CURRICULUM VITAE

Dr. Ali Mohamed Abdulshahed



BSc, MSc, PhD

Associate Professor of Artificial Intelligence and Intelligent Control Systems

Head, Department of Artificial Intelligence Engineering – Faculty of Engineering – Misurata University, Libya

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Google Scholar	**ORCID**	**ResearchGate**	**LinkedIn**
user = U4s6PyYAAAAJ	0000-0001-7630-0606	Ali_Abdulshahed	linkedin.com/in/abdulshahed

1,614	17	19	47	37+
Citations	h-index	i10-index	Published Works	AI Workshops & Courses

Source: Google Scholar, 28 October 2026

PROFESSIONAL SUMMARY

Associate Professor and researcher in Artificial Intelligence, Machine Learning, Intelligent Control Systems, Fuzzy Logic and the Internet of Things, holding a PhD in Engineering from the University of Huddersfield, UK, with more than twenty years of academic, research and leadership experience. He is the founding Head of the Department of Artificial Intelligence Engineering at Misurata University (2025–present), Director of the University's Information and Documentation Center, and former Dean of the Faculty of Engineering. He has published 21 articles in international peer-reviewed journals, 10 of them in Q1 journals such as Applied Soft Computing, Applied Mathematical Modelling and Journal of Manufacturing Systems, together with international conference papers and regional journal articles, attracting more than 1,614 citations (h-index 17). He has delivered 37 workshops and training courses on applied AI for education, research, medicine, media and business, supervised 9 master's theses and more than 30 bachelor graduation projects, and contributed to European and international projects including HARCO (FP7), EASE-R3, Fab Lab Libya and several Erasmus+ capacity-building projects.

RESEARCH INTERESTS

Artificial Intelligence & Machine Learning	**Artificial Neural Networks & Deep Learning**	**Adaptive Neuro-Fuzzy Inference Systems (ANFIS)**
Intelligent Control Systems	**Grey Systems Theory & Forecasting**	**Nature-Inspired Optimisation (PSO, Cuckoo Search)**
Multi-Criteria Decision-Making (MCDM)	**IoT & Smart Healthcare**	**Smart Manufacturing & Thermal Error Compensation**
Reinforcement Learning Applications	**AI in Education & Scientific Research**	**Entrepreneurship & Digital Transformation**

EDUCATION

2015	**PhD in Engineering** Centre for Precision Technologies (CPT), School of Computing and Engineering – University of Huddersfield, UK *Thesis: The Application of ANN and ANFIS Prediction Models for Thermal Error Compensation on CNC Machine Tools*
2010	**MSc in Engineering Control Systems and Instrumentation** University of Huddersfield, UK *Awarded with Distinction – Departmental Prize for the Best Student on the programme*
2007	**MSc Diploma in Electric Control Systems** Department of Electrical and Electronic Engineering – University of Misurata, Libya
2002	**BSc in Electrical and Electronic Engineering** University of Sirt (Bright Star University, Brega), Libya

ACADEMIC & LEADERSHIP EXPERIENCE

2025 – Present	**Head of the Department of Artificial Intelligence Engineering** Faculty of Engineering – Misurata University, Libya *Founded the department; designed the BSc programme, course specifications and student handbook; built partnerships and laboratories.*
2022 – Present	**Director, Information and Documentation Center** Misurata University, Libya
2017 – Present	**Associate Professor** Department of Electrical and Electronic Engineering – Faculty of Engineering – Misurata University *Teaching Artificial Intelligence since 2017, together with control, signals and numerical analysis courses; supervising postgraduate research.*
2023 – 2024	**International Professor (online teaching)** UNINETTUNO International University – Rome, Italy *Taught the online course Engineering Algorithms.*
2017 – 2018	**Dean of the Faculty of Engineering** Misurata University, Libya *December 2017 – July 2018.*
2016	**Research Assistant** Centre for Precision Technologies (CPT) – University of Huddersfield, UK *Developed intelligent thermal-error compensation models for CNC machine tools within the HARCO project (February – August 2016).*
2005 – 2008	**Registrar of the Faculty of Engineering** Misurata University, Libya
2002 – 2008	**Assistant Lecturer** Department of Electrical and Electronic Engineering – Faculty of Engineering – Misurata University

