

CONTACT INFORMATION

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Pages:

scholar.google.com/citations?user=phoSesKAAAAJ&hl=en
www.scopus.com/authid/detail.uri?authorId=37081462700
www.webofscience.com/wos/author/rid/B-3605-2017
www.researchgate.net/profile/Peyman_Neamatollahi
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EDUCATION

PhD in Computer Engineering (Nov 2012 –Sep 2017)

Computer Engineering Department, Faculty of Engineering, Ferdowsi University of Mashhad, Mashhad, Iran.

Thesis Title: *“Distributed Scheduling of Reconfiguration Task in Hierarchical Wireless Sensor Networks”* (Grade: 19.75/20)

GPA: 19.59/20

RESEARCH INTERESTS

- Wireless Sensor Networks
 - Internet of Things
 - Distributed Algorithms
 - Green Communications
 - Job Scheduling Algorithms (Real-time, Workflow, ...)
 - Bioinformatics
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HONORS AND AWARDS

- Top selective researcher in Computer Engineering Department of Ferdowsi University of Mashhad at 2013, 2014, 2015, and 2017.
 - Ranked 1st among PhD students in Computer Engineering Department, Ferdowsi University of Mashhad at 2017.
 - Ranked 74st in *“National Entrance Exam for Ph.D. Studies”* Software Engineering major, among more than 1500 MSc students at 2012.
 - Ranked 1st research student among *“MS students in Khorasan Razavi State”* at 2011.
 - Ranked 3st among *“Young Researchers and Elite Club members in Mashhad Branch”*, at 2011.
 - Ranked 1st in *“National Islamic Azad University of Mashhad Entrance Exam for M.Sc. Studies”* Software Engineering major, among more than 500 B.Sc. students at 2007.
 - Ranked 8st in *“National Islamic Azad University Entrance Exam for M.Sc. Studies”* in Software Engineering major, among more than 8’000 B.Sc. students at 2007.
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US PATENTS

- 1) **P. Neamatollahi**, M. Naghibzadeh, and S. Abrishami. "Method for dynamically scheduling clustering operation." **U.S. Patent No. 10,660,035**, 19 May 2020.
 - 2) **P. Neamatollahi**, M. Naghibzadeh, and S. Abrishami. "Method for decentralized clustering in wireless sensor networks." **U.S. Patent No. 10,524,308**, 31 Dec. 2019.
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PUBLICATIONS**JCR=Q1:**

- 1) **P. Neamatollahi**, S. Abrishami, M. Naghibzadeh, M. H. Yaghmaee, O. Younis, "Hierarchical Clustering-task Scheduling Policy in Cluster-based Wireless Sensor Networks," **IEEE Transactions on Industrial Informatics (Impact Factor = 11.648)**, vol. 14, no. 5, 1876-1886, 2018, DOI: <https://doi.org/10.1109/TII.2017.2757606>.
- 2) **P. Neamatollahi**, M. Naghibzadeh, S. Abrishami, M. H. Yaghmaee, "Distributed Clustering-Task Scheduling for Wireless Sensor Networks Using Dynamic Hyper Round Policy," **IEEE Transactions on Mobile Computing (Impact Factor = 6.075)**, vol. 17, no. 2, 334-347, 2018, DOI: <https://doi.org/10.1109/TMC.2017.2710050>.
- 3) **P. Neamatollahi**, M. Naghibzadeh, S. Abrishami, "Fuzzy-based Clustering-task Scheduling for Lifetime Enhancement in Wireless Sensor Networks," **IEEE Sensors Journal (Impact Factor = 4.325)**, vol. 17, no. 20, 6837 - 6844, 2017, DOI: <https://doi.org/10.1109/JSEN.2017.2749250>.
- 4) **P. Neamatollahi**, H. Taheri, M. Naghibzadeh, "Info-based Approach in Distributed Mutual Exclusion Algorithms," **Elsevier Journal of Parallel and Distributed Computing (Impact Factor = 4.542)**, vol. 72, no. 5, 650-665, 2012, DOI: <https://doi.org/10.1016/j.jpdc.2012.01.005>.
- 5) M. Akbari, E. Neamatollahi, **P. Neamatollahi**, "Evaluating Land Suitability for Spatial Planning in Arid Regions of Eastern Iran Using Fuzzy Logic and Multi-Criteria Analysis," **Elsevier Ecological Indicators (Impact Factor = 6.263)**, vol. 98, 587-598, 2019, DOI: <https://doi.org/10.1016/j.ecolind.2018.11.035>.

