

Hayder Y. Yousif

PhD



About me

Highly responsible and adaptable manager with 17 years of experience supporting executives in the academic and IT sectors. An excellent researcher trying to propose novel methods in different AI applications and compete with others. Having long-term with good reputation teaching experience for undergraduate and graduate students. Software and web designer for AI and e-governance transformation.

personal

Hayder Y. Yousif
Nationality: Iraq, 1983
Married, two children

Areas of specialization

Artificial Intelligence • Machine Learning • Image Processing • Video Processing

Hobbies

Farming
electrical installation
Cooking
Sports (tennis, soccer, and jogging)
Watching movies

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@HayderYousif23

haider.jacob

HayderYousif

RECENT RESUMÉ

2021–now

IT Center Manager

SOUTHERN TECHNICAL UNIVERSITY, · IQ

Supervised and developed 21 e-systems that contribute in digital transformation. Established four computer/network labs of 175 student capacity. Made partnerships with CompTIA and several local companies to train students, fresh graduates, and employees on certified IT programs.



2020–2021

Head of the Electrical Engineering Tech. Department

SOUTHERN TECHNICAL UNIVERSITY, · IQ

One of the pioneers in e-learning during and after the COVID-19 pandemic, has a training certificate for professional e-learning from IREX, managed to help university staff and students to set their new roles.



2019–now

University Lecturer

BETC · Basra, IQ

Microprocessor for graduate students- Spring 2020, Cybernetics and neural networks for graduate students- Fall 2020, AI for graduate students- Fall 2021, Fall 2022, and Fall 2023. Numerical and Engineering Analysis for undergraduate studies 2019- till now.



DEGREES

2019

PhD in Computer Engineering

MU UNIVERSITY · MO, USA



2019

Msc. in Engineering

MU UNIVERSITY · MO, USA



2008

Msc. in Computer Engineering

UNIVERSITY OF BASRA, · IQ



2005

Bsc. in Computer Engineering

UNIVERSITY OF BASRA, · IQ



PROGRAMMING

Matlab



L^AT_EX



python







c, c++,c#



php, sql



CURRICULUM

2017–2019	Research Assistant MU UNIVERSITY · Columbia, MO, USA 📍 Working on NFS funded project.	
2010–2013	University Lecturer BETC · Basra, IQ 📍 Teaching Math, Digital signal processing and computer applications for the undergraduate studies.	
2009–2010	NSS Engineer ASIACELL HQ · Basra, IQ 📍 Network switching maintenance for telecommunication system.	
2009–2010	Maintenance Engineer GULF COMMERCIAL BANK · Basra, IQ 📍 Hardware and software maintenance for the banking system	

AWARDS & GRANTS

2020	Wiley (Most downloaded paper 2018 and 2019)
2019	Microsoft Competition (WildCam-2019), ranked the 3rd out of more than 300
2019–2024	More than 15 effort appreciation letters from Chancellors and Deans at STU, Iraq
2017–2019	Grant from Microsoft AI for Earth
2017	Internship at North Carolina Museum of Natural Sciences
2016	Internship at North Carolina Museum of Natural Sciences

LANGUAGES





English	C1	● ● ● ●
Arabic	C2	mother tongue

REVIEWER SUMMARY

(34)	IEEE Transactions on Circuits and Systems for Video Technology
(28)	IEEE Access
(7)	Journal of the ASABE
(6)	Methods in Ecology and Evolution
(4)	Applied Engineering in Agriculture
(2)	IEEE Computer Magazine
(2)	Ecology and Evolution
(2)	The Journal of Engineering
(2)	IEEE Transactions on Industrial Informatics
(1)	Artificial Intelligence Review
(1)	Wildlife Biology
(1)	Concurrency and Computation

PUBLICATIONS

- 2024** Yousif, Hayder, and Zahraa Al-Milaji. "Fault detection from PV images using hybrid deep learning model." *Solar Energy* 267 (2024): 112207.
- 2022** Yousif, Hayder, and Zahraa Al-Milaji. "Hierarchical Feature Mining for Image Classification and Segmentation." In IMDC-IST 2021: Proceedings of 2nd International Multi-Disciplinary Conference Theme: Integrated Sciences and Technologies, IMDC-IST 2021, 7-9 September 2021, Sakarya, Turkey, p. 108. European Alliance for Innovation, 2022.
- 2021** Ahmed A, Yousif H, He Z. Ensemble diversified learning for image classification with noisy labels. *Multimedia Tools and Applications*. 2021 Jun;80:20759-72.
- 2020** Ahmed, Ahmed, Hayder Yousif, Roland Kays, and Zhihai He. "Animal species classification using deep neural networks with noise labels." *Ecological Informatics* 57 (2020): 101063.
- 2019** Ahmed, Ahmed, Hayder Yousif, Roland Kays, and Zhihai He. "Semantic region of interest and species classification in the deep neural network feature domain." *Ecological Informatics* 52 (2019): 57-68.
- 2019** Yousif, Hayder, Jianhe Yuan, Roland Kays, and Zhihai He. "Animal Scanner: Software for classifying humans, animals, and empty frames in camera trap images." *Ecology and evolution* 9, no. 4 (2019): 1578-1589.
- 2019** Yousif, Hayder. "Deep neural networks for animal object detection and recognition in the wild." PhD diss., University of Missouri–Columbia, 2019.
- 2018** Oraibi, Zakariya A., Hayder Yousif, Adel Hafiane, Guna Seetharaman, and Kannappan Palaniappan. "Learning local and deep features for efficient cell image classification using random forests." In 2018 25th IEEE International Conference on Image Processing (ICIP), pp. 2446-2450. IEEE, 2018.
- 2018** Yousif, Hayder, Jianhe Yuan, Roland Kays, and Zhihai He. "Object detection from dynamic scene using joint background modeling and fast deep learning classification." *Journal of Visual Communication and Image Representation* 55 (2018): 802-815.
- 2017** Yousif, Hayder, Zhihai He, and Roland Kays. "Object segmentation in the deep neural network feature domain from highly cluttered natural scenes." In 2017 IEEE International Conference on Image Processing (ICIP), pp. 3095-3099. IEEE, 2017.
- 2017** Yousif, Hayder, Jianhe Yuan, Roland Kays, and Zhihai He. "Fast human-animal detection from highly cluttered camera-trap images using joint background modeling and deep learning classification." In 2017 IEEE international symposium on circuits and systems (ISCAS), pp. 1-4. IEEE, 2017.

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