Academic Resume

Laila Mohamed

Associate Professor, Computer Science Department

Contact Information.

Building 61, Room S-112, Ext. 26412, lmohamed@kau.edu.sa.

Highest Degree.

1997, Doctor of Philosophy, Computer Networks, Anglia Polytechnic University, UK.

Academic and Professional Experiences.

1. **2011 - Present**
   Associate Professor, Computer Science Department, King Abdulaziz University.
2. **2011 - 2020**
   Associate Professor, Faculty of Graduate Studies for Statistical Research - Computer Science Department, Cairo University- Cairo.
3. **2001 - 2011**
   Assistant Professor, Faculty of Graduate Studies for Statistical Research - Computer Science Department, Cairo University- Cairo- Egypt.
4. **1989 - 2001**
   Lecturer, Computer Networks Department, National Telecommunication Institute, Cairo, Egypt.
5. **1984 - 1989**
   TA, Computer Networks Department, National Telecommunication Institute, Cairo, Egypt.

Research Interests.

Wireless Communication Networks, Internet of Things, Cyber Security, Multiple Access Technologies, Channel Modeling, Network Security, Machine Learning, Cognitive Radio Networks, Smart Grid, Heterogeneous Networks.

Teaching Interests.

Computer Networks, Digital Logic Design, Computer Ethics, Wireless Networks, Computer Organization and Architecture, Network Security.

Certifications and Trainings.

Social, Scientific and Professional Affiliation.

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Publications.

1. Hend Alshede, Laila Nassef, Nahed Alowidi, Etimad Fadel, "Ensemble Voting-Based Anomaly Detection For A Smart Grid Communication Infrastructure", Intelligent Automation &Amp; Soft Computing, vol: 36, pp. 3257-3278, 2023.
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2. Rasha Almarshdi, Laila Nassef, Etimad Fadel, Nahed Alowidi, "Hybrid Deep Learning Based Attack Detection For Imbalanced Data Classification", Intelligent Automation &Amp;Amp;Amp; Soft Computing, vol: 35, pp. 297-320, 2023.
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3. Suhare Solaiman, Laila Nassef, Etimad Fadel, "Many-To-One Spectrum Reusing Resource Allocation For Device-To-Device Communications", Ijarcce, vol: 10, 2021.
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4. Suhare Solaiman, Laila Nassef, Etimad Fadel, "User Clustering And Optimized Power Allocation For D2d Communications At Mmwave Underlaying Mimo-Noma Cellular Networks", Ieee Access, pp. 1-1, 2021.
   DOI: 10.1109/ACCESS.2021.3071992

5. Wajd Fahad Alghasmari, Laila Nassef, "Optimal Power Allocation In Downlink Non-Orthogonal Multiple Access (Noma)", International Journal Of Advanced Computer Science And Applications, vol: 12, 2021.
   DOI: 10.14569/IJACSA.2021.0120240

6. Ruqiah Fallatah, Etimad Fadel, "Adaptive-Multi Parameter Mac Protocol For Reliable Communication In The Smart Grid Environment", International Journal Of Advanced Research In Computer And Communication Engineering, vol: 10, pp. 8-19, 2021.
   DOI: 10.17148/IJARCCE.2021.10202

7. Laila Nassef, Reemah Alhebshi, "Fuzzy-Based Reliable And Secure Cooperative Spectrum Sensing For The Smart Grid", International Journal Of Advanced And Applied Sciences, vol: 8, pp. 92-100, 2021.
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8. Laila Nassef, Rasha Almarshdi, "Optimum Scheduling To Mitigate Inter-Wireless Body Area Network'S Interference", Ijarcce, vol: 7, pp. 107-114, 2020.
   DOI: 10.17148/IJARCCE.2018.7218

9. Laila Nassef, Reemah Al-Hebshi, "Fuzzy Based Reliable Cooperative Spectrum Sensing For Smart Grid Environment", International Journal Of Advanced Computer Science And Applications, vol: 11, 2020.
   DOI: 10.14569/IJACSA.2020.0110822

10. Wajd Fahad Alghasmari, Laila Nassef, "Power Allocation Evaluation For Downlink Non-Orthogonal Multiple Access (Noma)", International Journal Of Advanced Computer Science And Applications, vol: 11, 2020.
    DOI: 10.14569/IJACSA.2020.0110417

11. Ola Albeshri, Laila Nassef, Etimad Fadel, "Fuzzy Clustering For Next Generation Wireless Sensor Networks", International Journal Of Advanced Research In Computer And Communication Engineering, vol: 8, pp. 1-8, 2019.
    DOI: 10.17148/IJARCCE.2019.8201

12. Laila Nassef, Reemah Alhabshi, "Energy Efficient Fuzzy Based Clustering For Cognitive Radio Wireless Sensor Networks", International Journal Of Electrical And Computer Sciences, 2018.

13. Laila Nassef, Reemah El-Habshi, Linta Jose, "Clustering Based Routing For Wireless Sensor Networks In Smart Grid Environment", International Journal Of Advanced Smart Sensor Network Systems, vol: 8, pp. 01-14, 2018.
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14. Laila Nassef, Remah Elhebshi, Linta Jose, "Evaluating Performance Of Wireless Sensor Network In Realistic Smart Grid Environment", International Journal Of Wireless Mobile Networks, vol: 10, pp. 27-36, 2018.