TEACHING EXPERIENCE

Undergraduate

- Artificial Intelligence (taught more than five times)
- Signals and Systems
- Numerical Analysis
- Physics II

Postgraduate & International

- Data Mining (MSc)
- Forecasting Methods (PhD)
- Research Methods
- Numerical Analysis (Postgraduate)

- Electrical Motor Drives
- Programmable Logic Controllers (PLC)
- Computer Applications
- Principles of Computer Science
- Control Systems Laboratory
- Engineering Drawing and CAD Laboratory
- CNC Machining
- Engineering Algorithms – UNINETTUNO International University

SUPERVISION

Master's Theses (9)

Year	Thesis Title	Student	Programme / Institution
2026	Deep Reinforcement Learning for the Berth Allocation Problem: A Case Study of Misurata Free Zone Port	Inas Ismail	Libyan Academy for Postgraduate Studies – Misurata Branch
2026	State of Charge Estimation for Electric Vehicle Lithium-Ion Batteries Using Multi-Layer Perceptron Neural Networks	Abdulrahman Miftah Alajnaf	Faculty of Industrial Technology – Misurata
2025	Enhancing Pediatric Cardiac Murmur Diagnosis through AI and Wavelet Transform: A Comprehensive Research Study	Nadia Miftah Algolaib	Information Technology – Libyan Academy for Postgraduate Studies – Misurata Branch
2024	Designing a Predictive Maintenance Methodology for the Maintenance Department of the Misurata Free Zone	Albashir Mukhtar Milad Bin Ghazi	Mechanical and Energy Engineering – Libyan Academy for Postgraduate Studies – Misurata Branch
2024	Prediction of Surface Roughness in Additive Manufacturing Using Artificial Neural Networks	Fatima Abduljalil Wafa	Mechanical and Energy Engineering – Libyan Academy for Postgraduate Studies – Misurata Branch
2024	Offline Recognition System for Arabic Handwritten Words Using Neural Networks	Morouj Mohamed Makhlouf	Faculty of Information Technology – Misurata University
2024	IoT-Based Smart Healthcare System for Human Activity Recognition	Sara Jibril Makhlouf	Faculty of Information Technology – Misurata University
2024	Effect of the Accumulated Generating Operation (AGO) Order on the Grey Model GM(1,1): Forecasting the Exchange Rate in the Libyan Market	Wafa Mustafa Alshuwairif	Applied Mathematics – Libyan Academy for Postgraduate Studies – Misurata Branch
2023	Estimation of Grey Model GM(1,1) Coefficients using Particle Swarm Optimization (COVID-19 in Libya as a Case Study)	Najwa Mohamed Abdulsadiq	Applied Mathematics – Libyan Academy for Postgraduate Studies – Misurata Branch

Bachelor Graduation Projects

30+
projects

Supervised more than 30 bachelor graduation projects in artificial intelligence, machine learning, the Internet of Things, industrial automation and control systems at the Faculty of Engineering, Misurata University.

