

Heba A. Kurdi

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MIT | Mechanical Engineering Department | Research Fellow

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ACADEMIC POSITIONS

- 2017- Present Research Fellow- Department of Mechanical Engineering – MIT, Cambridge, MA.
- 2014- 2017 Research Fellow- Department of Aeronautics and Astronautics – MIT, Cambridge, MA.
- 2017 – Present Associate Professor - Computer Science Department - College of Computer and Information Sciences – King Saud University – Riyadh – KSA.
- 2015 – 2017 Assistant Professor - Computer Science Department - College of Computer and Information Sciences – King Saud University – Riyadh – KSA.
- 2010 – 2015 Assistant Professor - Computer Science Department - College of Computer and Information Sciences – Al-Imam Muhammad Ibn Saud Islamic University – Riyadh – KSA.
- 2004 – 2010 Lecturer – Computer Science Department - College of Computer and Information Sciences - Al- Imam Muhammad Ibn Saud Islamic University – Riyadh – KSA.
- 2003 – 2004 Teacher assistant – Computer Science Department - College of Computer and Information Sciences - Al- Imam Muhammad Ibn Saud Islamic University – Riyadh – KSA.

MANAGEMENT AND CONSULTING EXPERIENCES

- 2017- Present Academic Consultant, Princess Nora Bint Abdul Rahman University, Riyadh.
- 2012- 2014 Project Manager for the Cloud Computing Research Project (24 Months project) funded by National Plan for Science, Technology and Innovation, Riyadh, KSA.
- 2013- 2014 Academic Consultant, Princess Nora Bint Abdul Rahman University, Riyadh.
- 2011- 2013 Vice Dean of Business career and Entrepreneurship, Al-Imam Muhammad Ibn Saud Islamic University – Riyadh – KSA.
- 2010 – 2011 Head of the Girls’ Section Computer Science Department - College of Computer and Information Sciences – Al-Imam Muhammad Ibn Saud Islamic University – Riyadh – KSA.
- 2004 – 2005 Head of the Girls’ Section -College of Computer and Information Sciences - Al- Imam Muhammad Ibn Saud Islamic University – Riyadh – KSA.
- 2001 – 2002 System analyst - Assistant Deputy Minister of the Educational Affairs – Ministry of Education – Riyadh – KSA.

EDUCATION

- 2005-2010 PhD – Computer Engineering – Wireless Networks & Communication – School of Engineering and Design - Brunel University (Brunel Engineering was ranked 5th in the UK in the Guardian University Guide 2010)– Uxbridge – UK.
- 2001- 2003 Master Degree - Applied Computer Sciences – College of Computer & Information Science - King Saud University – Riyadh – KSA.
- 1997- 1999 Bachelor Degree - Computer Applications – College of Computer & Information Science - King Saud University – Riyadh – KSA.

CERTIFICATES

- 2015 Executive Certificate in Management and Leadership, MIT Sloan School of Management, MIT, MA.
- 2015 Executive Certificate in Strategy and Innovation, MIT Sloan School of Management, MIT, MA.
- 2015 Human Resource Management, Harvard Business School, Harvard University, MA.
- 2015 Kauffman Teaching Certificate, MIT, MA.
- 2010 Associate Fellow– Higher Education Academy - UK.

