

Curriculum Vitae



Name & Surname: Mehdi Naderisoorki

Date of Birth: December 05, 1984

 **Address, Suburb, State, Postcode:** Second floor, electrical engineering group, faculty of engineering, Shahid Chamran University of Ahvaz, Ahvaz, Khuzestan, Iran. 6135783151

 **Phone/Mobile Number:** Not available

 **E-mail address:** m.naderisoorki@scu.ac.ir

PROFESSIONAL PROFILE:

Assistant professor of electrical engineering in Shahid Chamran university (SCU) of Ahvaz

EDUCATION BACKGROUND:

Ph.D.: Telecommunication Engineering, Isfahan university of technology, Isfahan, Iran

Thesis title:

“Design of novel cooperative applications in device-to-device communication based on game theory”

M.Sc.: Telecommunication Networks Isfahan University of Technology, Isfahan, Iran

Dissertation title:

“A new LSP routing algorithm in MPLS networks”

B.S.: in Electrical Engineering Iran University of Science and Technology, Tehran, Iran.

TEACHING AND TRAINING EXPERINCE:

Cellular Networks

Graduate Level

Curriculum Vitae



Convex Optimization	Graduate Level
Game Theory	Graduate Level
Network Performance Analysis	Graduate Level
Data Communication	Undergraduate Level
Communication Networks	Undergraduate Level
Wireless Networks	Undergraduate Level
Probability and Statistics	Undergraduate Level
Communication Systems	Undergraduate Level

HONOURS AND AWARDS:

- Graduated with rank 1 among Ph.D. Students in Telecommunication engineering, Isfahan University of Technology, Isfahan, Iran. 2018.
- Research scholar in Telecommunication Engineering, Virginia Polytechnic Institute and State University, Blacksburg, USA, from 2014 to 2017.

INTERESTS AND RESEARCH FIELDS:

- Technologies and architectures for future wireless telecommunication networks
- Design of Telecommunication network based on advance mathematical tools such as: game, graph, and queuing theories, optimization techniques, and machine learning.

RESEARCH ACTIVITIES:

<https://scholar.google.com/citations?user=bV1uBAgAAAAJ&hl=en>

PUBLICATIONS:

- F. Barghikar, F. S. Tabataba and **M. N. Soorki**, "Resource Allocation for mmWave-NOMA Communication Through Multiple Access Points Considering Human Blockages," in *IEEE Transactions on Communications*, vol. 69, no. 3, pp. 1679-1692, March 2021, doi: 10.1109/TCOMM.2020.3045788.
- M. M. Moghaddam, M. H. Manshaei, **M. N. Soorki**, W. Saad, M. Goudarzi and D. Niyato, "On Coordination of Smart Grid and Cooperative Cloud Providers," in *IEEE Systems Journal*, vol. 15, no. 1, pp. 672-683, March 2021, doi: 10.1109/JSYST.2020.2987017.
- **M. Naderi Soorki**, W. Saad and M. Bennis, "Optimized Deployment of Millimeter Wave Networks for In-Venue Regions With Stochastic Users' Orientation," in *IEEE Transactions on Wireless Communications*, vol. 18, no. 11, pp. 5037-5049, Nov. 2019, doi: 10.1109/TWC.2019.2931535.

- N. Sawyer, **M. Naderi Soorki**, W. Saad, D. B. Smith and N. Ding, "Evolutionary Games for Correlation-Aware Clustering in Massive Machine-to-Machine Networks," in *IEEE Transactions on Communications*, vol. 67, no. 9, pp. 6527-6543, Sept. 2019, doi: 10.1109/TCOMM.2019.2917437.
- **M. N. Soorki**, W. Saad, M. H. Manshaei and H. Saidi, "Social Community-Aware Content Placement in Wireless Device-to-Device Communication Networks," in *IEEE Transactions on Mobile Computing*, vol. 18, no. 8, pp. 1938-1950, 1 Aug. 2019, doi: 10.1109/TMC.2018.2866100.
- **M. N. Soorki**, W. Saad, M. H. Manshaei and H. Saidi, "Stochastic Coalitional Games for Cooperative Random Access in M2M Communications," in *IEEE Transactions on Wireless Communications*, vol. 16, no. 9, pp. 6179-6192, Sept. 2017, doi: 10.1109/TWC.2017.2720658.
- **M. N. Soorki**, M. H. Manshaei, B. Maham and H. Saidi, "On Uplink Virtual MIMO with Device Relaying Cooperation Enforcement in 5G Networks," in *IEEE Transactions on Mobile Computing*, vol. 17, no. 1, pp. 155-168, 1 Jan. 2018, doi: 10.1109/TMC.2017.2707540.

CONFERENCE PRESENTATIONS:

- C. Chaccour, **M. N. Soorki**, W. Saad, M. Bennis and P. Popovski, "Risk-Based Optimization of Virtual Reality over Terahertz Reconfigurable Intelligent Surfaces," *ICC 2020 - 2020 IEEE International Conference on Communications (ICC)*, 2020, pp. 1-6, doi: 10.1109/ICC40277.2020.9149411.
- **M. N. Soorki**, W. Saad and M. Bennis, "Ultra-Reliable Millimeter-Wave Communications Using an Artificial Intelligence-Powered Reflector," *2019 IEEE Global Communications Conference (GLOBECOM)*, 2019, pp. 1-6, doi: 10.1109/GLOBECOM38437.2019.9013431.
- N. Sawyer, **M. N. Soorki**, W. Saad and D. B. Smith, "Evolutionary Coalitional Game for Correlation-Aware Clustering in Machine-to-Machine Communications," *GLOBECOM 2017 - 2017 IEEE Global Communications Conference*, 2017, pp. 1-6, doi: 10.1109/GLOCOM.2017.8254617.
- **M. N. Soorki et al.**, "Collaborative Real-Time Content Download Application for Wireless Device-to-Device Communications," *GLOBECOM 2017 - 2017 IEEE Global Communications Conference*, 2017, pp. 1-6, doi: 10.1109/GLOCOM.2017.8254122.
- **M. N. Soorki**, A. B. MacKenzie and W. Saad, "Millimeter wave network coverage with stochastic user orientation," *2017 IEEE 28th Annual International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC)*, 2017, pp. 1-6, doi: 10.1109/PIMRC.2017.8292239.
- **M. N. Soorki**, M. Mozaffari, W. Saad, M. H. Manshaei and H. Saidi, "Resource Allocation for Machine-to-Machine Communications with Unmanned Aerial Vehicles," *2016 IEEE Globecom Workshops (GC Wkshps)*, 2016, pp. 1-6, doi: 10.1109/GLOCOMW.2016.7849026.
- **M. N. Soorki**, M. J. Abdel-Rahman, A. MacKenzie and W. Saad, "Joint access point deployment and assignment in mmWave networks with stochastic user orientation," *2017 15th International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks (WiOpt)*, 2017, pp. 1-6, doi: 10.23919/WIOPT.2017.7959867.

RESEARCH PROJECTS:

- 1- Modeling and Designing an MPLS-over-OTN-over-WDM optical network for the Metro subway of Isfahan city"
Employer: Prof. Foroogh Sadat Tabataba, Communication Engineering Group,
Department of electrical and computer engineering, Isfahan university of technology.

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| 2- Researcher on "Design of millimeter-wave 5G networks for in-venue scenarios "
Employer: Prof. Allen B. MacKenzie, wireless@VT group, Virginia Polytechnic Institute and State University, USA. |
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LANGUAGES:

PERSIAN: Native
ENGLISH: Excellent