arabic Hate Speech Classification using Pre-trained Multi-task Learning Models (Master degree **2020-2021**, University of Adrar - Algeria). Published in **Informatics 2021**.
- Impact of Tokenization on Text categorization using Arabic Hadith Resources (Bachelor degree **2020-2021**, University of Adrar - Algeria).

## Awards

- 2024 **Top 2% Scientists Worldwide 2024 by Stanford University** Stanford Elsevier Top Scientists List  
<https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/7>
- 2023 **Ranked first in the Western region in the field of Computer Science for attaining the Associate Professor grade during the Fourth (04th) Session of the Regional University Habilitation Committee.**
- 2019 **Scientific Achievements Award Fund for WHUT Graduate Students**  
**Selected for Chinese Scholarship Council (CSC) Experience China – Capital Trip**
- 2016 **The excellent foreign PhD student in the first CCF Wuhan Computer Innovation Forum at Wuhan university**

## Language Training

- 2014-2015 **HSK (Level 4) Chinese language level examination**
- 2014-2015 **1 year preparation of the Regular Chinese Language Program at Wuhan University of Technology**

## Professional Training

- 2017 **Cisco Associate level** Learning Cisco Associate level courses of network technology in Wuhan ZD Information and Technology Co. Ltd.  
Interconnection of Cisco products.
- 2018 **Cisco Professional level** Learning Cisco Professional level courses of network technology in Wuhan ZD Information and Technology Co. Ltd.  
Routing information protocols, Enhanced interior gateway routing protocols and BGP protocol.

# Publications

2025

Khattap, M.G., Sallah, M., **Dahou, A.**, Abd Elaziz, M., Elgarayhi, A., Aseeri, A.O., Forestiero, A. and Hassan, H.G.E.M.A., Advancing multiple sclerosis diagnosis through an innovative hybrid AI framework incorporating Multi-view ResNet and quantum RIME-inspired metaheuristics. *Ain Shams Engineering Journal* 2025. **(SCI, IF: 6.0)**

2024

Magdy, O., Elaziz, M.A., **Dahou, A.**, Ewees, A.A., Elgarayhi, A. and Sallah, M., Bone scintigraphy based on deep learning model and modified growth optimizer. *Scientific Reports* 2024. **(SCI, IF: 3.8)**

Abd Elaziz, M., Al qaness, M.A., **Dahou, A.**, Al Betar, M.A., Mohamed, M.M., El Shinawi, M., Ali, A. and Ewees, A.A., Digital twins in healthcare: Applications, technologies, simulations, and future trends. *Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery* 2024. **(SCI, IF: 6.4)**

Abdalsalam, M., Li, C., **Dahou, A.** and Kryvinska, N., Terrorism group prediction using feature combination and BiGRU with self-attention mechanism. *PeerJ Computer Science* 2024. **(SCI, IF: 3.8)**

Wu, G., Al-qaness, M.A., Al-Alimi, D., **Dahou, A.**, Abd Elaziz, M. and Ewees, Hyper-spectral image classification using graph convolutional network: A comprehensive review. *Expert Systems with Applications* 2024. **(SCI, IF: 7.5)**

**Dahou, A.**, Abd Elaziz, M., Mohamed, H., Dahou, A.H., Al-qaness, M.A., Ghetas, M., Ewees, A. and Zheng, Z., Linguistic feature fusion for Arabic fake news detection and named entity recognition using reinforcement learning and swarm optimization. *Neurocomputing* 2024. **(SCI Q1, IF: 5.5)**

Al-qaness, M.A., **Dahou, A.\***, Trouba, N.T., Abd Elaziz, M. and Helmi, A.M., TCN-Inception: Temporal Convolutional Network and Inception modules for sensor-based human activity recognition. *Future Generation Computer Systems* 2024. **(SCI, IF: 6.2)**

Jiang, Z., Al-qaness, M.A., Dalal, A.A., Ewees, A.A., Abd Elaziz, M., **Dahou, A.** and Helmi, A.M., Fall Detection Systems for Internet of Medical Things Based on Wearable Sensors: A Review. *IEEE Internet of Things Journal* 2024. **(SCI, IF: 8.2)**

Al-qaness, M.A., Abd Elaziz, M., **Dahou, A.**, Ewees, A.A., Al-Betar, M.A., Shrahili, M. and Ibrahim, R.A., Optimized quantum LSTM using modified electric Eel foraging optimization for real-world intelligence engineering systems. *Ain Shams Engineering Journal* 2024. **(SCI Q1, IF: 6.0)**