SELECTED AWARDS AND LETTERS OF APPRECIATION

- 2015 First Place winner of Lincoln Lab (at MIT) Innovation Tournament.
- 2013 Best Paper Award at Science and Information Conference (SAI 2013), Sponsored by IEEE and Springer, London. UK.
- 2011 A Certificate of Associate Fellow of the Higher Education Academy, UK.
- 2012 Honor Shield from Rector of Imam Muhammad Ibn Saud Islamic University for academic and administrative contributions to the university
- 2011 A Certificate of appreciation from the General Administration of Education in Riyadh Region - where a project I supervised won in the Olympics National Science Innovation
- 2010 Trophy of distinction from the Saudi Cultural Bureau in the UK in recognition of outstanding research.
- 2010 Two letters of appreciation from HRH Saudi Ambassador Prince Mohammed bin Nawaf for remarkable contributions in organizing the Domestic Violence Forum as the head of the forum organizing committee, London. UK.
- 2006-2008 Three Thank you letters form Princess Fadwa Bint Khalid, wife of HRH Saudi Ambassador Prince Mohammed bin Nawaf for remarkable contributions in organizing social events and bazars for Saudi community, London, UK
- 2007 Letter of appreciation from the head of the Wireless Networks and Communication Centre (WNCC) in the UK for remarkable contributions in the submission of the European Union ICT project: CAP-NET: Context Aware Personal Network for Enhanced Service Provision
- 2007 Letter of appreciation from the head of the Wireless Networks and Communication

Centre (WNCC) in the UK for remarkable contributions in the submission of the European Union ICT project: PiViC: Service Centric Personalized Virtual Computer 2006-2008 Four Thank you letters from the Saudi Cultural Attaché in the UK for distinguished progress during PhD study.

GRANTS

- [1] Research Gant for one year Research Fellowship at MIT, from ARAMCO.
- [2] Research Gant (74,000 SR) for a visiting Researcher from King AbdulAziz City for Science and Technology, KSA.
- [3] Research Grant -PI (1,500,000 SR) for a cloud computing research project from Nation Plan for Science, Technology and Innovation, KSA, completed with excellence.

SELECTED PUBLICATIONS

Patents

- [1] H. A. Kurdi, M. Y. Abdulghani, 'Baggage Handling and Delivery System', US 16/216.860, projected publication date:11 June 2020.
- [2] H. Kurdi, J. How, "Dynamic Task Allocation in an Autonomous Multi-UAV Mission," patent- United States Patent and Trademark Office, US 10203701 B2; Feb 12, 2019 .
- [3] H. Kurdi, "Method of forming a mobile grid system and resource scheduling thereon," patent- United States Patent and Trademark Office, US 8,296,765 B2; Issued October 23, 2012. [<http://www.google.com/patents/US20120030683>]

Thesis

- [4] H. Kurdi, "Personal Mobile Grids with a Honeybee Inspired Resource Schedule," PhD thesis, School of Engineering and Design, Brunel University, Uxbridge, UK, 2010. [<http://bura.brunel.ac.uk/handle/2438/4519>]
- [5] H. Kurdi, "Emotion Tutorial: An E-Learning Tool for Autistic Children," MSc thesis, King Saud University, King Fahad Nation Library, Riyadh, KSA, 2004.

Book chapters

- [6] H. Kurdi, M. Li, and H. Al-Raweshidy, "Taxonomy of grid systems," book chapter, in the *Handbook of Research on P2P and Grid Systems for Service-Oriented Computing: Models, Methodologies and Applications*, N. Antonopoulos, G. Exarchakos, M. Li and A. Liotta, Eds., USA: Information Science Publishing, 2010. [<http://www.igi-global.com/chapter/taxonomy-grid-systems/40796>]

Journals

- [7] Heba Kurdi, Fadwa Ezzat, Lina Altoaimy, Syed Hassan Ahmed, Kamal Youcef-Toumi, "MultiCuckoo: Multi-Cloud Service Composition using a Cuckoo-Inspired Algorithm for the Internet of Things Applications," IEEE Access (ISI journal -Q1), 2018.