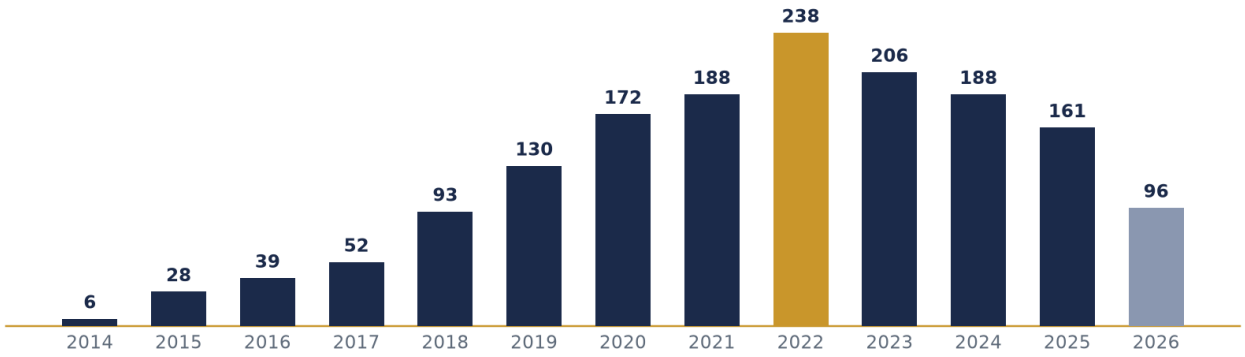
INTERNATIONAL PROJECTS & GRANTS

Project	Funding Body	Role & Scope
HARCO	European Commission – FP7	Hierarchical and Adaptive smaRt COmponents for precision production systems: designed tests and experimental set-ups, analysed data in MATLAB, and developed an intelligent thermal-error compensation model fusing temperature sensors with Fibre Bragg Grating (FBG) strain measurements.
EASE-R3	European Commission	Integrated framework for cost-effective, easy repair, renovation and re-use of machine tools within modern factories.
Fab Lab Libya	UK Government – implemented by Expertise France	Network of local digital-fabrication labs supporting innovation and entrepreneurship in Libya.
ARMONIA	European Union – Erasmus+ (2024 – 2028)	Strengthening the Libyan higher-education system.
IBTIKAR	European Union – Erasmus+	Supporting innovation in Libyan higher education.
SAHA	European Union – Erasmus+	Supporting master's programmes in Libya, including Digital Media.
LibyaUp	European Union – Erasmus+	Developing the Libyan education system.
ACT	European Union – Erasmus+	Communication and networking within the Libyan education system.

PUBLICATIONS

Metric	All	Since 2021
Citations	1,614	1,079
h-index	17	14
i10-index	19	18

Citations per year – Google Scholar (2026 to date; gold bar = highest year)



◆ A. International Peer-Reviewed Journal Articles (21)

[1] **A.M. Abdulshahed,** F. Wafa (2025). **Surface roughness prediction in additive manufacturing: presenting the power of neural networks compared to linear regression.** *Journal of Advanced Manufacturing Systems, 24(01), 69–88.* ▪ SJR Q3 | Cited by 7

[2] I. Badi, **A. Abdulshahed,** E. Alghazel (2023). **Using Grey-TOPSIS approach for solar farm location selection in Libya.** *Reports in Mechanical Engineering, 4(1), 80–89.* ▪ SJR Q1 | Cited by 30

[3] I. Badi, A. Alosta, O. Elmansouri, **A. Abdulshahed,** S. Elsharief (2023). **An application of a novel grey-CODAS method to the selection of hub airport in North Africa.** *Decision Making: Applications in Management and Engineering, 6(1), 18–33.* ▪ SJR Q1 | Cited by 33

[4] I. Badi, **A. Abdulshahed** (2023). **Unlocking economic opportunities: Libya as a maritime gateway for landlocked African countries.** *African Transport Studies, 1, 100004.* ▪ Cited by 7

[5] **A.M. Abdulshahed,** I. Badi (2023). **Optimizing remaining useful life estimation of lithium-ion batteries: a particle swarm optimization-based grey prediction model.** *Journal of Energy: Energija, 72(3), 8–13.* ▪ Cited by 1

[6] I. Badi, **A. Abdulshahed** (2021). **Sustainability performance measurement for Libyan iron and steel company using rough AHP.** *Journal of Decision Analytics and Intelligent Computing, 1(1), 22–34.* ▪ Cited by 41

[7] I. Badi, **A. Abdulshahed,** A. Shetwan, W. Eltayeb (2019). **Evaluation of solid waste treatment methods in Libya by using the analytic hierarchy process.** *Decision Making: Applications in Management and Engineering, 2(2), 19–35.* ▪ SJR Q1 | Cited by 43