   DOI: 10.5121/ijwmn.2018.10303

15. E. Fadel, M. Faheem, V.C. Gungor, L. Nassef, N. Akkari, M.G.A. Malik, S. Almasri, I.F. Akyildiz, "Spectrum-Aware Bio-Inspired Routing In Cognitive Radio Sensor Networks For Smart Grid Applications", Computer Communications, vol: 101, pp. 106-120, 2017.

   DOI: 10.1016/j.comcom.2016.12.020

16. Laila Nassef, Reemah Alhebshi, "Secure Spectrum Sensing In Cognitive Radio Sensor Networks: A Survey", International Journal Of Computational Engineering Research, 2016.

17. Imane M. A. Fahmy, Hesham A. Hefny, Laila Nassef, "The Mobile Version Of The Predicted Energy Efficient Bee-Inspired Routing (Peebr)", International Journal Of Advanced Research In Artificial Intelligence, vol: 5, 2016.

   DOI: 10.14569/IJARAI.2016.050505

18. Melike Yigit, V. Cagri Gungor, Etimad Fadel, Laila Nassef, Nadine Akkari, Ian F. Akyildiz, "Channel-Aware Routing And Priority-Aware Multi-Channel Scheduling For Wsn-Based Smart Grid Applications", Journal Of Network And Computer Applications, vol: 71, pp. 50-58, 2016.

   DOI: 10.1016/j.jnca.2016.05.015

19. Etimad Fadel, V.C. Gungor, Laila Nassef, Nadine Akkari, M.G. Abbas Malik, Suleiman Almasri, Ian F. Akyildiz, "A Survey On Wireless Sensor Networks For Smart Grid", Computer Communications, vol: 71, pp. 22-33, 2015.

   DOI: 10.1016/j.comcom.2015.09.006

20. Imane M., Laila Nassef, Hesham A., "On The Performance Of The Predicted Energy Efficient Bee-Inspired Routing (Peebr)", International Journal Of Advanced Computer Science And Applications, vol: 5, 2014.

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21. Imane M. A. Fahmy, Laila Nassef, Hesham A. Hefn, "Energy Consumption Efficiency And Performance Evaluation Of Dsdv And Aodv Routing Protocols", International Journal Of Computer Networks And Wireless Communications, vol: 4, No.2, 2014.

22. Imane M. A. Fahmy, Laila Nassef, Hesham A. Hefn, "Predicted Energy Efficient Bee-Inspired Routing (Peebr) Improvement And Performance Evaluation", 18 Th International Conference On Circuits, Systems, Communications And Computers, Greece, July 2014, 2014.

23. Imane M. A. Fahmy, Laila Nassef, Hesham A. Hefny, "Predicted Energy-Efficient Bee-Inspired Routing (Peebr) Path Selection Optimization", Journal Of Wireless Networking And Communications, vol: 4, pp. 33-41, 2014.

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24. Laila Mohamed, E Fadel, "Comparison Of Quality Of Service Routing Metrics In Wireless Mesh Networks", , 2012.

25. Yasser Eirefai, Laila Nassef, Imane Aly Saroit, "Enhancing Security Of Zone Routing Protocol Using Trust", Ninth International Conference On Informatics And Systems, 2012.

26. Imane M. A. Fahrnv, Hesham A. Hefny, Laila Nassef, "Peeper: Predictive Energy Efficiency Bee Routing Algorithm For Ad Hoc Mobile Wireless Networks", Ninth International Conference On Informatics And Systems, 2012.

27. Laila Mohamed, I Fahmy, L Nassef, H Hefny, "Evaluating Energy Consumption Efficiency Of Zone Based Routing Protocol", 46th Conference For Statistics, Computer Science, And Operational Research, Egypt, 2011.

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29. A.M.Abdallah, Laila Nassef, I.A.Saroit, "Analysis Of A Defenseless Ad Hoc On Demand Distance Vector Routing Protocol Under Routing Disruption Attacks", The 7th International Conference On Informatics And Systems, 2010.

30. I.M.Amin, Laila Nassef, I.A.Saroit, S.H.Ahmed, "Qos Parameters Improvement For The Hybrid Zone-Based Routing Protocol In Manet", The 7th International Conference On Informatics And Systems, 2010.

31. Laila Nassef, "A Secured Dynamic Source Routing Protocol For Mobile Ad Hoc Networks", Egyptian Computer Journal, vol: 37, Number 1, 2010.

32. M. Abd El Salaam, Laila Nassef, I.A.Saroit, "A Proposed Aggregation Scheme To Improve The Performance Of Voip Over Wlan", Al Azhar Engineering Eleventh International Conference, 2010.

33. L. Nassef, "On The Effects Of Fading And Mobility In On-Demand Routing Protocols", Egyptian Informatics Journal, vol: 11, pp. 67-74, 2010.
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35. A.M.Abdallah, Laila Nassef, I.A.Saroit, "A Comparative Analysis Of Ad Hoc Routing Protocols In Highly Dynamic Environment", 44th Annual Conference On Statistics, Computer Sciences And Operation Research, Institute Of Statistical Studies And Research, Cairo, pp. 1-18, 2009.

36. I.M.Amin, Laila.Nassef, I.A.Saroit, S.H.Ahmed, "Snr-Based Virtual Base Station For Establishing A Qos Framework In Manet", The 5th International Conference On Informatics And Systems, Infos2008, Faculty Of Computers And Information, 2008.

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