- [8] Heba A. Kurdi, Ebtesam Aloboud, Maram Alalwan, Sarah Alhassan, Ebtehal Alotaibi, Guillermo Bautista, Jonathan P. How, "Autonomous Task Allocation for Multi-UAV Systems Based on the Locust Elastic Behavior," *Applied Soft Computing* (ISI journal - Q1), Volume 71, October 2018, Pages 110-126, ISSN 1568-4946, <https://doi.org/10.1016/j.asoc.2018.06.006>.
- [9] Heba A. Kurdi, Shaden M. AlIsmail, Mohammad Mehedi Hassan, "LACE: A Locust-Inspired Scheduling Algorithm to Reduce Energy Consumption in Cloud Datacenters", *IEEE Access* (ISI journal - Q1), 2018, vol. 6, pp. 35435-35448, DOI: 10.1109/ACCESS.2018.2839028
- [10] Lina Altoaimy, Arwa Alromih, Shiroq Al-megren, Ghada Al-hudhud, Heba Kurdi, Kamal Youcef-Toumi, "Context-Aware Gossip-Based Protocol for Internet of Things Applications," *Sensors* (ISI journal – Q2), vol. 18(7), pp.1-23, 2018.
- [11] Heba A. Kurdi, Shiroq Al-Megren, Reham Althunyan, Asma Almulifi; "Effect of Exit Placement on Evacuation Plans," *European Journal of Operational Research* (ISI journal, Q1), 2 February 2018.
- [12] Heba Kurdi, Bushra Alshaiban, Lina Altoaimy, and Shada Alsalamah, "Trustyfeer: A Subjective Logic Trust Model For Smart City Peer-to-Peer Federated Clouds," *Wireless Communications and Mobile Computing* (ISI journal, Q3), 2018.
- [13] S. AlIsmail, H. Kurdi, "Review of Energy Reduction Techniques for Green Cloud Computing," *International Journal of Advanced Computer Science and Application*, (ISI journal), 2016, vol7 , pp 189-197.
- [14] H. Kurdi, S. Alnasser and M. Alhelal, "AuthenticPeer: A Reputation Management System for Peer-to-Peer Wireless Sensor Networks," *International Journal of Distributed Sensor Networks*, (ISI journal, Q3), Vol. 2015, pp. 1-11, [<http://dx.doi.org/10.1155/2015/637831>]
- [15] H. Kurdi, A. Al-Anazi, C. Campbell, A. Alfaries, "A Combinatorial Optimization Algorithm for Multiple Cloud Service Composition," *Computers & Electrical Engineering* (ISI journal, Q2), Vol. 42, 2015, pp 107–113, DOI 10.1016/j.compeleceng.2014.11.002
[<http://www.sciencedirect.com/science/article/pii/S0045790614002717>]
- [16] H. Kurdi, "Personal Mobile Grids: Ubiquitous Grid Environments for Personal Users," *International Journal of Ubiquitous Systems & Pervasive Networks*, Vol.6, pp 1-10, 2015, ISSN Print: 1923-7324
[http://www.iasks.org/sites/default/files/JUSPN20150601001010_0.pdf]
- [17] H. Kurdi, "HonestPeer: An Enhanced EigenTrust Algorithm for Reputation Management in P2P Systems," *Journal of King Saud University - Computer and Information Sciences*, Vol. 27, Issue 3, 2015, pp. 315–322, DOI 10.1016/j.jksuci.2014.10.002
[<http://www.sciencedirect.com/science/article/pii/S1319157815000440>]
- [18] H. Kurdi, S. Alkhaider, N. Alfaifi, "Development and Evaluation of a Web Based Question Answering System for Arabic Language," *International Journal in Natural Language Computing (IJNLC)*, vol. 3 no. 2, 2014, pp.12-32, DOI : 10.5121/ijnlc.2014.3202.
[<http://airccse.org/journal/ijnlc/papers/3214ijnlc02.pdf>]
- [19] H. Al-Souly, A. Al-Sheddi, H. Kurdi, "Lightweight Symmetric Encryption Algorithm for Secure Database," *International Journal of Advanced Computer Science and Applications*, vol. 3, no. 4, 2013, pp. 53-62. DOI 10.14569/SpecialIssue.2013.030407

[\[http://thesai.org/Publications/ViewPaper?Volume=3&Issue=4&Code=SpecialIssue&SerialNo=7\]](http://thesai.org/Publications/ViewPaper?Volume=3&Issue=4&Code=SpecialIssue&SerialNo=7).

