

Alireza Movahedian

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Academic Qualifications

Ph.D. in Computer Engineering, University of Victoria, Victoria, Canada.

M.Sc. in Electrical Engineering, University of Tehran, Tehran, Iran.

B.Sc. in Electronics Engineering, Ferdowsi University of Mashhad, Iran.

Work experience

- Assistant Professor at the Department of Electrical and Computer Engineering, Imam Reza International University (2014-present).
- CEO and member of the board at “Razavi Information and Communications Technology” company (2020)
- Assistant in Advanced Technologies to the CEO of “Razavi Economic Organization” (2018-2020)
- Chairman of the board at “Razavi Advanced Industries” company (2020)
- Chairman of the board at “Razavi Market Network” company (2020)
- Senior Consultant in Information Security to the CEO of the “Central Securities Depository of Iran¹” (2016-2018).
- Head of the “Secure Systems and Blockchain Lab”, Imam Reza International University (2023-present).
- Team member in the Wireless Device Test project with the **PMC-Sierra**² (Vancouver, Canada, 2014).
- Researcher at the **Telecommunication company** of Iran (**TCI**)
 - Researching on computer networks and communication protocols
 - Head of “Network Security Workgroup” of the TCI
 - Member of International Telecommunication Union (ITU)'s workgroup SG13 at Telecommunication Company of Iran (on mobile and next-generation networks)

Publications

1. Movahedian, A.; McGuire, M.; , “An Iterative Receiver for Fast Fading Channels Using Two Kalman Filters” *Broadband and Wireless Computing, Communication and Applications (BWCCA), 2011 International Conference on* , vol., no., pp.122-127, 26-28 Oct. 2011.

¹ Founded in 2005 as a public joint stock company, Central Securities Depository of Iran (<http://csdiran.com>) is the sole registry entity and custodian in the Iranian capital market.

² PMC-Sierra is a semiconductor company with offices worldwide that develops and sells semiconductor devices into the storage, communications, optical networking, and embedded computing marketplaces.

2. M. McGuire, A. Movahedian, and M. Sima, "Zero phase smoothing of radio channel estimates," in Signal Processing Conference (EUSIPCO), *2012 Proceedings of the 20th European*, Aug. 2012, pp. 1608 –1612.
3. Movahedian, A.; McGuire, M.; "Low Complexity Estimation of Fast Fading Radio Channels for Higher Order Modulation," *IEEE International Conference on Communications (ICC) 2013*.
4. Movahedian, A.; McGuire, M.; "Capacity of Iteratively Estimated Channels Using LMMSE Estimators", *Pacific Rim Conference on Communications, Computers and Signal Processing, 2013*.
5. M. McGuire, A. Movahedian, "Bounds on Secret Key Rates in Fading Channels with Practical Channel Estimation Schemes", *IEEE International Conference on Communications (ICC) 2014*.
6. Movahedian, A.; McGuire, M.; "Efficient and Accurate Semiblind Estimation of MIMO-OFDM Doubly-Selective Channels", *IEEE Conference on Vehicular Tech., 2014*.
7. A. Movahedian and M. McGuire, "Estimation of fast fading channels for turbo receivers with high order modulation," *Vehicular Technology, IEEE Transactions on*, vol. 62, no. 2, 2013.
8. A. Movahedian and M. McGuire, "On the Capacity of Iteratively Estimated Channels", Accepted paper in *IEEE Transactions Vehicular Technology*.
9. Ebrahimzadeh, A.; Ardebilipour, M.; Movahedian, A.; , "Automatic Digital Signal Types Recognition Using SI-NN and HOS," *Communications, 2007. ICC '07. IEEE International Conference on* , vol., no., pp.2745-2748, 24-28 June 2007.
10. Moradi Andarzai, T; Movahedian, A; "Investigating Value Engineering in Enhancing the Performance of Information Technology", *Sixth International Conference on Information Technology Computer and Telecommunication Engineering Iran*, 20 December 2023, Tehran Iran.
11. Moradi Andarzai, T; Movahedian, A; "Enhancing the Performance of Information Technology Using Value Engineering: The Case Study of Iran Veterinary Organization, Khorasan Razavi", *Sixth International Conference on Information Technology Computer and Telecommunication Engineering Iran*, 20 December 2023, Tehran Iran.
12. M. Bahrami, A. Movahedian and A. Deldari, "A Comprehensive Blockchain-based solution For Academic Certificates Management Using Smart Contracts," *2020 10th International Conference on Computer and Knowledge Engineering (ICCKE)*, 2020, pp. 573-578.

Technical Skills

- Blockchain technology
- Cryptography
- Cryptocurrency
- Information Security
- Wireless Security

Software skills

- C++, Python, SQLite, MATLAB, LATEX, Linux