

Shimaa Ismail Mohamed

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PROFILE SUMMARY

Dedicated and accomplished academic researcher with a passion for advancing knowledge in the field of Information System. Proven track record of conducting rigorous research, publishing in reputable journals, and effectively collaborating with interdisciplinary teams. Committed to fostering innovation and critical thinking.

LANGUAGES

English: Intermediate

Arabic: Native

SKILLS

Data Analysis
Literature Review
Academic Writing
Curriculum Development
Conference Presentations

INTERESTS

Information Retrieval
Data Mining
Natural Language Processing
Information Systems

PROFESSIONAL EXPERIENCE

Senior Researcher Sep 2009 – Jul 2022
Faculty of Computers and Artificial Intelligence

- Led a research project investigating the natural language processing for data mining specifically in opinion mining. In addition, A research project for the semantic similarity for Arabic text.

Research Scientist Sep 2022 – Present
Faculty of Computers and Artificial Intelligence

- Led a multidisciplinary team in a study on "Information Retrieval" resulting peer review papers for publications
- Mentored and supervised six graduate students.

EDUCATION

PHD Sep 2016 – Jul 2022
Faculty of computers and artificial Intelligence,
Benha University

Master's Sep 2009 – Dec 2015
Faculty of Engineering (Shoubra),
Benha University

Bachelor's Sep 2003 – Jun 2008
Faculty of Engineering (Shoubra),
Benha University

Courses Taught

Post-Graduate Courses

- Research tools and methods (2024 - Present)
- postgraduate (IS master's degree)
- Selected Topics in Information Retrieval (2024 - Present)
- postgraduate (IS master's degree)
- Research topics in Information Retrieval (2025 - Present)
- postgraduate (IS PHD Degree)

Under-Graduate Courses

- Logic Design - Second Level (2012 to 2022)
- Assembly (2016 to 2022)
 - Third Level (Computer Science Department)
- Electronics – First Level (2022 - Present)
- Introduction to Information Systems – Second Level (2022 to 2025)
- Web Programming (2023)
 - Third Level (Information Security Department)
- Information Retrieval and Web Search (2023 – present)
 - Fourth Level (Artificial Intelligent Department)
- Signals and Systems (2025 - present)
 - Third Level (Networking and Mobile Technologies Department)
- Software Engineering (2025)
 - Third Level (Software Development Engineering @ Artificial Intelligent Department)
- Software Testing (2026)
 - Fourth Level (Software Development Engineering Department)
- Social Media Marketing (2026)
 - Third Level (Software Development Engineering Department)

Scientific Publications

Peer-reviewed Articles:

Shimaa Ismail, AbdelWahab Alsammak , and Tarek Elshishtawy , [A NEW ALIGNMENT WORD-SPACE APPROACH FOR MEASURING SEMANTIC SIMILARITY FOR ARABIC TEXT](#). INTERNATIONAL JOURNAL ON SEMANTIC WEB AND INFORMATION SYSTEMS (IJSWIS), 18(1), 1-18, 2022. [HTTP://DOI.ORG/10.4018/IJSWIS.297036](http://doi.org/10.4018/IJSWIS.297036).

Shimaa Ismail, AbdelWahab Alsammak, and Tarek Elshishtawy, [A LANGUAGE-MODEL FOR MEASURING SEMANTIC AND SYNTACTIC SIMILARITY FOR ARABIC TEXTS](#), SN COMPUTER SCIENCE, 5(4), 351, 2024. <https://doi.org/10.1007/s42979-024-02691-x> .

Shimaa Ismail, Mai K. Gallab, and Hamada Nayel. 2022. [BONC: BAG OF N-CHARACTERS MODEL FOR WORD LEVEL LANGUAGE IDENTIFICATION](#). In *Proceedings of the 19th International Conference on Natural Language Processing (ICON): Shared Task on Word Level Language Identification in Code-mixed Kannada-English Texts*, pages 34–37, IIIT Delhi, New Delhi, India. Association for Computational Linguistics.

Shimaa Ismail Mustafa, Lina Ayman Salem, Tarek Shishtawy, Noha El-Attar, [ENHANCING HEALTHCARE MANAGEMENT: A CASE STUDY OF A MEDICAL CHATBOT IN EGYPT](#). BENHA JOURNAL OF APPLIED SCIENCES, 9(5), 199-210, 2024. <https://doi.org/10.21608/bjas.2024.317337.1499> .

شيماء إسماعيل; shimaa Ismail; mohamed Abdelfattah; Tarek Shishtawy. "A HYBRID LEXICAL SIMILARITY SYSTEM FOR AUTOMATED GRADING OF ARABIC SHORT ANSWERS", *Benha Journal of Applied Sciences*, 10, 12, 2025, 45-59. doi: 10.21608/bjas.2026.416959.1757

Amany Said; Shimaa Ismail; Tarek Shishtawy. "EMPIRICAL EVALUATION OF FULL TEXT, KEY-PHRASE, AND SEMANTIC REPRESENTATIONS FOR SCIENTIFIC DOCUMENT RETRIEVAL", *International Journal of Applied Intelligent Computing and Informatics*, 2, 3, 2026, 45-52. doi: 10.21608/ijaici.2026.481128.1031

Conference Papers:

Shimaa Ismail, AbdelWahab Alsammak , and Tarek Elshishtawy , [A GENERIC APPROACH FOR EXTRACTING ASPECTS AND OPINIONS OF ARABIC REVIEWS](#), IN PROCEEDINGS OF THE 10TH INTERNATIONAL CONFERENCE ON INFORMATICS AND SYSTEMS (PP. 173-179), 2016.

Shimaa Ismail, AbdelWahab Alsammak , and Tarek Elshishtawy , [ARABIC SEMANTIC-BASED TEXTUAL SIMILARITY](#). 1ST ANNUAL CONFERENCE OF POST GRADUATE STUDIES FOR APPLIED SCIENCE - BENHA UNIVERSITY (PGASC), 2022. <https://doi.org/10.21608/BJAS.2022.254708>.

Thesis Supervision

Master’s Theses: Prof. Dr. Tarek El Shishtawy, Prof. Dr. Abd Elwahab Elsammak
PhD Dissertations: Prof. Dr. Tarek El Shishtawy, Prof. Dr. Abd Elwahab Elsammak

Academic and Professional Experience

- Position:** Chief of control of the fourth Division
Institution: Faculty of Computers and Artificial Intelligence, Benha University
Duration (From – To): 9-2024 to 9-2025
 - Position:** Department Quality Coordinator (Information Systems Department)
Institution: Faculty of Computers and Artificial Intelligence, Benha University
Duration (From – To): 9-2023 till now
 - Position:** Director of the Academic Guidance Unit
Institution: Faculty of Computers and Artificial Intelligence, Benha University
Duration (From – To): 8-2026 till now
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