- [20] H. Kurdi, "Review on Aspect Oriented Programming," *International Journal of Advanced Computer Science and Applications (IJACSA)*, vol. 4, no. 9, 2013, pp. 22-27, DOI 10.14569/IJACSA.2013.040904. [\[http://thesai.org/Downloads/Volume4No9/Paper_4-Review_on_Aspect_Oriented_Programming.pdf\]](http://thesai.org/Downloads/Volume4No9/Paper_4-Review_on_Aspect_Oriented_Programming.pdf),
- [21] C. Campbell, K. Loo, H. A. Kurdi and S. Khan, "Comparison of IEEE 802.11 and IEEE 802.15.4 for Future Green Multichannel Multi-radio Wireless Sensor Networks (WSNs)," *International Journal of Communication Networks and Information Security*, vol. 3, no.1, 2011, pp. 96-103. [\[http://www.ijcnis.org/index.php/ijcnis/article/view/75/71\]](http://www.ijcnis.org/index.php/ijcnis/article/view/75/71)
- [22] H. Kurdi, M. Li and H. S. Al-Raweshidy, "A classification of traditional and emerging grid systems," *IEEE Distributed Systems on line*, vol. 9, no.3, pp.1, Mar. 2008. ISSN: 1541-4922. [\[http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=4483779\]](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=4483779)

Conferences

- [23] Maha Bakalla, Hadeel Al-Jami, Heba Kurdi, Shada Alsalamah, "A QoS-Aware and Energy-Efficient Genetic Algorithm for Resource Allocation in Cloud Data Centers," *In proceedings of The 9th International Congress on Ultra Modern Telecommunications and Control Systems*, MUNICH, 6 - 8 November 2017.
- [24] Sarah Alkharji, Heba Kurdi, Rasha Altamimi, Ebtessam Aloboud "AuthenticPeer++: A Trust Management System for P2P Networks," *In proceedings of UKSim-AMSS 11th European Modelling Symposium on Mathematical Modelling and Computer Simulation*, Manchester, 20 - 22 November 2017.
- [25] Alaa AlQhtani, Ebtessam Aloboud, Rasha Altamimi, Heba Kurdi, "Impacts of VPNs and Firewalls on Public Cloud Performance," *In proceedings of UKSim-AMSS 11th European Modelling Symposium on Mathematical Modelling and Computer Simulation*, Manchester, 20 - 22 November 2017.
- [26] Norah Almansour, Heba Kurdi, "Identifying Accurate Classifier Models for a Text-based MERS-Cov Dataset," *In proceedings of Intelligent Systems Conference 2017 (IntelliSys 2017)*, London, 7-8 September 2017.
- [27] Shorouq Alotaibi, Nouf Alharbi, Heba Kurdi, "Face Recognition under Varying Illumination based on Homomorphic Filter and Local Binary Patterns," *In proceedings of Intelligent Systems Conference 2017 (IntelliSys 2017)*, London, 7-8 September 2017.
- [28] Laila Bashmal, Asma Almulifi, Heba Kurdi, "Hybrid Resource Discovery Algorithms for Unstructured Peer-to-Peer Networks," *The 8th International Conference on Ambient Systems, Networks and Technologies (ANT 2017)*, May 16-19, 2017, Madeira, Portugal
- [29] Alaa S. Al Qhtani, Alaa S. Al Shammari, Heba A. Kurdi, "A Fast Genetic Algorithm-based Evacuation Plan Generator," *The 8th International Conference on Ambient Systems, Networks and Technologies (ANT 2017)*, May 16-19, 2017, Madeira, Portugal
- [30] Naseebah H.Alkahtani, Sarah Almohsen, Nasibah Mohammed Alkahtani, Ghadah Abdullah Almalki, Safaa Samir Meshref, Hebah Kurdi, "A Semantic Multi-Agent system to Exchange Information between Hospitals," *the 7th International Conference on Sustainable Energy Information Technology (SEIT 2017)*, 16-19 May 2017, Madeira, Portugal.
- [31] Nora Alnashwan, Heba Kurdi, "Design and Implementation of Mobile Cloud