Abd Elaziz, M., **Dahou, A.\***, Dahaba, M., ElBeshlawy, D.M., Ewees, A.A., Al-Betar, M.A., Aseeri, A.O., Al-qaness, M.A., Ibrahim, R.A. and Mousa, A., Mandibular condyle detection using deep learning and modified mountaineering team-based optimization algorithm. *Alexandria Engineering Journal* 2024. **(SCI, IF: 6.2)**

MAA Al-qaness, **Dahou, A.\***, M Abd Elaziz, AM Helmi, Human activity recognition and fall detection using convolutional neural network and transformer-based architecture. *Biomedical Signal Processing and Control* 2024. **(SCI, IF: 5.1)**

M Abd Elaziz, **Dahou, A.**, AO Aseeri, AA Ewees, MA Al-qaness, RA Ibrahim, Cross vision transformer with enhanced Growth Optimizer for breast cancer detection in IoMT environment. Computational Biology and Chemistry 2024. **(SCI, IF: 3.1)**

Mohamed, A.F., Saba, A., Hassan, M.K., Youssef, H.M., **Dahou, A.**, Elsheikh, A.H., El-Bary, A.A., Abd Elaziz, M. and Ibrahim, R.A., Boosted Nutcracker optimizer and Chaos Game Optimization with Cross Vision Transformer for medical image classification. Egyptian Informatics Journal 2024. **(SCI Q1, IF: 5.2)**

Lou, C., Al-qaness, M. A., AL-Alimi, D., **Dahou, A.**, Abd Elaziz, M., Abualigah, L., and Ewees, A. A., Land use/land cover (LULC) classification using hyperspectral images: a review. Geo-spatial Information Science 2024. **(SCI, IF: 6)**

Al-qaness, M.A., Zhu, J., AL-Alimi, D., **Dahou, A.**, Alsamhi, S.H., Abd Elaziz, M. and Ewees, A.A., Chest X-ray Images for Lung Disease Detection Using Deep Learning Techniques: A Comprehensive Survey. Archives of Computational Methods in Engineering 2024. **(SCI, IF: 9.7)**

Abdalsalam, M., Li, C., **Dahou, A.** and Kryvinska, N., Terrorism Attack Classification Using Machine Learning: The Effectiveness of Using Textual Features Extracted from GTD Dataset. CMES-Computer Modeling in Engineering & Sciences 2024. **(SCI, IF: 2.4)**

Abd Elaziz, M., Al qaness, M.A., **Dahou, A.**, Alsamhi, S.H., Abualigah, L., Ibrahim, R.A. and Ewees, A.A., Evolution toward intelligent communications: Impact of deep learning applications on the future of 6G technology. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery 2024. **(SCI, IF: 7.8)**

**Dahou, A.**, Ewees, A.A., Hashim, F.A., Al-qaness, M.A., Orabi, D.A., Soliman, E.M., Tag-eldin, E.M., Aseeri, A.O. and Abd Elaziz, M. Optimizing fake news detection for Arabic context: A multitask learning approach with transformers and an enhanced Nutcracker Optimization Algorithm. Knowledge-Based Systems 2023. **(SCI Q1, IF: 8.8)**

**Dahou, A.**, Mabrouk, A., Ewees, A.A., Gaheen, M.A. and Abd Elaziz, M. A social media event detection framework based on transformers and swarm optimization for public notification of crises and emergency management. Technological Forecasting and Social Change 2023. **(SCI Q1, IF: 12)**

**Dahou, A.**, Al-qaness, M.A., Abd Elaziz, M. and Helmi, A.M. MLCNNwav: Multi-level Convolutional Neural Network with Wavelet Transformations for Sensor-based Human Activity Recognition. IEEE Internet of Things Journal 2023. **(SCI Q1, IF: 10.6)**

**Dahou, A.**, Aseeri, A.O., Mabrouk, A., Ibrahim, R.A., Al-Betar, M.A. and Elaziz, M.A. Optimal Skin Cancer Detection Model Using Transfer Learning and Dynamic-Opposite Hunger Games Search. Diagnostics 2023. **(SCI Q1, IF: 3.6)**

**Dahou, A.**, Chelloug, S.A., Alduailij, M., Elaziz, M.A. Improved Feature Selection Based on Chaos Game Optimization for Social Internet of Things with a Novel Deep Learning Model. Mathematics 2023, 11, 1032. **(SCI Q2, IF: 2.592)**