[8] I. Badi, **A. Abdulshahed** (2019). **Ranking the Libyan airlines by using full consistency method (FUCOM) and analytical hierarchy process (AHP).** *Operational Research in Engineering Sciences: Theory and Applications, 2(1).* ▪ SJR Q1 | Cited by 157

[9] **A. Abdulshahed,** I. Badi (2018). **Prediction and control of the surface roughness for the end milling process using ANFIS.** *Operational Research in Engineering Sciences: Theory and Applications, 1(1).* ▪ SJR Q1 | Cited by 19

[10] M. Eshtaiwi, I. Badi, **A. Abdulshahed,** T.E. Erkan (2018). **Determination of key performance indicators for measuring airport success: A case study in Libya.** *Journal of Air Transport Management, 68, 28–34.* ▪ SJR Q1 | Cited by 106

[11] I. Badi, **A.M. Abdulshahed,** A. Shetwan (2018). **A case study of supplier selection for a steelmaking company in Libya by using the Combinative Distance-based ASsessment (CODAS) model.** *Decision Making: Applications in Management and Engineering, 1(1), 1–12.* ▪ SJR Q1 | Cited by 123

[12] I.A. Badi, **A.M. Abdulshahed,** A. Shetwan, M.A. Ballem (2018). **A grey-based assessment approach to the site selection of a desalination plant in Libya.** *Grey Systems: Theory and Application, 8(3), 366–379.* ▪ SJR Q2 | Cited by 13

[13] I. Badi, Ž. Stević, **A. Abdulshahed,** Ž. Erceg (2018). **OPTIMIZATION OF MUNICIPAL WASTE MANAGEMENT IN LIBYA.** *Modern Problems of Russian Transport Complex, 8(1), 12–19.* ▪ Cited by 3

[14] M. Kridish, K. Harhour, **A. Abdulshahed,** I. Badi (2018). **LOGISTICAL CHALLENGES FACING SOLID WASTE MANAGEMENT IN LIBYA.** *Transport & Logistics, 18(45).* ▪ Cited by 3

[15] **A.M. Abdulshahed,** I.A. Badi, M.M. Blaow (2017). **A grey-based decision-making approach to the supplier selection problem in a steelmaking company: a case study in Libya.** *Grey Systems: Theory and Application, 7(3), 385–396.* ▪ SJR Q2 | Cited by 34

[16] M.I. Eshtaiwi, I.A. Badi, **A.M. Abdulshahed,** T.E. Erkan (2017). **Assessment of airport performance using the grey theory method: A case study in Libya.** *Grey Systems: Theory and Application, 7(3), 426–436.* ▪ SJR Q2 | Cited by 27

[17] **A.M. Abdulshahed,** A.P. Longstaff, S. Fletcher (2017). **A cuckoo search optimisation-based Grey prediction model for thermal error compensation on CNC machine tools.** *Grey Systems: Theory and Application, 7(2), 146–155.* ▪ SJR Q2 | Cited by 21

[18] **A.M. Abdulshahed,** F.M. Alabyad, H.A. Goohe, M.A. Saed (2017). **Early Detection of Diabetes Using Thermography and Artificial Neural Networks.** *International Journal of Computational and Neural Engineering, 4(2), 71–75.* ▪ Cited by 6

[19] **A.M. Abdulshahed,** A.P. Longstaff, S. Fletcher, A. Potdar (2016). **Thermal error modelling of a gantry-type 5-axis machine tool using a Grey Neural Network Model.** *Journal of Manufacturing Systems, 41, 130–142.* ▪ SJR Q1 | Cited by 157

[20] **A.M. Abdulshahed,** A.P. Longstaff, S. Fletcher, A. Myers (2015). **Thermal error modelling of machine tools based on ANFIS with fuzzy c-means clustering using a thermal imaging camera.** *Applied Mathematical Modelling, 39(7), 1837–1852.* ▪ SJR Q1 | Cited by 215

