Farhoud Jafari Kaleibar

Post-Doc Fellow/Carleton University

Personal Information

- Date of Birth:
  - April 17, 1990
- Phone Number:
  - +1(343) 630-3366
- Language:
  - English/Fluent; Persian/Native; Turkish/ Fluent, Azerbaijani/Native, French: Beginner;
- Marital Status:
  - Happily Married
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Education

Ph.D.

- in Software engineering, Faculty of Computer Science and Engineering, Shahid Beheshti University, Tehran, Iran, June 2022.
- Ph.D. Thesis title: A novel approach for managing services in vehicular cloud networks
- Total Cumulative GPA: 18.06 / 20
- Research Advisor: Prof. Maghsoud Abbaspour

M. Sc.

- in Information Technology, Minor: Enterprise Architecture, Faculty of Computer Science and Engineering, Shahid Beheshti University, Tehran, Iran, October 2014.
- Master's Thesis Title: *A Hybrid Routing method for wireless sensor networks with mobile sinks*
- Total Cumulative GPA: 18.35 / 20
- Research Advisor: Prof. Maghsoud Abbaspour

B. Sc.

- in Information Technology, Faculty of Electrical & Computer Engineering, Tabriz University, Tabriz, Iran, July 2012,
- Total Cumulative GPA: 17.46 / 20
- Research Advisor: Prof. Mina Zolfi

Publications

- F. J. Kaleibar and M. St-Hilaire, “A Customized Genetic Algorithm for SLA-Aware Service Provisioning in Infrastructure-less Vehicular Cloud Networks”, Submitted to IEEE Transactions on Services Computing, Sept. 2024.
- F. J. Kaleibar and M. St-Hilaire, "SLA-Based Service Provisioning Optimization in Vehicular Cloud Networks Using Fuzzy Logic," in *IEEE Access*, vol. 12, pp. 101727-101744, 2024.
- F.J. Kaleibar, and St-Hilaire, M., “A Connectivity-aware Method for Infrastructure-less Vehicular Cloud Service Discovery”, in IEEE 10th World Forum on Internet of Things (WF-IoT), 1-6, 2024. (Accepted)
- F.J. Kaleibar, and St-Hilaire, M., “An Adaptive Clustering Approach for Dynamic Service Provisioning in Vehicular Cloud Networks”, in IEEE 10th World Forum on Internet of Things (WF-IoT), 1-6, 2024. (Accepted)
- F.J. Kaleibar, H.Kashfi, H. Kashfi, “A Comprehensive Approach to Integrate Generative AI in Vehicular Cloud Networks”. In IEEE 2024 8th Iranian Conference on Advances in Enterprise Architecture (ICAEA), 2024 (Accepted).
- A. Noormahmoodi, F. Rahimi, F.J. Kaleibar, “A Multi-Agent Retrieval-Augmented Generation Model with Specialized Domain Agents”. In IEEE 2024 8th Iranian Conference on Advances in Enterprise Architecture (ICAEA), 2024 (Accepted).
- F. Feizi, A. Hossein Nia, M.M. Hemmatyar, F. Rahimi, F.J. Kaleibar, “TELLM: Advancements in knowledge incorporation and Task-specific Enhancement of Large Language Models”, in IEEE 2024 32st International Conference on Electrical Engineering, 1-5, 2024.
- Feizi, F., Kaleibar, F. J., Rahimi, F., Kashfi, H., & Nia, A. H. “Digital Disruption in Telecommunication: Shifting from Telco to Tech Co”. In IEEE 2023 7th Iranian Conference on Advances in Enterprise Architecture (ICAEA) (pp. 59-64). 2023.
- Rahimi, F., Kaleibar, F. J., Feizi, F., Nia, A. H., & Kashfi, H. “Navigating Data Governance in the Telecom Industry”. In IEEE 2023 7th Iranian Conference on Advances in Enterprise Architecture (ICAEA) (pp. 65-71), 2023.
- Nia, A. H., Kaleibar, F. J., Feizi, F., Rahimi, F., & Kashfi, H. “Unlocking the Power of Data in Telecom: Building an Effective MLOps Infrastructure for Model Deployment”. In IEEE 2023 7th Iranian Conference on Advances in Enterprise Architecture (ICAEA) (pp. 78-84). 2023.
- Jafari Kaleibar, F. and Abbaspour, M., SLA-based Service Provisioning Approach in Vehicular Cloud Network ", Cluster Computing, 2021.
- Jafari Kaleibar, F. and Abbaspour, M., 2020. TOPVISOR: Two-level controller-based approach for service advertisement and discovery in vehicular cloud network. International Journal of Communication Systems, 33(3).
- Jafari Kaleibar, F. and Abbaspour, M., "An approach to model the optimal service provisioning in vehicular cloud networks", 11th Information and knowledge Technology Conference, IEEE, Tehran, Iran 2020.
- F. Jafari Kaleibar, M. Abbaspour "SLA-Based Service Provisioning in Vehicular Cloud Network", The 5th International Conference on Web Research, Tehran, Iran 2019.
- H Haghighi, M Mobasheri, FJ Kaleibar, F Hoseini, ", Use Cases of the Application Reference Model in IRAN", 21st International Conference on Enterprise Information Systems, Heraklion, Crete, Greece, vol. 2, 2019.
- F. Jafari Kaleibar, M. Abbaspour and H. Aghdasi, "An Energy-Efficient Hybrid Routing Method for Wireless Sensor Networks with Mobile Sink", Wireless Personal Communications, Springer, vol. 90, no. 4, pp. 2001-2015, 2016.