JCR=Q2:

- 1) **P. Neamatollahi**, "Multi-Criterion Partial Clustering Algorithm for Wireless Sensor Networks", **IEEE Access (Impact Factor = 3.476)**, vol. 10, 108366-108373, 2022, DOI: <https://doi.org/10.1109/ACCESS.2022.3213037>.
 - 2) **P. Neamatollahi**, M. Hadi, M. Naghibzadeh, "Simple and Efficient Pattern Matching Algorithms for Biological Sequences", **IEEE Access (Impact Factor = 3.476)**, vol. 8, no. 1, 23838 - 23846, 2020, DOI: <https://doi.org/10.1109/ACCESS.2020.2969038>.
 - 3) H. Taheri, **P. Neamatollahi**, O. Younis, S. Naghibzadeh, M. H. Yaghmaee, "An Energy-aware Distributed Clustering Protocol in Wireless Sensor Networks using Fuzzy Logic," **Elsevier Ad Hoc Networks (Impact Factor = 4.816)**, vol. 10, no. 7, 1469-1481, 2012, DOI: <https://doi.org/10.1016/j.adhoc.2012.04.004>.
 - 4) **P. Neamatollahi**, M. Naghibzadeh, "Distributed Unequal Clustering Algorithm in Large-Scale Wireless Sensor Networks Using Fuzzy Logic," **Springer Journal of**
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Supercomputing (Impact Factor = 2.557), vol. 74, no. 6, 2329-2352, 2018, DOI: <https://doi.org/10.1007/s11227-018-2261-5>.

- 5) **P. Neamatollahi**, Y. Sedaghat, M. Naghibzadeh, "A Simple Token-based Algorithm for the Mutual Exclusion Problem in Distributed Systems", **Springer Journal of Supercomputing (Impact Factor = 2.557)**, 1-18, vol. 73, no. 9, 3861-3878, 2017, DOI: <https://doi.org/10.1007/s11227-017-1985-y>.

JCR=Q4:

- 6) H. Taheri, **P. Neamatollahi**, M. Naghibzadeh, "A Hybrid Token-based Distributed Mutual Exclusion Algorithm Using Wraparound Two-Dimensional Array Logical Topology," **Elsevier Information Processing Letters (Impact Factor = 0.851)**, vol. 111, no. 17, 841-847, 2011, DOI: <https://doi.org/10.1016/j.ipl.2011.05.021>.

Under Review:

- 7) R. Mohammadi, **P. Neamatollahi**, M. Moradi, M. Naghibzadeh, A. Savadi, "Tree-based Motif Discovery Algorithm for Bioinformatics Applications Using the Branch and Bound Approach," **Nature Scientific Reports (Impact Factor = 4.996)**, Under Review.

IEEE Conferences;

- 1) **P. Neamatollahi**, M. Hadi, M. Naghibzadeh, "Efficient Pattern Matching Algorithms for DNA Sequences", *25th IEEE International Computer Conference (CSICC 2020)*, Jan 1-2, 2020, 1-6, DOI: <https://doi.org/10.1109/CSICC49403.2020.9050070>.
 - 2) M. Naghibzadeh, H. Taheri, **P. Neamatollahi**, "Fuzzy-Based Clustering Solution for Hot Spot Problem in Wireless Sensor Networks," *IEEE International Symposium on Telecommunications (IST'14, indexed by Scopus & IEEE)*, Sep 9-11, 2014, 729-734, DOI: <https://doi.org/10.1109/ISTEL.2014.7000798>.
 - 3) **P. Neamatollahi**, H. Taheri, M. Naghibzadeh, Saeid Abrishami, "A Distributed Clustering Scheme for Wireless Sensor Networks," *IEEE International Symposium on Information & Knowledge Technology (IKT'14, indexed by Scopus & IEEE)*, May 27-29, 2014, 20-24, DOI: <https://doi.org/10.1109/IKT.2014.7030326>.
 - 4) A. Rezaeian, M. Naghibzadeh, **P. Neamatollahi**, "Scheduling Hard Real-time Tasks on Multi-core using Intelligent Rate-monotonic," *International Conference on Computer and Knowledge Engineering (ICCKE'13, indexed by Scopus & IEEE)*, Oct 31-Nov 1, 2013, 460-464, DOI: <https://doi.org/10.1109/ICCKE.2013.6682836>.
 - 5) M. Naghibzadeh, **P. Neamatollahi**, R. Ramezani, A. Rezaeian, T. Dehghani, "Efficient Semi-Partitioning and Rate-Monotonic Scheduling Hard Real-Time Tasks on Multi-Core Systems," *8th IEEE International Symposium on Industrial Embedded Systems (SIES'13, indexed by Scopus & IEEE)*, Porto, Portugal, June 19-21, 2013, 85-88, DOI: <https://doi.org/10.1109/SIES.2013.6601476>.
 - 6) **P. Neamatollahi**, H. Taheri, E. Toreini, M. Naghibzadeh, M. H. Yaghmaee, "A Novel Fuzzy Metric to Evaluate Clusters for Prolonging Lifetime in Wireless Sensor Networks," *IEEE International Symposium on Artificial Intelligence and Signal Processing (AISP'11*,
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indexed by Scopus & IEEE), June 15-16, 2011, 118-123, DOI: <https://doi.org/10.1109/AISP.2011.5960995>.

