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|  | Personal Information | |
| **Name: Shaheen Abdullah Abdulkareem**  **Scientific Title: Lecturer (PhD)**  **DoB: 10 – April – 1983**  **Address: Barz Street, Duhok city, Duhok, Kurdistan Region, Iraq (postcode 42001)**  **Contact details:**  **Telephone (and WhatsApp): +964 750 482 1775**  **Email 1:** [**sheheen.abdulkareem@uod.ac**](mailto:sheheen.abdulkareem@uod.ac)  **Email 2: sheheen83@gmail.com** | | |
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|  | Specialty | |
| **Artificial Intelligence – Geoinformatics – Computer Science** | | |
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|  | Degrees Awarded | |
| * **PhD diploma**: July 2014 – April 2019 University of Twente, Department of Governance and Technology for Sustainability, Faculty of Behavioral, Management, and Social Sciences (BMS), University of Twente, **The Netherlands** and Department of Computer Science, College of Science, University of Duhok, Kurdistan Region, Iraq.   The research titled with: “Enhancing Agent-Based Models with Artificial Intelligence for Complex Decision Making” supervised by Prof. Dr Tatiana Filatova, Prof. Dr Yaseen M. Taha, and Dr. Ellen-Wien Augustijn.   * **MSc in Geo-Information Science and Earth Observation – Geoinformatics**: Sep 2008 – Mar 2010 Faculty of Geo Information Science and Earth Observation (ITC) – Twente University – **The** **Netherlands** MSc thesis title: “Simulating the Spread of Pertussis in Enschede Region Using Agent-Based Modelling” under the theme spatial database infrastructure technology; supervised by Dr Ellen-Wien Augustijn. * **B.Sc Honours in Computer Science**: Sep 2001 – Jun 2005, University of Dohuk, Kurdistan Region, **Iraq**. | | |
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|  | Published Researches | |
| 1. Augustijn EW, **Abdulkareem SA**, Sadiq MH, Albabawat AA. Machine Learning to Derive Complex Behaviour in Agent-Based Modelling. In2020 International Conference on Computer Science and Software Engineering (CSASE) 2020 Apr 16 (pp. 284-289). IEEE. 2. **Abdulkareem SA**, Augustijn EW, Filatova T, Musial K, Mustafa YT. Risk perception and behavioral change during epidemics: Comparing models of individual and collective learning. PloS one. 2020 Jan 6;15(1): e0226483. 3. **Abdulkareem SA**, Mustafa YT, Augustijn EW, Filatova T. Bayesian networks for spatial learning: a workflow on using limited survey data for intelligent learning in spatial agent-based models. Geoinformatica. 2019 Apr;23(2):243-68. 4. **Abdulkareem SA**. Enhancing Agent-Based Models with Artificial Intelligence for Complex Decision Making. 2019 Apr. 5. **Abdulkareem SA**, Augustijn EW, Musial K, Mustafa YT, Filatova T. The Impact of Social Versus Individual Learning for Agents' Risk Perception During Epidemics. In2018 IEEE 14th International Conference on e-Science (e-Science) 2018 Oct 1 (pp. 297-298). IEEE. 6. **Abdulkareem SA**, Augustijn EW, Mustafa YT, Filatova T. Intelligent judgements over health risks in a spatial agent-based model. International journal of health geographics. 2018 Dec;17(1):1-9. 7. **Abdulkareem SA**, Augustijn PW, Mustafa YT, Filatova T. Integrating Spatial Intelligence for risk perception in an Agent Based Disease Model. In 2017 International Conference on GeoComputation, Sep, 2017; Leeds, UK. 8. **Abdulkareem SA**, Augustijn EW, Mustafa YT, Filatova T. Artificial intelligence techniques to enhance actors' decision strategies in socio-ecological agent-based models. In 8th International Congress on Environmental Modelling and Software Jul 10, 2016. 9. **Abdulkareem SA**, Augustijn-Beckers P, Mustafa YT, Filatova T. Including risk perception in agents' cognitive decision-making processes: a case of cholera diffusion. In 11th Annual Social simulation Conference, 14-18 September 2015, Groningen, Netherlands. 10. **Abdulkareem SA**. Simulating the Spread of Pertussis in Enschede Region Using Agent-Based Modelling. University of Twente Faculty of Geo-Information and Earth Observation (ITC); 2010 Mar. 11. Augustijn-Beckers P, **Abdulkareem SA**, Huisman O, Flacke J. Simulating diffusion of pertussis in the Netherlands. In Workshop on agent-based simulation of diffusion processes, 8-9 April 2010, Vienna, Austria (pp. 31-33); Universitat Wien. | | |
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|  | Research Interests | |
| 1. Agent-Based Modelling and Simulation; 2. Artificial Intelligence; 3. Intelligent Agent; 4. Geoinformatics; 5. Simulating Human Behaviour; 6. Risk Perception; 7. Simulating Infectious Diseases. | | |
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|  | Teaching Experience | |