Abd Elaziz, M., **Dahou, A.**, Al-Betar, M.A., El-Sappagh, S., Oliva, D. and Aseeri, A.O. Quantum Artificial Hummingbird algorithm for Feature Selection of Social IoT. IEEE Access 2023. **(SCI Q1, IF: 3.9)**

Abd Elaziz, M., **Dahou, A.**, Mabrouk, A., El-Sappagh, S. and Aseeri, A.O. An efficient artificial rabbits optimization based on mutation strategy for skin cancer prediction. Computers in Biology and Medicine 2023. **(SCI Q1, IF: 7.7)**

Fatani, A., **Dahou, A.**, Abd Elaziz, M., Al-Qaness, M.A., Lu, S., Alfadhli, S.A. and Alresheedi, S.S. MLCNNwav: Enhancing Intrusion Detection Systems for IoT and Cloud Environments Using a Growth Optimizer Algorithm and Conventional Neural Networks. Sensors 2023. **(SCI Q1, IF: 3.9)**

Al-qaness, M.A., Ewees, A.A., Abd Elaziz, M., **Dahou, A.**, Al-Betar, M.A., Aseeri, A.O., Yousri, D. and Ibrahim, R.A. Boosted Barnacles Algorithm Optimizer: Comprehensive Analysis for Social IoT Applications. IEEE Access 2023. **(SCI Q1, IF: 3.9)**

A. Helmi, M. A. Al-qaness, **A. Dahou** and M. Abd Elaziz, "Human activity recognition using marine predators algorithm with deep learning", Future Generation Computer Systems, 2023. **(SCI Q1, IF: 7.307)**

Elaziz, M. A., **Dahou, A.**, Mabrouk, A., Ibrahim, R. A., & Aseeri, A. O. (2023). Medical Image Classifications for 6G IoT-Enabled Smart Health Systems. Diagnostics, 13(5), 834. **(SCI Q2, IF: 3.992)**

M. Abd Elaziz, M. A. Al-qaness, **A. Dahou**, R. A. Ibrahim and A. A. Abd El-Latif, "Intrusion detection approach for cloud and iot environments using deep learning and capuchin search algorithm", Advances in Engineering Software, p. 103 402, 2023. **(SCI Q1, IF: 4.255)**

M. A. Al-qaness, **A. Dahou**, A. A. Ewees et al., "Resinformer: Residual transformer-based artificial time-series forecasting model for pm2. 5 concentration in three major chinese cities", Mathematics, vol. 11, no. 2, p. 476, 2023. **(SCI Q2, IF: 2.592)**

M. A. Elaziz, **A. Dahou**, D. A. Orabi, S. Alshathri, E. M. Soliman and A. A. Ewees, "A hybrid multi-task learning framework with a fire hawk optimizer for arabic fake news detection", Mathematics, vol. 11, no. 2, pp. 1–15, 2023. **(SCI Q2, IF: 2.592)**

2022

**A. Dahou**, M. A. Al-qaness, M. Abd Elaziz and A. Helmi, "Human activity recognition in iohr applications using arithmetic optimization algorithm and deep learning", *Measurement*, vol. 199, p. 111 445, 2022. **(SCI Q1, IF: 5.131)**

**A. Dahou**, M. Abd Elaziz, S. A. Chelloug et al., "Intrusion detection system for iot based on deep learning and modified reptile search algorithm", *Computational Intelligence and Neuroscience*, vol. 2022, 2022. **(SCI Q1, IF: 3.120)**

H. Adel, **A. Dahou**, A. Mabrouk et al., "Improving crisis events detection using distilbert with hunger games search algorithm", *Mathematics*, vol. 10, no. 3, p. 447, 2022. **(SCI Q2, IF: 2.592)**

D. AL-Alimi, M. A. Al-qaness, Z. Cai, **A. Dahou**, Y. Shao and S. Issaka, "Meta-learner hybrid models to classify hyperspectral images", *Remote Sensing*, vol. 14, no. 4, p. 1038, 2022. **(SCI Q1, IF: 5.349)**

M. A. Al-qaness, **A. Dahou**, M. Abd Elaziz and A. Helmi, "Multi-resatt: Multilevel residual network with attention for human activity recognition using wearable sensors", *IEEE Transactions on Industrial Informatics*, 2022. **(SCI Q1, IF: 11.648)**

S. Menasria, M. Lu and **A. Dahou**, "Pgan framework for synthesizing sensor data privately", *Journal of Information Security and Applications*, vol. 67, p. 103 204, 2022. **(SCI Q1, IF: 4.96)**