[21] **A.M. Abdulshahed,** A.P. Longstaff, S. Fletcher (2015). **The Application of ANN and ANFIS Prediction Models for Thermal Error Compensation on CNC Machine Tools.** *Applied Soft Computing, 27, 158–168.* ▪ SJR Q1 | Cited by 411

◆ B. International Conference Papers (10)

[22] **A.M. Abdulshahed,** F. Wafa (2024). **Dominance of Neural Networks in Additive Manufacturing Surface Roughness Control.** *2024 IEEE 4th International Maghreb Meeting of the Conference on Sciences and Techniques of Automatic Control and Computer Engineering (MI-STA).*

[23] H. Saadi, **A.M. Abdulshahed** (2024). **Reinforcement Learning Applications in Medical Imaging.** *2024 8th International Conference on Image and Signal Processing and their Applications (ISPA), IEEE.* ▪ Cited by 2

[24] **A.M. Abdulshahed** (2019). **Odour Identification Using Machine Learning Techniques.** *International Conference on Technical Sciences (ICST2019).*

[25] I. Badi, A.G. Shetwan, **A.M. Abdulshahed** (2017). **Supplier selection using COmbinative Distance-based ASsessment (CODAS) method for multi-criteria decision-making.** *Proceedings of the 1st International Conference on Management, Engineering and Environment (ICMNEE).* ▪ Cited by 46

[26] **A.M. Abdulshahed,** F. Alabyad, H. Goohe, M. Saed (2017). **Early diagnostic of diabetes using thermal imaging camera and artificial neural networks.** *1st Conference of Industrial Technology (CIT2017).*

[27] **A. Abdulshahed,** A.P. Longstaff, S. Fletcher (2015). **A particle swarm optimisation-based Grey prediction model for thermal error compensation on CNC machine tools.** *Laser Metrology and Machine Performance XI (LAMDAMAP 2015), 369–378.* ▪ Cited by 17

[28] **A.M. Abdulshahed,** A.P. Longstaff, S. Fletcher (2014). **A novel approach for ANFIS modelling based on Grey system theory for thermal error compensation.** *2014 14th UK Workshop on Computational Intelligence (UKCI), IEEE, 1–7.* ▪ Cited by 9

[29] A. Potdar, A.P. Longstaff, S. Fletcher, **A. Abdulshahed** (2014). **Development of modular machine tool structural monitoring system.** *Proceedings of the International Conference on Advanced Manufacturing Engineering and Technologies.* ▪ Cited by 3

[30] **A. Abdulshahed,** A.P. Longstaff, S. Fletcher, A. Myers (2013). **Application of GNNMCI(1, N) to environmental thermal error modelling of CNC machine tools.** *3rd International Conference on Advanced Manufacturing Engineering and Technologies, KTH Royal Institute of Technology, 253–262.* ▪ Cited by 25

[31] **A. Abdulshahed,** A.P. Longstaff, S. Fletcher, A. Myers (2013). **Comparative study of ANN and ANFIS prediction models for thermal error compensation on CNC machine tools.** *LAMDAMAP 10th International Conference, 79–89.* ▪ Cited by 38

◆ C. Regional Journal Articles (in English) (6)

[32] N. Algolaib, **A. Abdulshahed** (2024). **Exploring the potential of using discrete wavelet transform (DWT) for heart sound analysis.** *The International Journal of Engineering & Information Technology (IJEIT), 12.* ▪ Cited by 2

[33] F. Wafa, **A.M. Abdulshahed** (2021). **Prediction of surface roughness in additive manufacturing using artificial neural networks.** *The International Journal of Engineering & Information Technology (IJEIT).* ▪ Cited by 8

[34] M.M. Makhlouf, **A.M. Abdulshahed** (2021). **Offline Recognition System for Arabic Handwritten Words Using Artificial Neural Networks.** *The International Journal of Engineering & Information Technology (IJEIT), 9.*

