



Name: Ebtahal Hamdan Omoush

Bio:

Ebtahal Hamdan Omoush is a Ph.D. candidate in the Computer Science Department at Princess Sumaya University for Technology (PSUT), Amman, Jordan. She started her Ph.D. study in 2022. She received her M.Sc. degree in Computer Science in 2012 from Al al-Bayt University and her B.Sc. degree in Computer Information Systems in 2009 from the same institution. She is currently working as the Head of the Electronic Services and Documentation Division at the Deanship of Scientific Research, Al al-Bayt University, Mafraq, Jordan.

Honors & Awards:

1. **Second Prize**, Fifth National Technological Festival – Information and Communication Technology Theme, Hashemite University, Jordan (2012), Awarded for her innovative project: "Arabic Keyword Extraction using Artificial Neural Networks – SOM".
2. **First Prize**, Scientific Research Competition – Middle East Studies Center, Jordan (2012), for her research on the role of Facebook in shaping cultural and social change among students at Al al-Bayt University
3. **First Prize**, Scientific Research Competition – Middle East Studies Center, Jordan (2011), for her study on the awareness level of Jordanian university students regarding the role of student councils.

Publications:

1. **E. H. Omoush** and R. Ghnemat, "Advancing Arabic Medical Question Answering Systems with RAG and LLMs Integration," 2025 International Conference on New Trends

in Computing Sciences (ICTCS), Amman, Jordan, 2025, pp. 511-516, doi: 10.1109/ICTCS65341.2025.10989446.

2. **E. H. Omoush**, A. Shdefat, N. Al-Madi and B. Hammo, "Arabic Paraphrasing Detection Using Multiple Extracted Features," 2023 14th International Conference on Information and Communication Systems (ICICS), Irbid, Jordan, 2023, pp. 01-06, doi: 10.1109/ICICS60529.2023.10330486.
3. **Ebtehal H.Omoush**, Venus W. Samawi (2016), Arabic Keyword Extraction using SOM Neural Network, International Journal of Advanced Studies in Computer Science & Engineering [IJASCSE], volume 5, issue 11. 2.

Submitted papers:

Paper Title	Authors	Venue
Parallel hybrid optoelectronic architecture based on OTIS and wheel interconnection networks	Abeer B. Shdefat; Ebtehal H. Omoush ; Basel Mahafzah; Ashraf M. A. Ahmad	Journal
Identifying Ambiguities in Arabic Software Requirements: A Comparative Study of Heuristic Rules and Machine Learning Models	Ebtehal H. Omoush , Abdallah Qusef , Ahmad Althunibat, Qasem Abu Al-Haija	Journal

Research Interests:

- Natural Language Processing
- Artificial Intelligence
- Optimization
- Cybersecurity

Research Groups:

- CyberHubJo (Initiated by PhD students in PSUT)

Important Links:

- **LinkedIn:** <https://www.linkedin.com/in/ebtehal-omoush-76659645/>
- **ResearchGate:** <https://www.researchgate.net/profile/Ebtehal-Omoush-2>
- **Google Scholar:** <https://scholar.google.com/citations?hl=en&user=WIVULEAAAAJ>
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