| * **Postgraduates**:   + First Semester of (2020 – 2021), teaching Computer Skills course for PG students (MSc) in College of Agricultural Engineering Sciences, University of Duhok.   + First Semester of (2020 – 2021), teaching Machine Learning course for PG students (PhD) in the department of Computer Science, University of Duhok.   + First Semester of (2020 – 2021), teaching Machine Learning course for PG students (MSc) in the department of Computer Science, University of Duhok.   + First Semester of (2019 – 2020), teaching Computer Skills course for PG students (MSc) in University of Duhok.   + Feb-Mar 2018 Programme GFM (MSc) of (2017 – 2018), Assistant Lecturer in the Module Spatio-Temporal Modelling and Analytics, Faculty of Geoinformation and Earth Observation Science (ITC), University of Twente, The Netherlands. * **Undergraduates**:   + Second semester of (2020 - 2021), teaching Machine Learning course for the fourth-year students in the department of Computer Science, University of Duhok.   + First semester of (2020 - 2021), teaching Postgraduates (Master students) Computer skills in University of Duhok.   + Second semester of (2019 - 2020), teaching Machine Learning course for the fourth-year students in the department of Computer Science, University of Duhok.   + First semester of (2019 - 2020), teaching Postgraduates (Master students) Computer skills in University of Duhok.   + First semester of (2019-2020), teaching Artificial Intelligence course for the fourth-year students in the department of Computer Science, University of Duhok.   + In the academic year (2016 – 2017), teaching Artificial Intelligence I & II courses for the fourth-year students in the department of Computer Science, University of Duhok.   + In the academic year (2015 – 2016), teaching Operating Systems II course for the third-year students in the department of Computer Science, University of Duhok.   + In the academic year (2013 – 2014), teaching Artificial Intelligence annual semester for the undergraduates in the department of Computer Science, University of Duhok.   + In the academic years (2012 – 2013), teaching the first-year students: Computer Organization and Architecture I - annual semester in the department of Computer Science, University of Duhok.   + In the academic years (2012 – 2013), teaching the undergraduate (forth year) students: Artificial Intelligence - annual semester in the department of Computer Science, University of Duhok.   + In the academic years (2011 – 2012), teaching the undergraduate (forth year) students: Artificial Intelligence - annual semester in the department of Computer Science, University of Duhok.   + In the academic years (2011 – 2012), teaching the first-year students: Computer Organization and Architecture I - annual semester in the department of Computer Science, University of Duhok.   + In the academic year (2010 – 2011), teaching Computer Microprocessors and Assembly language for the second-year students in the department of Computer Science, University of Duhok.   + In the academic year (2010 – 2011), teaching Computer Organization and Architecture I for the first year in the department of Computer Science, University of Duhok.   + Period (Sep 2005 – March 2008) University of Duhok Assistant Programmer Involving in teaching and monitoring first and second year computer department students during practical sessions in computer labs. The subjects were various, they included C++, OOP languages, Computer Applications, Data Structures and Microprocessors. In addition, it included preparing and marking student assignments, monitoring students during exams and attending staff meetings. | | |
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|  | Supervision | |
| **MSc and PG Students**:   * In the academic year (2021 – 2022), external supervisor of the MSc student Yuan Chen in Geographical Information Management and Applications (GIMA), Utrecht University, The Netherlands. | | |
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|  | Academic Activities | |
| **Grants and Projects**   1. **Project Name**: Institutionalize Gender Equality to flourish the talents of girls & women at Academic Institutions.   **Project Provider**: Orange Knowledge Programme – Nuffic, Tailor-Made Training (Gender Call)  **Country**: The Netherlands  **Project Budget**: € 74,620 Euros  **Training Provider**: Belink Academy  **Conferences**:   1. The 11th Annual Social Simulation Conference 2015, Groningen, **The Netherlands**. 2. The 8th International Congress on Environmental Modelling and Software 2016 - Toulouse, **France**. 3. The 14th International Conference on GeoComputation: Celebrating 21 Years of GeoComputation - Leeds, **United Kingdom**, Sep 2017. 4. The IEEE 14th International Conference on e-Science (e-Science), Amsterdam, **The Netherlands**; Nov, 2018. 5. The International Engineering Conference IEC June, 2019, Erbil, Kurdistan Region, **Iraq**. 6. The 1st International Conference on Computer Science and Software Engineering (2020 CSASE), 2020, Duhok, Kurdistan Region, **Iraq**. 7. The World Forum for Women in Science (WISWB) 8 – 10 March, 2021, Duhok, Kurdistan Region, **Iraq**. 8. The 2nd International Conference on Computer Science and Software Engineering (2022 CSASE), March 2022, Duhok, Kurdistan Region, **Iraq.**   **Academic Visiting**:   1. Fulbright Visiting Scholar Program of 2012, Kent State University, Ohio, United State of America (**USA**). 2. PhD student visitor to University of Technology Sydney (UTS), Sydney, **Australia**, in May – June 2018 3. Graduate Visitor at University of Twente, Enschede, **The Netherland**, July – August, 2019. 4. Scientist Visitor at University of Twente, Enschede, **The Netherlands**, August – November 2022 | | |