

Sareh Sadeghianasl

Curriculum Vitae



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EDUCATION

- 2018 – 2022 **Doctor of Philosophy**
Information Systems
Queensland University of Technology, Australia
- 2017 – 2014 **Master of Science**
SECOND TOP STUDENT
Computer Software Engineering
Ferdowsi University of Mashhad, Iran
- 2010 – 2014 **Bachelor of Science**
SECOND TOP STUDENT
Computer Software Engineering
Ferdowsi University of Mashhad, Iran

RESEARCH EXPERIENCE

CURRENT, FROM NOV 2021 (FT)
Queensland University of Technology
Research Fellow in Process Science

In my role as a Research Fellow, I am working on various research projects, including data governance for an equipment supplier, and the quality assessment and root cause identification of data quality problems in electronic medical records of patients presenting at the Emergency Department of a Queensland hospital.

2018 – 2021 (FT)
Queensland University of Technology
Researcher

My PhD research focused on improving the quality of process data and mainly activity labels, which are the records of the tasks performed in an organization. More specifically, I looked at labels with the same meaning but different syntax. I developed computational as well as human-based approaches to improve the quality of activity labels. More significantly, I deployed Crowdsourcing and Gamification techniques for data cleaning.

2014 – 2017 (FT)
Ferdowsi University of Mashhad
Researcher

My research focused on semantic web and process-oriented data mining. More specifically, I was looking at semantic process similarity assessment using graph-based similarity measures, semantic process fragmentation, and developing ontologies from event log data. I implemented a tool for building an ontology from a log.

TEACHING EXPERIENCE

- *Queensland University of Technology, Brisbane, Australia*
 - IAB321: Business Process Technologies (2021 – tutor).

- IAB201: Modelling Techniques for Information Systems (2020/1 – tutor).
- IAB206: Modern Data Management (2019/21 – tutor)
- Jinling Institute of Technology, China
 - IAB206: Modern Data Management (2020/1 – tutor)
- Ferdowsi University of Mashhad, Iran
 - Database Management (2015 – tutor)

ACADEMIC SERVICE

- *Co-Chair* of Data Quality and Transformation in Process Mining Workshop in ICPM 2022.
- *Associate Editor* of for the BPM track at the 18th International Conference on Wirtschaftsinformatik (WI), 2023.
- *Reviewer* of the ICPM 2021 and ECIS 2022 conferences and the IEEE Access journal.

PUBLICATIONS

I have 23 citations in Google Scholar and a h-index of 2.

International Journal Publications

1. Sareh Sadeghianasl, Arthur H.M. ter Hofstede, Moe T. Wynn, Selen Turkay, and Trina Myers. *Process activity ontology learning from event logs through gamification*. IEEE Access, vol. 9, pp. 165865-165880, 2021. [SCImago Q1] <https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=9648191>

International Conference Papers

2. Sareh Sadeghianasl, Arthur H.M. ter Hofstede, Suriadi Suriadi, and Selen Turkay. *Collaborative and Interactive Detection and Repair of Activity Labels in Process Event Logs*. International Conference in Process Mining, IEEE, 2020. [ICPM; acceptance rate 32%] <https://ieeexplore.ieee.org/abstract/document/9230305/>
3. Sareh Sadeghianasl, Arthur H.M. ter Hofstede, Moe T. Wynn, and Suriadi Suriadi. *A Contextual Approach to Detecting Synonymous and Polluted Activity Labels in Process Event Logs*. International Conference on Cooperative Information Systems, LNCS, vol. 11877, pp. 76-94, Springer, 2019. [CoopIS; ranked as an A conference by CORE2020, acceptance rate 22% for full papers] https://link.springer.com/chapter/10.1007/978-3-030-33246-4_5

Papers in National or Regional Conferences

4. Sareh Sadeghianasl and Mohsen Kahani. *Process Similarity Assessment Using Ontology Mapping (in Persian)*. Computer Society of Iran Computer Conference (CSICC), Tehran, Iran, 2016. <https://csi.org.ir/en/paper/view/id/1932>

Theses

5. Sareh Sadeghianasl. *The Quality Guardian: Improving Activity Label Quality in Event Logs through Gamification*. PhD thesis, Queensland University of Technology, Brisbane, Australia, 2022.
6. Sareh Sadeghianasl. *Process Similarity Assessment Using Ontology Mapping (in Persian)*. Master's thesis, Ferdowsi University of Mashhad, Mashhad, Iran, 2017.

AWARDS & MEMBERSHIPS

- 2020 **Associate Fellow of Higher Education Academy**
Advanced HE, UK
- 2020 **Best Student Reviewer Award**
School of Information Systems, QUT
- 2020 **Medical Datathon Finalist**
Queensland AI Hub
- 2020 **Data for Discovery Theme**
QUT Centre for Data Science
- 2020 **Women in Technology**
- 2020 **Business Process Management Association**
- 2019 **IEEE Task Force in Process Mining**

TALKS

Data Science Workshop for Researchers & Industry

2020

I have been an Academic Speaker in this workshop, which was co-hosted by ACEMS, the Australian Data Science Network, the QUT Centre for Data Science and Integrity Systems Company (ISC). The goal of this workshop was to explore the latest

research in data quality, management, and integration, as well as challenges and opportunities in industry. My talk outlined my research on data quality improvement through gamification and crowdsourcing techniques, which received positive feedback from both industry and academic guests.

ICPM Online Conference – Research Track 3: Data Quality and Preparation

2020

I have presented our paper, “Collaborative and Interactive Detection and Repair of Activity Labels in Process Event Logs”, at the online ICPM conference event. My talk was well-received by more than 130 live attendees, followed by an insightful discussion involving leading and internationally recognised researchers in data and process mining afterwards. The recorded video of the session is available at: https://www.youtube.com/watch?v=_Q1exV-o53E

CoopIS Conference, Rhodes, Greece – Research Track: Machine Learning and Knowledge Discovery III

2019

I have presented our paper “A Contextual Approach to Detecting Synonymous and Polluted Activity Labels in Process Event Logs” in the CoopIS conference in Greece. This talk was well-appreciated followed by an insightful discussion involving internationally recognised researchers in data and process mining afterwards.

RESEARCH INTERESTS

- Process mining
- Data quality
- Gamification
- Visualisation
- User experience
- Data mining
- Data bases