Y. Almansoub, M. Zhong, A. Raza, M. Safdar, **A. Dahou** and M. A. Al-qaness, "Exploring the effects of transportation supply on mixed land-use at the parcel level", *Land*, vol. 11, no. 6, p. 797, 2022. **(SCI Q2, IF: 3.905)**

M. Abd Elaziz, A. Mabrouk, **A. Dahou** and S. A. Chelloug, "Medical image classification utilizing ensemble learning and levy flight-based honey badger algorithm on 6g-enabled internet of things", *Computational Intelligence and Neuroscience*, vol. 2022, 2022. **(SCI Q1, IF: 3.120)**

M. E. Issa, A. M. Helmi, M. A. Al-Qaness, **A. Dahou**, M. Abd Elaziz and R. Damaševičius, "Human activity recognition based on embedded sensor data fusion for the internet of healthcare things", in *Healthcare*, MDPI, vol. 10, 2022, p. 1084. **(SCI Q2, IF: 3.160)**

A. Mabrouk, R. P. Díaz Redondo, **A. Dahou**, M. Abd Elaziz and M. Kayed, "Pneumonia detection on chest x-ray images using ensemble of deep convolutional neural networks", *Applied Sciences*, vol. 12, no. 13, p. 6448, 2022. **(SCI Q2, IF: 2.838)**

Y. A. Alhaj, **A. Dahou**, M. A. Al-qaness et al., "A novel text classification technique using improved particle swarm optimization: A case study of arabic language", *Future Internet*, vol. 14, no. 7, p. 194, 2022. **(SCI Q2, IF: -)**

A. Mabrouk, **A. Dahou**, M. A. Elaziz, R. P. Díaz Redondo and M. Kayed, "Medical image classification using transfer learning and chaos game optimization on the internet of medical things", *Computational Intelligence and Neuroscience*, vol. 2022, 2022. **(SCI Q1, IF: 3.120)**

M. E. Chennafi, H. Bedlaoui, **A. Dahou** and M. A. Al-qaness, "Arabic aspect-based sentiment classification using seq2seq dialect normalization and transformers", *Knowledge*, vol. 2, no. 3, pp. 388–401, 2022.

A.-A. Dalal, Z. Cai, M. A. Al-qaness, **A. Dahou**, E. A. Alawamy and S. Issaka, "Compression and reinforce variation with convolutional neural networks for hyperspectral image classification", *Applied Soft Computing*, p. 109 650, 2022. **(SCI Q1, IF: 8.263)**

M. A. Elaziz, **A. Dahou**, S. El-Sappagh, A. Mabrouk and M. M. Gaber, "Aha-ao: Artificial hummingbird algorithm with aquila optimization for efficient feature selection in medical image classification", *Applied Sciences*, vol. 12, no. 19, p. 9710, 2022. **(SCI Q2, IF: 2.838)**

M. A. Al-qaness, A. M. Helmi, **A. Dahou** and M. A. Elaziz, "The applications of metaheuristics for human activity recognition and fall detection using wearable sensors: A comprehensive analysis", *Biosensors*, vol. 12, no. 10, p. 821, 2022. **(SCI Q2, IF: 5.743)**

M. A. Al-Qaness, A. A. Ewees, H. V. Thanh, A. M. AlRassas, **A. Dahou** and M. A. Elaziz, "Predicting co2 trapping in deep saline aquifers using optimized long short-term memory", *Environmental Science and Pollution Research*, pp. 1–15, 2022. **(SCI Q1, IF: 5.190)**



## 2021

A. Fesseha, S. Xiong, E. D. Emiru, M. Diallo and **A. Dahou**, "Text classification based on convolutional neural networks and word embedding for low-resource languages: Tigrinya", *Information*, vol. 12, no. 2, p. 52, 2021. **(SCI Q2, IF: -)**

M. Abd Elaziz, **A. Dahou**, L. Abualigah et al., "Advanced metaheuristic optimization techniques in applications of deep neural networks: A review", *Neural Computing and Applications*, vol. 33, no. 21, pp. 14 079–14 099, 2021. **(SCI Q1, IF: 5.102)**

H. Fan, W. Du, **A. Dahou** et al., "Social media toxicity classification using deep learning: Real-world application uk brexit", *Electronics*, vol. 10, no. 11, p. 1332, 2021. **(SCI Q2, IF: 2.690)**

M. Abdalsalam, C. Li, **A. Dahou** and S. Noor, "A study of the effects of textual features on prediction of terrorism attacks in gtd dataset.", *Engineering Letters*, vol. 29, no. 2, 2021.

