

Mohammad Hosseini

Assistant Professor

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Education

- **Ph.D. in Computer Engineering** (2014-2019) (GPA: 18.0/20)
Sharif University of Technology
Thesis: "Improving Payload Attribution Systems for Network Forensics Applications"
Advisor: Prof. Amir Hossein Jahangir
- **M.Sc. in Computer Engineering** (2012-2014) (GPA: 18.4/20)
Sharif University of Technology
Thesis: "Design and Implementation of a High-speed Network Equipment Tester"
Advisor: Prof. Amir Hossein Jahangir
- **B.Sc. in Computer Engineering** (2008-2012) (GPA: 17.32/20) (Top-ranked student)
University of Isfahan
Final project: "Design and Implementation of an FPGA-based Image Processing System"
Advisor: Prof. Kamal Jamshidi

Research Interests

- Computer networks
- Modern networking, SDN and NFV

Papers

- **M. Hosseini**, S. Darabi, A. Jahangir, A. Movaghar "Yuz: Improving Performance of Cluster-Based Services by Near-L4 Session-Persistent Load Balancing", *IEEE Transactions on Network and Service Management*, 2023 (Early access).
- S. Darabi, M. Sadrosadati, N. Akbarzadeh, J. Lindegger, **S.M. Hosseini**, J. Park, J. G. Luna, O. Mutlu, H. Sarbazi-azad, "Morpheus: Extending the Last Level Cache in GPU Systems with

Idle GPU Cores' Resources", *55th IEEE/ACM International Symposium on Microarchitecture (MICRO)*, pp. 228-244, 2022.

- **M. Hosseini**, A.H. Jahangir, S. Daraby, "Session-persistent Load Balancing for Clustered Web Servers without Acting as a Reverse-proxy", *17th International Conference on Network and Service Management (CNSM 2021)*, pp. 360-364, 2021.
- A. Hesam Mohseni, A. H. Jahangir, **M. Hosseini**, "Toward a comprehensive subjective evaluation of VoIP users' quality of experience (QoE): a case study on Persian language", *Multimedia Tools and Applications*, 80.21, pp. 31783-31802, 2021.
- **M. Hosseini**, A.H. Jahangir, M. Kazemi, "Digesting Network Traffic for Forensic Investigation Using Digital Signal Processing Techniques", *IEEE Transactions on Information Forensics and Security*, 14.12, pp. 3312-3321, 2019.
- **M. Hosseini**, A.H. Jahangir, "An Effective Payload Attribution Scheme for Cybercriminal Detection Using Compressed Bitmap Index Tables and Traffic Downsampling", *IEEE Transactions on Information Forensics and Security*, 13.4, pp. 850-860, 2018.

Teaching Experience

- Computer networking, Microprocessors, Faculty of Computer Science and Engineering, Shahid Beheshti University. (Since Spring 2023)
- Teaching the graduate course *Advanced Topics on Information Technology: Software-Defined Networking*, Computer Engineering Department, Sharif University of Technology. (Spring 2021-2022).
- Teaching the undergraduate course *Digital Systems Design*, Computer Engineering Department, Sharif University of Technology. (Spring 2012-2013), (Fall 2014-2015), (Spring 2015-2016).

Professional Experience

- Senior embedded developer, Samim Rayaneh Co. Tehran, Iran. (2013-2022)
- Technical head of some industrial projects at Sharif University of Technology (2014-2019)

Honors

- Funded by Iran's National Elites Foundation (2016 scholarship)
- Funded by Iran's National Elites Foundation (2015 scholarship)
- Distinguished satire award in Talkhand nationwide student festival on satire (2015)
- Ranked 2nd in the 1st nationwide CANSAT contest (2012)
- Ranked 1st among undergraduate students (2012)
- 10th Khwarizmi distinguished award (2008)

Languages

- Persian
- English

References

- **Amir Hossein Jahangir** ([Homepage](#)) (My M.Sc. and Ph.D. advisor)
Associate Professor
Computer Engineering Department
Sharif University of Technology
jahangir@sharif.edu
- **Hamid Sarbazi-Azad** ([Homepage](#)) (My M.Sc. and Ph.D. examiner)
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- **Ali Movaghar** ([Homepage](#))
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