

Majid Lotfian Delouee

Streaming Data Specialist

Doctoral Researcher



Profile

He received Master's and Bachelor's degrees in Software Engineering with majors in Networks and Information Systems, especially for IoT applications. Currently, he is researching on providing a trade-off between quality monitoring and privacy protection in event processing systems complemented by autonomous rule generation in IoT environments. In addition, he collaborates with the Parrot project, which is a joint research project involving the University of Oslo (Norway), the Technical University of Darmstadt (Germany), and the University of Groningen (The Netherlands).



Education

Present

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Jul, 2020

Ph.D. in Computer Science

University of Groningen

Focus: Establishing a trade-off between user quality and privacy requirements in complex event processing systems.

Thesis Title: Mission-critical Event-based Systems, Meeting User Requirements in the Internet of Things.

Sep, 2015

Sep, 2012

M.Sc. in Software Engineering

Azad University of Mashhad

Focus: Developing a new routing algorithm for implementing network coding on wireless mesh networks.

Thesis Title: An Optimized Network Coding Method for Wireless Networks.

Jul, 2011



B.Sc. in Software Engineering

Ferdowsi University of Mashhad

Focus: Network protocols, IoT environment and its applications, security and privacy aspects of IoT scenarios.

Thesis Title: Design and Implementing a SIP soft-phone.



Publications

2024

2023

Poster: Towards Federated LLM-Powered CEP Rule Generation and Refinement

M. Lotfian Delouee, DG. Pernes, V. Degeler, B. Koldehofe, DEBS'24, ACM.

2024

Driving Towards Efficiency: Adaptive Resource-aware Clustered Federated Learning in Vehicular Networks

A. Khalil*, M. Lotfian Delouee*, V. Degeler, T. Meuser, A. Fernandez Anta, B. Koldehofe, MedComNet'24, IEEE.

2024 APP-CEP: Adaptive Pattern-level Privacy Protection in Complex Event Processing Systems

Complex Event Processing Systems

M. Lotfian Delouee, V. Degeler, P. Amthor, B. Koldehofe,

ICISSP'24, SCITEPRESS.

AQuA-CEP: Adaptive Quality-Aware Complex Event Pro-

cessing in the Internet of ThingsM. Lotfian Delouee, B. Koldehofe, V. Degeler, DEBS'23,

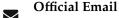
M. Lotfian Delouee, B. Koldehofe, V. Degeler, DEBS'23 ACM.



Contact

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LinkedIn

majid-lotfian-delouee

Github

majid-lotfian

Website

bit.ly/MajidLotfianDelouee



Programming

Java

Apache Flink

FlinkCEP

Python

Pandas, NumPy, etc

Apache Spark

Structured Streaming

Apache Kafka

Pub/Sub

SQL

ML

Tensorflow, Pytorch, Scikit-learn, etc



Soft Skills

- Time Management
- Teamwork
- Problem-solving
- Leadership

2023 Poster: Towards Pattern-Level Privacy Protection in Distributed Complex Event Processing

M. Lotfian Delouee, B. Koldehofe, V. Degeler, DEBS'23,

2022 Towards Adaptive Quality-aware Complex Event Processing in the Internet of Things

M. Lotfian Delouee, B. Koldehofe, V. Degeler, MSN'22,

Scheduling Data-driven Workflows in Multi-cloud Environment

N. Soveizi, S. Abrishami, M. Lotfian Delouee, CKE.

Scheduling Data-driven Workflows in Multi-cloud Envi-

N. Soveizi, S. Abrishami, M. Lotfian Delouee, CloudCom'15, IEEE.



Work experience

Guest Researcher Present University of Amsterdam

> Conducting research and collaborating with colleagues in the INtelligent Data Engineering Lab (INDElab) as well as the Complex Cyber Infrastructure (CCI) group in the Informatics Institute.

Educational Leadership

University of Groningen, Ilmenau University

Supervising students in Bachelor's projects and the Research Skill course, and master students in Student Colloquium event. Also, I supervised master's students in the Research Seminar course as an external cooperation with the Ilmenau University in Germany.

Teaching Assistant

University of Groningen

In a course that discusses the fundamentals of distributed systems.

Jul, 2020 Research Assistant

Ferdowsi University of Mashhad

Getting involved in multiple projects with M.Sc. students as project advisor concerning various topics such as Attributebased Encryption, real-time healthcare data management systems, permission systems, load balancing, fog scheduling algorithms, PSO-based sensor selection mechanisms, scheduling algorithms for smart agents in smart factories, distributed trust calculation algorithm, and joint cluster head selection and trust calculation algorithm, mostly in fogbased IoT applications.

Teacher and Lab Technician

Ministry of Education, Iran

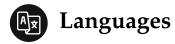
Teaching computer science to over 500 high school students for 6 years, working as a lab technician for two years, including networking tasks, and maintaining online and networked education and learning management systems.

University Projects

- Effective Communication
 - Flexibility
- Documentation
- Adaptability
- Engaging Presentation



Nomination for the best student paper award in the 10th International Conference on Information Systems Security and Privacy (ICISSP'24).



English

Dutch

Fluent

Intermediate

Persian Native

Miscellaneous

- Linux
- LATEX (Overleaf/R Markdown)
- Microsoft Office
- Git
- Databricks
- Shell (Bash/Zsh)
- Sports
- Cooking



Mar, 2024

2018

2015











Present

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Jul, 2020

Parrot

Oslo, Norway

Privacy Engineering for Real-Time Analytics in Human-Centered Internet of Things.

(C)

References

Prof. Dr. Boris Koldehofe

Ilmenau University

Dr. Victoria Degeler

University of Amsterdam