A. M. Helmi, M. A. Al-Qaness, **A. Dahou**, R. Damaševičius, T. Krilavičius and M. A. Elaziz, "A novel hybrid gradient-based optimizer and grey wolf optimizer feature selection method for human activity recognition using smartphone sensors", *Entropy*, vol. 23, no. 8, p. 1065, 2021. **(SCI Q2, IF: 2.738)**

A. Fatani, M. Abd Elaziz, **A. Dahou** M. A. Al-Qaness and S. Lu, "Iot intrusion detection system using deep learning and enhanced transient search optimization", *IEEE Access*, vol. 9, pp. 123 448–123 464, 2021. **(SCI Q1, IF: 3.476)**

W. Aldjanabi, **A. Dahou**, M. A. Al-qaness, M. A. Elaziz, A. M. Helmi and R. Damaševičius, "Arabic offensive and hate speech detection using a cross-corpora multi-task learning model", in *Informatics*, MDPI, vol. 8, 2021, p. 69. **(SCI Q1, IF: -)**

M. Abd Elaziz, **A. Dahou**, N. A. Alsaleh, A. H. Elsheikh, A. I. Saba and M. Ahmadein, "Boosting covid-19 image classification using mobilenetv3 and aquila optimizer algorithm", *Entropy*, vol. 23, no. 11, p. 1383, 2021. **(SCI Q2, IF: 2.738)**

A. Fatani, **A. Dahou**, M. A. Al-Qaness, S. Lu and M. A. Elaziz, "Advanced feature extraction and selection approach using deep learning and aquila optimizer for iot intrusion detection system", *Sensors*, vol. 22, no. 1, p. 140, 2021. **(SCI Q1, IF: 3.847)**

## 2020

M. Abd Elaziz, M. A. Al-qaness, A. A. Ewees and **A. Dahou**, "Recent advances in nlp: The case of arabic language", 2019.

A. Fesseha, S. Xiong, E. D. Emiru and **A. Dahou**, "Text classification of news articles using machine learning on low-resourced language: Tigrigna", in *2020 3rd International Conference on Artificial Intelligence and Big Data (ICAIBD)*, IEEE, 2020, pp. 34–38.

Y. A. Alhaj, M. A. Al-qaness, **A. Dahou**, M. Abd Elaziz, D. Zhao and J. Xiang, "Effects of light stemming on feature extraction and selection for arabic documents classification", in *Recent Advances in NLP: The Case of Arabic Language*, Springer, Cham, 2020, pp. 59–79.

**2019**

**A. Dahou**, S. Xiong, J. Zhou and M. A. Elaziz, "Multi-channel embedding convolutional neural network model for arabic sentiment classification", *ACM Transactions on Asian and Low-Resource Language Information Processing (TALLIP)*, vol. 18, no. 4, pp. 1–23, 2019. **(SCI Q2, IF: -)**

**A. Dahou**, M. A. Elaziz, J. Zhou and S. Xiong, "Arabic sentiment classification using convolutional neural network and differential evolution algorithm", *Computational intelligence and neuroscience*, vol. 2019, 2019. **(SCI Q1, IF: 3.120)**

Y. A. Alhaj, J. Xiang, D. Zhao, M. A. Al-Qaness, M. Abd Elaziz and **A. Dahou**, "A study of the effects of stemming strategies on arabic document classification", *IEEE Access*, vol. 7, pp. 32 664– 32 671, 2019. **(SCI Q1, IF: 3.476)**

**2017**

**A. Dahou**, S. Xiong, J. Zhou, M. H. Haddoud and P. Duan, "Word embeddings and convolutional neural network for arabic sentiment classification", in *Proceedings of coling 2016, the 26th international conference on computational linguistics: Technical papers*, 2016, pp. 2418–2427.

S. Xiong, X. Wang, P. Duan, Z. Yu and **A. Dahou**, "Deep knowledge representation based on compositional semantics for chinese geography", in *International Conference on Agents and Artificial Intelligence*, SCITEPRESS, vol. 2, 2017, pp. 17–23.

**2016**

M. Omari and **A. Dahou**, "Simulation comparison and analysis of dsr and dymo protocols in manets", in *2016 International Conference on Industrial Informatics and Computer Systems (CIICS)*, IEEE, 2016, pp. 1–6.