- Tourism Application,” *Computing conference*, London, 18-20 July 2017.
- [32] H. Kurdi, S. Alfaraj, A. Alatawi, “SFCS-Broker: Supporting Feedback Credibility Brokering Service for Multiple Clouds Environments,” *Lecture Notes on Data Engineering and Communications Technologies: The 11th International Conference on P2P, Parallel, Grid, Cloud and Internet Computing 2016*, 5-7 November 2016, Asan, Korea, pp 567-576, isbn=978-3-319-49109-7, doi=10.1007/978-3-319-49109-7_54,
[http://dx.doi.org/10.1007/978-3-319-49109-7_54]
- [33] A. Alomari, H. Kurdi, “Enhancing Video Streaming Services by Studying Distance Impact on the QoS in Cloud Computing Environments,” *Lecture Notes on Data Engineering and Communications Technologies: The 11th International Conference on P2P, Parallel, Grid, Cloud and Internet Computing 2016*, 5-7 November 2016, Asan, Korea, pp 243-251,
- [34] S. AlIsmail, H. Kurdi, “Green Algorithm to Reduce the Energy Consumption in Cloud Computing Data Centres,” in *Proc. of Computing Conference 2016*, 13-15 July 2016, London, UK, pp. 557-561, doi: 10.1109/SAI.2016.7556035.
- [35] Fai Alnuhait, Hawazen Albrahim, Heba Kurdi, Munera Alzaidan, Raghad Alghonaim, Shahad Aloqeely, "A mobile cloud application to minimize overbuying due to store deals", *2016 7th International Conference on Computer Science and Information Technology (CSIT)*, vol. 00, no. , pp. 1-6, 2016, doi:10.1109/CSIT.2016.7549478
- [36] H. Kurdi, J. How, G. Bautista, “Bio-Inspired Algorithm for Task Allocation in Multi-UAV Search and Rescue Missions,” in *Proc. of AIAA Guidance, Navigation, and Control Conference*, (ISI Conference Proceedings), 4-8 January 2016, San Diego,
- [37] H.. Kurdi, A. Alfayez, S. Alkharji, H. Almohammadi, M. Almutairi, A. Altuwaim, “A Cloud-Based Mobile Environmental Application for Riyadh City,” , *Lecture Notes in Computer Science*, (ISI Conference Proceedings Journal), Vol. 9188, pp. 380-389, July 2015, [http://link.springer.com/chapter/10.1007/978-3-319-20889-3_36]
- [38] H. A. Kurdi, A. Al-Rumaih, A. Al-Moammar, A. Al-Qahtani, A. Al-Abdullah, S. Al-Ghzzi, N. Al-Ajlan, “A Mobile Cloud Application for Crowd Management in the Grand Holy Mosque,” in *Proc. of International Conference on Next Generation Computing and Communication Technologies 2014 (ICNGCCT'14)* , 23-24 April 2014, Dubai, UAE.
- [39] H. Kurdi, S. Hamad, A. Khlifa, “Towards a Friendly User Interface on the Cloud,” *Lecture Notes in Computer Science*, Vol. 8518, pp. 148-15, 2014, (ISI Conference Proceedings Journal), DOI 10.1007/978-3-319-07626-3_14.
[http://link.springer.com/chapter/10.1007%2F978-3-319-07626-3_14]
- [40] H. Kurdi, E. Alotaibi, “A hybrid approach for scheduling virtual machines in private clouds ,” *Procedia Computer Science* (ISI Conference Proceedings Journal), 2014, Volume 34, pp. 249–256.
DOI: 10.1016/j.procs.2014.07.019
[http://www.sciencedirect.com/science/article/pii/S1877050914008746]
- [41] H. Kurdi, E. Aloboud, S. Alhasan, E. Alotaibi “An algorithm for handling starvation and resource rejection in public clouds,” *Procedia Computer Science* (ISI Conference Proceedings Journal), Volume 34, 2014, pp. 242–248, DOI: 10.1016/j.procs.2014.07.018.
[http://www.sciencedirect.com/science/article/pii/S1877050914008734]
- [42] H. Kurid, T. Alnusairi, H. Almujaheed, “OBAME: Optimized Bio-inspired Algorithm