[35] **A.M. Abdulshahed** (2021). **COMPENSATION OF MACHINE TOOL THERMAL ERROR BASED ON VIRTUAL SENSORS.** *Journal of Alasmarya University: Basic and Applied Sciences, 6(5), 607–620.*

[36] S. Makhluf, **A.M. Abdulshahed** (2020). **Internet of Things for Libya Healthcare System: Challenges and Issues.** *Academic Research Journal.* ▪ Cited by 1

[37] I. Badi, **A.M. Abdulshahed,** A. Alturas (2019). **Efficient evaluation of flatness error from Coordinate Measurement Data using Cuckoo Search optomisation algorithm.** *Journal of Academic Research, 14, 524–538.* ▪ Cited by 3

◆ D. Journal Articles in Arabic (titles translated) (9)

[38] I. Badi, **A.M. Abdulshahed** (2023). **Using the particle swarm algorithm for enhanced optimisation in solving some benchmark mathematical equations.** *Journal of Academic Research, 27, 1–6.* [in Arabic]

[39] **A.M. Abdulshahed,** M.B. Abugharsa (2023). **A grey-theory-based decision-making approach for selecting online video-conferencing tools: a case study in Libya.** *Journal of Economic Studies, 6(3), 119–131.* [in Arabic]

[40] M. Abugharsa, **A.M. Abdulshahed** (2023). **Using the Technology Acceptance Model (TAM) to measure the factors affecting the use of e-health services in Misurata.** *Scientific Journal of Faculty of Education, Misurata University, 10 (Special Issue).* [in Arabic]

[41] N. Abdulsadiq, **A. Abdulshahed** (2022). **Using the grey model to forecast COVID-19 cases.** *The International Journal of Engineering & Information Technology (IJEIT), 10.* [in Arabic]

[42] N. Abdulsadiq, **A. Abdulshahed** (2022). **Optimisation using the particle swarm algorithm.** *The International Journal of Engineering & Information Technology (IJEIT), 10.* [in Arabic]

[43] K.M. Bazina, F.A. Alkrik, **A.M. Abdulshahed** (2021). **Optimisation of Wi-Fi networks using nature-inspired techniques.** *Journal of Academic Research, 17, 86–94.* [in Arabic]

[44] I. Badi, **A.M. Abdulshahed** (2020). **Landfill site selection using multi-criteria decision modelling: a case study in Misurata, Libya.** *Journal of Academic Research.* [in Arabic]

[45] H.A. Abuoud, A.A. Aldarrat, **A.M. Abdulshahed** (2020). **Smart Internet of Things in healthcare.** *Journal of Academic Research, 15, 1–19.* [in Arabic]

[46] **A.M. Abdulshahed,** Z.S. Almuntaser, I.A. Badi (2019). **Fault diagnosis using the continuous wavelet transform.** *Journal of Academic Research, 13, 56–74.* [in Arabic]

◆ E. Doctoral Thesis (1)

[47] **A.M. Abdulshahed** (2015). **The Application of ANN and ANFIS Prediction Models for Thermal Error Compensation on CNC Machine Tools.** *PhD Thesis, University of Huddersfield, United Kingdom.*

◆ F. Preprints & Manuscripts Under Review (3)

[48] **A.M. Abdulshahed** (2023). **A novel framework leveraging prompt engineering and the grey-based approach – a case study in Libya.** *SSRN Preprint 4492606.* ▪ Cited by 3

[49] I. Husien, **A.M. Abdulshahed** (2026). **A Deep Reinforcement Learning Framework for the Dynamic Berth Allocation Problem: A Case Study of the Misurata Free Zone Port.** *SSRN Preprint 6384608.*

[50] A.M. Alsagoutri, **A.M. Abdulshahed** (2026). **Wi-Fi CSI-based Personalized Digital Twin Framework for Contactless Residential Health Monitoring Using a Raspberry Pi 4B.** *Manuscript under review.*

AI WORKSHOPS & TRAINING DELIVERED (37)

Delivered workshops, training courses and invited talks promoting AI literacy and the use of AI tools in education, scientific research, medicine, media, architecture, languages and business – both in person and online – for audiences ranging from

school pupils to PhD students, faculty members and professionals; one online course alone was attended by more than 300 trainees.