- 7) H. Taheri, **P. Neamatollahi**, M. H. Yaghmaee, M. Naghibzadeh, "A Local Cluster Head Election Algorithm in Wireless Sensor Networks," *IEEE International Symposium on Computer Science and Software Engineering (CSSE'11, indexed by Scopus & IEEE)*, June 15-16, 2011, 38-43, DOI: <https://doi.org/10.1109/CSICSSE.2011.5963987>.
- 8) **P. Neamatollahi**, H. Taheri, M. Naghibzadeh, "A Distributed Token-based Scheme to Allocate Critical Resources," *IEEE International Symposium on Computer Science and Software Engineering (CSSE'11, indexed by Scopus & IEEE)*, June 15-16, 2011, 30-37, DOI: <https://doi.org/10.1109/CSICSSE.2011.5963988>.
- 9) **P. Neamatollahi**, H. Taheri, M. Naghibzadeh, M. H. Yaghmaee, "A Hybrid Clustering Approach for prolonging lifetime in wireless Sensor Networks," *IEEE International Symposium on Computer Networks and Distributed Systems (CNDS'11, indexed by Scopus & IEEE)*, Feb. 23-24, 2011, 170-174, DOI: <https://doi.org/10.1109/CNDS.2011.5764566>.
- 10) H. Taheri, **P. Neamatollahi**, M. Naghibzadeh, M. H. Yaghmaee, "Improving on HEED Protocol of Wireless Sensor Networks using NonProbabilistic Approach and Fuzzy Logic (HEED-NPF)," *IEEE International Symposium on Telecommunications (IST'10, indexed by Scopus & IEEE)*, Dec. 4-6, 2010, 193-198, DOI: <https://doi.org/10.1109/ISTEL.2010.5734023>.

Springer LNCS:

- 11) **P. Neamatollahi**, H. Taheri, M. Naghibzadeh, M. H. Yaghmaee, "DESC: Distributed Energy Efficient Scheme To Cluster Wireless Sensor Networks," *Wired/Wireless Internet Communications (WWIC'11), Lecture Notes in Computer Science (indexed by Scopus & Springer LNCS)*, Vol. 6649, Barcelona, Spain, 2011, 234-246, DOI: https://doi.org/10.1007/978-3-642-21560-5_20.

National Conferences:

- 12) **P. Neamatollahi**, H. Taheri, E. Toreini, M. Naghibzadeh, M. H. Yaghmaee, "A Clustering Protocol to Extend Lifetime of Wireless Sensor Networks," 16th National CSI Conference, pp. 822-827, March 2011 (In Persian), https://www.civilica.com/Paper-CSICC16-CSICC16_149.html.
- 13) **P. Neamatollahi**, H. Taheri, E. Toreini, M. Naghibzadeh, M. H. Yaghmaee, "Presenting Metrics to Evaluate the Cluster Qualification in Wireless Sensor Networks," 11th National Fuzzy Systems Conference, July 2011 (In Persian), https://www.civilica.com/Paper-ICFUZZYS11-ICFUZZYS11_060.html.

Book:

- 1) H. Taheri, **P. Neamatollahi**, "C Language Programming Guidance," (In Persian).

- IEEE Transactions on Industrial Informatics
 - IEEE Transactions on Mobile Computing
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- IEEE Transactions on Vehicular Technology
 - IEEE Sensors Journal
 - Elsevier Ad Hoc Networks
 - Elsevier Journal of Network and Computer Applications
 - Elsevier Computers & Electrical Engineering
 - Wiley Concurrency and Computation: Practice and Experience
 - Springer Journal of Supercomputing
 - Springer Wireless Networks
 - Springer Iranian Journal of Science and Technology, Transactions of Electrical Engineering
 - Ferdowsi Computer and Knowledge Engineering
-

RESEARCH PROJECTS

- Cooperation and membership in technical commission in a National Research Project entitled of “codification of 45 standards in ICT” (2015-2017).
 - Cooperation in research project entitled of “presenting an energy efficient clustering algorithm for wireless sensor networks” (2012-2017).
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SKILLS

Programming:

- MATLAB
- C++

Other Skills:

- Presentation and Writing Skills (manuscript and patent draft writing)
 - Mathematical, Analytical, and Problem-Solving Skills
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ACADEMIC TEACHING EXPERIENCE

- **Hakim Sabzevari University (2020-now)**
 - **Undergraduate Courses**
 - Computer fundamentals
 - C Programming Language
 - Algorithm Design
 - Operating Systems
 - Data Structures & Algorithms
 - Algorithm Design
 - Discrete Mathematics
 - Computational Theory
 - Compiler Design
 - **Ferdowsi University of Mashhad (2016-2020)**
 - **Graduate Courses**
 - Advanced Operating Systems
 - Advanced Computing Skills
 - **Undergraduate Courses**
 - C Programming Language
 - Python Programming Language
 - Advanced Programming
 - Operating Systems
-

LANGUAGE
SKILLS

- **English:** Fluent
 - **Persian:** Native
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References

- Dr. Ossama Younis
 - Prof. Mahmoud Naghibzadeh
 - Dr. Saeid Abrishami
 - Dr. Yasser Sedaghat
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