

Personal Information

Name	Rana Mohammad Yousef
Place and date of birth	Amman 19/1/1980
Faculty	King Abdullah II School for Information Technology
Department	Computer Information Systems

Qualifications

Qualification	Specialization	University of donor rank	Date
PhD	Software Engineering	University of the West of England, Bristol, UK	2010
M.Sc.	Computer Science	The University of Jordan, Jordan	2004
B.Sc.	Computer Science	The University of Jordan, Jordan	2002

Specialization and domain of interest

Specialization	Software Engineering
Domain of interest	Software Engineering, Knowledge Engineering, Generative AI applications, project management

Specialization and domain of interest

Title and abstract of the doctoral thesis (within 150 words)
BPAOntoSOA: A Semantically Enriched Framework for Deriving SOA Candidate Software Services from Riva-based Business Process Architecture
Service-Oriented Architecture (SOA) is becoming the mainstream for providing efficient and agile business solutions that can keep up with changes demanded by the business world. The task of identifying candidate services is one of the main activities in developing software service-oriented models. The current service identification approaches exhibit some limitations, where they are either too complex to be adopted, too simple to satisfy all SOA principles, or are theoretical approaches that are far from automation. On the other side, ontologies have been introduced in a number of phases in the SOA development lifecycle, mainly in the design and implementation phases. This research is concerned with

introducing an ontology-based framework to semantically generate services from business process architectures (BPA) and using a simple service identification approach that is based on the BPA for an organisation.

Career Experience

Job Title	Place of work	Date
Associate Professor	The University of Jordan	21st November 2015 – present
Assistant Professor	The University of Jordan	21st November 2010 – 2015
Teaching Assistant	The University of Jordan	16th February 2003 – 1st February 2007

Administrative works and committees

Administrative work and committee	Date
Head of computer information systems' department	29/9/2024 - now
Dean assistant for computer, development and quality affairs, The University of Jordan, Deanship of Academic Research	September 2014 – September 2015

Recent Publications within last five years

Name of researcher	Research title, Publisher, Date
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Rana Yousef	Utilizing ChatGPT to Create a Riva-based Business Process Architecture: The Online Teaching Case Study, International Journal of Information and Education Technology. To be published in 2024
Rana Yousef and Khalid Al Zubi	Providing Home Healthcare Services for Patients during Pandemics: Applicability in Developing Countries. Journal of Health Management. Vol. 25, No. 4, 2023.
Yousef, R. , Al-Anani, A., Al-Khalid, R., Al-Dallah, R., & Rajab, L.	A Semantic Representation of Online Teaching Business Process Architecture. International Journal of Emerging Technologies in Learning (IJET), 17(11), pp. 190–209. 2022
Odeh M, Kharbat FF, Yousef R , Odeh Y, Tbaishat D, Hakooz N, Dajani R and Mansour A	iOntoBioethics: A Framework for the Agile Development of Bioethics Ontologies in Pandemics, Applied to COVID-19. Frontiers in Medicine, 8, p.530. 2021.
Rana Yousef and Sarah Imterah	“Service Traceability in SOA-Based Software Systems: A Traceability Network add-in for BPAOntoSOA Framework”, International Journal of Metadata, Semantics and Ontologies, Vol.14 No.2, pp.169 – 183, July, 2020.
Sondus Almrayat, Rana Yousef and Ahmad Sharieh	“Evaluating the Impact of GUI Similarity between Android Applications to Measure their Functional Similarity”, International Journal of Computer Applications 178(21):31-38, June 2019
Rana Yousef	"Assessing the Quality of Candidate Software Services Generated Using Service Identification Approaches." International Journal of Computer Science Issues (IJCSI) 13.2 (2016): pp. 64

Sarah Khader and Rana Yousef	"Utilizing Business Process Models to Generate Software Test Cases." International Journal of Computer Science Issues (IJCSI) 13.2: pp.1.(2016)
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Scientific conferences and symposia

Conference Title	Place and date of conference	Type of participation
International Conference on Health Technology Assessment and Public Health - (ICHTAPH-24) conference.	2nd - 3rd April 2024 at Zarqa, Jordan	Author of paper "Optimizing Jordan's Healthcare System through Software Engineering: Integrating General Practitioners in Patient management"
1st International Conference on Cancer Care Informatics	Amman, Jordan, 2018	Reviewer and program chair
New Trends in Information Technology	Amman –Jordan, 2017	Author of paper: "Towards Improving Customer Behavior Prediction through Social Networks"
International Conference on Information and Communication Systems	Jordan, 2013	Author of paper "Using Affinity Analysis to Identify Services for SOA-Based Software Systems: A Case Study",

Training courses

Name of course	Date
Android App development	
Data Science	
Ontology	
SPSS	
Generative AI	2024

Teaching activities

Taught Courses	Bachelor	Graduate
Software Engineering	√	<input type="checkbox"/>
Information Systems Project Management	√	<input type="checkbox"/>
Certified software/Android app development	√	<input type="checkbox"/>
Visual programming	√	<input type="checkbox"/>
Object oriented programming	√	<input type="checkbox"/>
Documentation and Ethics	√	<input type="checkbox"/>
Computer skills for medical students	√	<input type="checkbox"/>

Membership in scientific and professional bodies and societies

Name and place of scientific body and society	Date
Member of Association of Jordanian Women Academics	
Jordan Computer Society	
Project management Institution-Jordan Chapter	

Awards

Name of Award	Donor and place of award	Date