#	Date	Workshop / Course	Organiser
1	20 Apr 2025	Fundamentals of AI Tools	Al-Ehtiraf Training and Consulting
2	16 Apr 2025	AI in Scientific Research	Al-Daleel Al-Mutamayez College
3	14 Apr 2025	Artificial Intelligence in Architecture	Department of Architecture – Faculty of Engineering – Misurata University
4	14 Apr 2025	Using AI Tools in Scientific Research	Al-Ehtiraf Training and Consulting
5	08 Mar 2025	AI and Education: Revolution or Threat? A Vision for Future Classrooms	Misurata Ramadan Evenings
6	Mar 2025	AI and the Future of Educational Values (panel contribution)	Faculty of Arts – Misurata University
7	24 Feb 2025	Integrating AI into Language Learning and Translation	Faculty of Languages and Translation – Misurata University
8	18 Feb 2025	Using AI Tools in Scientific Research	Al-Ehtiraf Training and Consulting
9	31 Dec 2024	Leveraging AI to Improve Personal and Professional Productivity	Al-Razi University
10	01 Sep 2024	Marketing in the Age of AI (4-day intensive course)	Al-Bayan Center
11	25 Aug 2024	Entrepreneurship in the Age of AI	Misurata Chamber of Commerce and Industry
12	25 Aug 2024	Employing AI in Media	Misurata Oncology Center
13	24 Aug 2024	Using AI Methods in Scientific Research	Misurata Medical Center
14	03 Aug 2024	Using AI Tools in Scientific Research (online)	Distinguished Technical Researcher Programme
15	29 Jul 2024	Employing AI in Media Research	Faculty of Media – Misurata University
16	16 Jul 2024	Using AI Tools in Scientific Research (300+ online trainees)	Distinguished Arab Researcher Programme 2
17	30 Jun 2024	Employing AI in Scientific Research	Faculty of Economics – Misurata University
18	08 Jun 2024	Artificial Intelligence in Medicine	Misurata Medical Conference – Al-Thaj Hotel
19	01 Jun 2024	Artificial Intelligence in the Humanities	Faculty of Education – Misurata University
20	30 Apr 2024	Artificial Intelligence	Faculty of Science – Misurata University
21	30 Apr 2024	AI Tools for Scientific Research (online)	Distinguished Researcher Training Programme
22	28 Apr 2024	Artificial Intelligence	Faculty of Islamic Studies – Misurata University
23	20 Mar 2024	Artificial Intelligence	Egzair Scientific Library
24	08 Feb 2024	The University in the Age of Artificial Intelligence	Misurata University
25	31 Jan 2024	AI Applications in Scientific Research	Libyan Academy – Misurata Branch
26	24 Jan 2024	AI Applications in Teaching and Learning (PhD students)	Libyan Academy – Misurata
27	18 Jan 2024	AI Applications in Training and Content Creation	Psycho Care Center
28	17 Jan 2024	AI Applications in Scientific Research	21st Conference of the Libyan Surgeons Society
29	16 Jan 2024	AI Applications in Scientific Research	Faculty of Education – Misurata University
30	09 Jan 2024	AI Applications in Scientific Research	Faculty of Economics and Political Science – Misurata University
31	20 Dec 2023	AI Applications in Education (invited talk)	1st International Conference on Education – Libyan Academy
32	16 Dec 2023	AI and Advanced Technology: Geographic Information Systems as a Model	Faculty of Arts – Misurata University
33	03 Sep 2023	AI Applications in Higher Education	Faculty of Engineering – Misurata University
34	02 Aug 2023	Artificial Intelligence – Workshop for School Students	Al-Naba Al-Yaqeen School
35	15 Jun 2023	Prompt Engineering	Faculty of Medicine – Misurata University
36	2023	Storytelling with Data	Misurata Ramadan Evenings – Cultural Café
37	20 Dec 2022	Artificial Intelligence and Future Prospects	Faculty of Industrial Technology – Misurata