- to Maximize Search Efficiency in P2P Databases,” *Procedia Computer Science* (ISI Conference Proceedings Journal), Vol. 21, 2013, pp. 60-67.
<http://www.sciencedirect.com/science/article/pii/S187705091300803X>
- [43] E. Al-rayies, H. Kurid, “Performance Analysis of load balancing Architectures in Cloud computing,” *In proc. of The 7th European Modelling Symposium on Mathematical Modelling and Computer Simulation* (ISI Conference Proceedings), 20-22 November 2013, Manchester, UK.
- [44] H. Kurid, M. Enazi, A. Al-Faries, “Evaluating Firewall Models for Hybrid Clouds,” *In proc. of The 7th European Modelling Symposium on Mathematical Modelling and Computer Simulation* (ISI Conference Proceedings), 20-22 November 2013, Manchester, UK.
- [45] H. Kurid, “Survey on Traffic Control using Closed Circuit Television (CCTV),” *In proc. of The International Conference on Digital Information Processing, E-Business and Cloud Computing DIPECC*, 23-25 October, Dubai, UAE.
<http://paper.researchbib.com/?action=viewPaperDetails&paperid=9707&uid=r73d3dj>
- [46] H. Kurdi, T. Alnusairi, H. Almujaheed, “OBAME: Optimized Bio-inspired Algorithm to Maximize Search Efficiency in P2P Databases,” *In proc. of The 4th International Conference on Emerging Ubiquitous Systems and Pervasive Networks EUSPN* (ISI Conference Proceedings), 21-24 October 2013, Nigra Falls, Canada.
<http://www.sciencedirect.com/science/article/pii/S187705091300803X>
- [47] H. Al-Souly, A. Al-Sheddi, H. Kurdi, “Enhanced TSFS Algorithm for Secure Database Encryption,” *In proc. of the Science and Information Conference*, 7-9 October 2013, London, UK. (BEST PAPER AWARD).
<http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=6661758&url=http%3A%2F%2Fieeexplore.ieee.org%2Fiel7%2F6653326%2F6661709%2F06661758.pdf%3Farnumber%3D6661758>
- [48] H. kurdi, A. Alkhawaiter, A. Al-Muaibed, B. Alotaibi, R. Alhaweal, T. Alotaibi “myPDA: A Mobile Healthcare Application for Personal Diet Assisting,” *in Proc. of the International Conference on Advanced Computer Science Applications and Technologies* (ISI Conference Proceedings), *ACSAT*, pp. 491-496, Nov. 2012, Kuala Lumpur, Malaysia, DOI 10.1109/ACSAT.2012.17
http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=6516404&url=http%3A%2F%2Fieeexplore.ieee.org%2Fxppls%2Fabs_all.jsp%3Farnumber%3D6516404
- [49] H. kurdi, H. S. Al-Raweshidy and M. Li “Design and Evaluation of A Personal Mobile Grid” in *Proc. of the International Conference on Advanced IT, engineering and Management AIM 2012*, Jul. 2012, Jeju, Korea.
- [50] H. Kurdi, A. S. Al-Wabil, “Research Study on Saudi Females Pursuing their Academic Studies Abroad,” in *Proc. of Saudi Females education conference*, 2011, Riyadh, KSA.
- [51] H. kurdi, H. S. Al-Raweshidy and M. Li “Personal Mobile Grids,” Presented at the 9th UK e-Science All Hands Meeting AHM2010, Sep. 2010, Cardiff, UK.
- [52] H. kurdi, N. H. Saeed, , M. F. Abbod and H.S. Al-Raweshidy, “An Intelligent Routing Scheme for Mobile Ad-hoc Networks,” in *Proc. of the 4th Saudi International Conference SiC10*, Jul. 2010, Manchester, UK.
- [53] H. Kurdi, M. Li and H. S. Al-Raweshidy, “A bio-inspired heuristic for non-clairvoyant scheduling,” in *Proc. of the 3rd Saudi International Conference SiC09*, Jun. 2009, Surrey, UK.
- [54] H. kurdi, N. H. Saeed, , M. F. Abbod and H. S. Al-Raweshidy, “IMAN: Intelligent

