

Dr. Ahmed Anwer Abdullah

PhD in Computer Engineering · Smart Cities · AI · Cybersecurity

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PROFILE

Assistant Director of the National Center for Spatial Data Management at the Iraqi National Security Advisory, with four years of service. Holds a PhD in Computer Engineering and brings together software engineering, spatial systems, artificial intelligence and cybersecurity in the service of smart cities. Author of five published papers, two of them with Springer. Has worked on committees for digital space, sustainable cities, smart cities, urban planning, drones and satellites in Iraq. Between 2023 and 2025 he took part in numerous international conferences and workshops, many of them official missions on behalf of the state.

PROFESSIONAL EXPERIENCE

Assistant Director, National Center for Spatial Data Management · National Security Advisory, Iraq — Present

- Served on the preparatory committees of the 4th and 5th International Conferences on Geospatial Technologies and Smart Cities.
- Speaker at workshops on spatial technologies, security and planning.
- Supervises training courses and workshops in spatial intelligence, drones, satellites, cybersecurity, ArcGIS and ArcGIS Pro.

EDUCATION

PhD in Computer Engineering · Lebanese University, Doctoral School of Science and Technology — 2025

Research across software, engineering and spatial systems, with AI and cybersecurity for smart cities.

MSc in Software Engineering · Al-Isra University, Jordan — 2019

BSc in Computer Engineering · Al-Rafidain University, Iraq — 2013

COMMITTEE WORK

- Digital Space Committee
- Smart Cities Committee
- Drones Committee
- Spatial Data Regulation Committee
- Sustainable Cities Committee
- Urban Planning Committee of Iraq
- Satellites Committee

PROFESSIONAL MEMBERSHIPS

- Member, Engineers Syndicate
- Member, Industrial Advisory Council
- Member, Journalists Syndicate

CONFERENCES & INTERNATIONAL ENGAGEMENT

Took part in numerous conferences, workshops and events during 2023, 2024 and 2025 in Russia, the United States, Germany, Spain, the United Arab Emirates, Oman, Egypt, Jordan, Istanbul and Sulaymaniyah, many of them official missions on behalf of the state.

PUBLICATIONS

Published under the names Ahmed Anwer Al Jumaili and Ahmed A. Abdullah. Co-authors: Kifah Tout and Zaid F. Makki.

Enhanced Data Analysis from GIS as a Smart City by Machine Learning

Integrates spatial information systems with weighted Support Vector Machines for smart-city prediction, reaching 90% accuracy.
SSRG International Journal of Electronics and Communication Engineering, 12(1), 92–103, 2025.
doi:10.14445/23488549/IJECE-V12I1P107

Cybersecurity Approaches for Safeguarding GIS and IoT Systems in Smart Cities

Real-time encryption for spatial data carried over IoT networks, using 2D vector distribution and encryption keys.
Journal of Information Systems Engineering and Management, 10(42s), 120–131, 2025.
doi:10.52783/jisem.v10i42s.7861

ICT-Based Smart Cities Planning: A Case Study of Rashid Camp

Innovative Computing and Communications (ICICC 2024), Vol. 2, Springer, LNNS 1021, 263–276, 2024.
doi:10.1007/978-981-97-3591-4_22

GIS-Based Assessment of Criminal Networks: Drug Trafficking in Iraq

Innovative Computing and Communications (ICICC 2024), Vol. 5, Springer, LNNS, 49–62, 2024.
doi:10.1007/978-981-97-4149-6_4

Integrating Intelligent Remote Sensing Technologies for Urban Master Planning: A Case Study of Rashid Camp

Applies spatial systems, GPS and remote sensing to redevelop Baghdad's Rashid Camp as a smart city while preserving its historical character.
Journal Port Science Research, 6 (special issue), 174–185, 2023. doi:10.36371/port.2023.special.20

SKILLS

Spatial: ArcGIS · ArcGIS Pro · Spatial information systems · Remote sensing · Spatial intelligence · Spatial data management and regulation

AI & Data: Machine learning · Support Vector Machines · Spatial AI · Spatial analysis and prediction

Security: Cybersecurity · Data encryption for spatial systems and IoT · Online extortion response

Applied Domains: Smart cities · Sustainable cities · Urban planning · Drones · Satellites

Leadership: Training supervision · Conference preparation · Institutional performance measurement · Team building

Languages: Arabic · English

CERTIFICATIONS & TRAINING

Applications of Artificial Intelligence in Developing Digital Media	Jul 2024
Applications of Spatial Intelligence (GEO AI)	Jul 2024
Spatial Artificial Intelligence	May 2024
Employee Performance Evaluation	Jan 2024
Measuring Institutional Performance in Universities (40 hours)	Nov 2023
Artificial Intelligence and Its Applications in Education (40 hours)	Oct 2023
Teaching Methods for Pedagogical Qualification, 206th course	Nov 2022
Certificate of Appreciation: preparing the Team Building course	Sep 2022

SEMINARS & LECTURES

Optimization and AI for More Intelligent Ports Logistics · Lebanese University	May 2023
Ocean Modelling in the Eastern Mediterranean · American University of Beirut	May 2023
Cloud Orchestration: Behind the Scenes · Online	Mar 2023
Smart City and Spatial Information Systems · Lebanese University	Oct 2022
Artificial Intelligence for the Edge Computing Paradigm · Lebanese University	Sep 2022
CIMPA Research School: Graph Theory and Interactions · Lebanese University, Beirut	Jun 2022