OTHER WORKSHOPS & COURSES DELIVERED

Year	Activity	Organiser
2021	Digital Marketing Workshop	Faculty of Engineering – Misurata University
2021	Digital Workplace Skills: business email, cloud storage, shared calendars and virtual meetings	Afaglibya Training Center
2020	Digital Marketing Workshop	Misurata Chamber of Commerce, Agriculture and Industry
2020	Microcontroller (Arduino) Training Course	Afaglibya Training Center
2019	Digital Marketing Workshop for Fab Lab students	Expertise France – Fab Lab Libya Project

PROFESSIONAL DEVELOPMENT & INTERNATIONAL MOBILITY

Year	Programme	Host / Location
2023	Erasmus+ Teaching Staff Mobility (10 – 14 July)	University of Pavia – Italy
2022	Erasmus+ Teaching Staff Mobility (3 – 7 October)	University of Pavia – Italy
2021	Libyan Entrepreneurship Programme (29 March – 2 April)	Expertise France – Tunisia
2019	Fab Lab project training at the equipment supplier (24 – 25 October)	Expertise France – Valenciennes, France
2019	Training of Libyan professors in entrepreneurship and business development (16 – 20 September)	Expertise France – Tunisia
2014	CNC Machine Tool Operator	University of Huddersfield – UK
2007	Computer Hardware Maintenance	Department Electric Lab – TQ Company, UK

INTERNATIONAL COLLABORATION

Institution	Collaborators / Scope
University of Huddersfield – UK	Prof. Andrew P. Longstaff, Dr. Simon Fletcher
Atilim University – Turkey	Prof. Turan E. Erkan
University of East Sarajevo – Bosnia and Herzegovina	Assoc. Prof. Željko Stević, Prof. Živko Erceg
UNINETTUNO University / University of Pavia – Italy	International teaching and Erasmus+ staff mobility
Misurata University – Libya	Prof. Mohamed A. Ballem, Dr. Ibrahim Badi, Dr. Ali Shetwan, Dr. Omar Elmansouri, Dr. Ahmed Alturas, Dr. Morouj Makhlouf

PEER REVIEW & ACADEMIC SERVICE

Reviewer for the following international journals:

- Applied Soft Computing – Elsevier
- Applied Mathematical Modelling – Elsevier
- Mechanical Systems and Signal Processing – Elsevier
- Applied Sciences – MDPI
- Hacettepe Journal of Mathematics and Statistics
- Member of research and academic networks in artificial intelligence and intelligent control.
- Contributed to curriculum development and the integration of AI education into engineering programmes at Misurata University.

AWARDS & SCHOLARSHIPS

2015	**Heidenhain (GB) Scholarship for precision-engineering research** United Kingdom
2010	**Departmental Prize for the Best Student, MSc Engineering Control Systems and Instrumentation** University of Huddersfield – UK

TECHNICAL SKILLS & LANGUAGES

Area	Details
Programming	Python, MATLAB, C++, JavaScript, PHP, HTML
AI & Modelling Tools	TensorFlow, Scikit-learn, ANFIS, Neural Networks, Grey Models GM(1,1), PSO, Cuckoo Search
Decision-Making	AHP, Rough AHP, FUCOM, CODAS, Grey-CODAS, Grey-TOPSIS
Hardware & Embedded	Arduino, Microcontrollers, PLC, CNC Machine Tools, FBG Sensors, Thermal Imaging
Languages	Arabic (native), English (fluent)

I certify that the information above is accurate; supporting documents are available upon request.

Dr. Ali Mohamed Abdulshahed – Misurata, October 2026

كليـة الهندسـة
Faculty of Engineering