- MANET Routing System,” in *Proc. of the 3rd Saudi International Conference SiC09*, Jun. 2009, Surrey, UK.
- [55] H. Kurdi, M. Li and H. S. Al-Raweshidy, “A generic framework for resource scheduling in Personal Mobile Grids based on honeybee colony,” in *Proc. of the IEEE 3rd International Conference on Next Generation Mobile Applications, Services and Technologies IEEE NGMAST '09* (ISI Conference Proceedings), pp. 297-302, Sep. 2008, Cardiff, UK.
[\[http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=4756448&url=http%3A%2F%2Fieeexplore.ieee.org%2Fxppls%2Fabs_all.jsp%3Farnumber%3D4756448\]](http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=4756448&url=http%3A%2F%2Fieeexplore.ieee.org%2Fxppls%2Fabs_all.jsp%3Farnumber%3D4756448)
- [56] N. Saeed, M. F. Abbod, T. H. Sulaiman, H. S. Al-Raweshidy and H. kurdi, “Intelligent MANET Routing Protocol Selector,” in *Proc. of the IEEE 3rd International Conference on Next Generation Mobile Applications, Services and Technologies IEEE NGMAST '09* (ISI Conference Proceedings), pp. 389-394, Sep. 2008, Cardiff, UK.
- [57] H. Kurdi, M. Li and H. S. Al-Raweshidy, “A bio-inspired scheduling heuristic for Personal Mobile Grids,” in *Proc. of the 14th International Conference on Automation and Computing ICAC08*, Sep. 2008, Uxbridge, UK.
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- [58] H. Kurdi, M. Li and H. S. Al-Raweshidy, “HoPe: a honeybee inspired resource scheduling heuristic for Personal Mobile Grids,” in *Proc. of the 2nd Saudi Innovative International Conference SiC08*, 9-10 Jun. 2008, Leeds, UK.
- [59] H. Kurdi, H Al-Raweshidy, I. Khan and M. Li, “PM-Grid: A Personal Mobile Grid for Ubiquitous Computing Environments,” in *Proc. of the 1st Saudi International Conference SIC07*, May 2007, Newcastle, UK.
- [60] H. Aboalsamh, G. Assassa, H. Kurdi, “The Development of an E-Learning Tool for Autistic Children,” in *Proc. Of 1st National IT Symposium NITS200, Bridging the Digital Divide: Challenges and Solutions*, Feb. 2006, KSA.

PROFESSIONAL MEMBERSHIPS

- Associate Fellow: Higher Education Academy, UK.
- Member of AWIS: Association of women in Science.
- Member of IEEE: Institute of Electrical and Electronics Engineers.
- Member of WiE: Institute of Women in Engineering.
- Member of ICST: Institute for Computer Sciences, Social Informatics and Telecommunications Engineering.
- TPC member in several international conferences and reviewer in several international journals.

SOCIAL PARTICIPATIONS AND OTHER EXPERIENCES

- Head of the Organizing Committee for the Saudi First Forum of Domestic Violence, London, 2010.
- Diplomat: During my course of PhD study in the UK, I was a diplomat (wife of the Saudi Health attaché). This has widen my experience, by participating and attending several diplomatic and VIP events which added to my communication and social skills

(205-2010).

- Head of the media of Tawasul Group, a volunteer group of Saudi ladies for helping Saudi females and families in the UK (2006-2009).
- Founder of Mobta3athat newsgroup, the main communication media for Saudi females studying in the UK (2005-2011).
- Al-Imam Mohammad Ibn Saudi Islamic University representative in the donation program for Handicapped Children Association.

RESEARCH INTERESTS

- Artificial Intelligence/Distributed Artificial Intelligence
- Bio-inspired computing and engineering.
- Multi agent systems and Unmanned Ariel Vehicles (UAVs)
- Large scale computing systems, cloud computing and grid computing
- Wireless and mobile networks
- Data Science