Work and Teaching Experience

- Post-Doc Fellow, Carleton University, Jan 2024 to Jan 2025.
- Manager of Artificial Intelligent Lab (AI Lab), MTN-Irancell (R&D Lab), March 2023 to Jan 2024.
- Senior Enterprise Architect, MTN-Irancell (R&D Lab), June 2021 to March 2023.
- Senior Software Analyst, Tarsim Dadeh Afzar, Dec 2020 to June 2021.
- Technical Manager of Enterprise Architecture Projects for Different Industries, Shahid Beheshti University, from 2016 till 2021.
- IT Counselor of University Online Data Analysis System, Shahid Beheshti University, Tehran, Iran, April 2015 to April 2016.
  - Website optimization
  - Online Analytical Processing (OLAP)
- Instructor, 'Computer Network Lab', Engineering and Computer Science Department, Shahid Beheshti University, Tehran, Iran, Spring 2016.
- Instructor, 'Software Engineering Lab', Engineering and Computer Science Department, Shahid Beheshti University, Tehran, Iran, Fall 2016.
- Instructor, 'Computer Basics and its application', Economics and Political Science Department, Shahid Beheshti University, Tehran, Iran, Spring 2015.
- Instructor, 'Introduction to Programming and Computer', Economics and Political Science, Shahid Beheshti University, Tehran, Iran, Spring 2014 and Fall 2015.
- Teaching Assistant, 'Advanced Computer Networks', Engineering and Computer Science Department, Shahid Beheshti University, Tehran, Iran, Fall 2013, 2014, 2015.
- Teaching Assistant, 'Network Security', E-Learning Department, Shahid Beheshti University, Tehran, Iran, Spring 2016.

Computer Skills

- Simulators
  - NS-2, NS-3, SUMO, JOSM
- Prog. Languages
  - C, C++, Java, Python, Matlab, HTML/CSS, TCL, SQL,
- Software
  - EA Sparx, ABACUS Studio, VMWare, Visual Studio, IBM Rational Rose, Mule Studio, Visual Paradigm, JBPM, Microsoft office, Photoshop, Visio, Docker.

Awards and Honors

- Awarded for "Shahryari" Scholarship, Shahid Beheshti University, Tehran, Iran, 2017.
- Accepted for PhD as a Talented Student without entrance exam (2014).
- Ranked 1th among Graduate Students (M.Sc.) in Information Technology major in Engineering and Computer Science Department, Shahid Beheshti University, Tehran, Iran (Sep. 2012 – Oct. 2014).

- Ranked 5th among more than 40 Undergraduate Students (B.Sc.) in Information Technology major in Electrical and Computer Engineering Department, University of Tabriz, Tabriz (2011-2012).
- Ranked 60th among more than 100,000 participants in Shahid Beheshti University Entrance Exam (2012).
- Ranked 1th in High School Graduation Year (2008).

Research Interests

- Vehicular Networks
  - Vehicular Cloud Computing
  - Routing Protocols
  - Resource Management
- Space-Air-Ground Integrated Networks
- Edge Cloud Applications
- Wireless Sensor networks
- Software Defined Networking
- Internet of Things
- Decision Science/Learning Techniques
- Generative AI

References

- Prof. Marc St-Hilaire E-Mail: marcsthilaire@cunet.carleton.ca
  - Full Professor at School of Information Technology, Carleton University, Ottawa, Canada.

- Dr. Maghsoud Abbaspour E-Mail: maghsoud@sbu.ac.ir
  - Associate professor of computer science and engineering department, Shahid Beheshti University, Tehran, Iran.

- Dr. Hadi Tabatabaee Malazi E-Mail: hadi.tabatabaeemalazi@ucd.ie
  - Assistant professor of computer science department, University College Dublin, Ireland.