

# Curriculum Vitae

Hebah Abdul Aziz ElGibreen

## **PERSONAL INFORMATION**

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- Nationality: Saudi
- Place of Birth: Riyadh
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- E-mail: [Hjibreen@ksu.edu.sa](mailto:Hjibreen@ksu.edu.sa)
- Website: <http://fac.ksu.edu.sa/hjibreen/home>

## **EDUCATION**

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- [2015] **Doctor of Philosophy in Computer and Information Sciences (Information Systems Track: Machine Learning)**, College of Computer and information, King Saud University, Riyadh, Saudi Arabia.
- [2009] **Master's degree of Information System**, College of Computer and information, King Saud University, Riyadh, Saudi Arabia.
- [2006] **Bachelor's degree of Computer and information Sciences**, College of Computer and information, King Saud University, Riyadh, Saudi Arabia.

## **QUALIFICATIONS**

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- [2017] **Kaufman Teaching Certificate**, Massachusetts Institute of Technology (MIT), USA
- [2015] **Multiple Intelligence in College Teaching**, KSU Deanship of Skills Development, Riyadh
- [2010] **Oracle Database 11g Administration**, Riyadh
- [2010] **GRE**, Computer-based test.
- [2009] **TOFEL**, Internet-based test.
- [2007] **Photoshop CS2**, New Horizons Center, Riyadh.
- [2006] **ICDL Certificate**, Riyadh.
- [2003] **Front page**, New Horizons Center, Riyadh.
- [2002] **Introduction to Computer**, New Horizons Center, Riyadh.
- [2002] **Ms-Windows**, New Horizons Center, Riyadh.
- [2002] **Ms-Office (Word and Excel)**, New Horizons Center, Riyadh.
- [2002] **Internet**, New Horizons Center, Riyadh.

## **MEMBERSHIP**

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- [2017] Sustaining Member of the National Postdoctoral Association (NPA), USA
- [2009-2010] Member in HCI & Web Science research group.

## WORKING EXPERIENCE

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- [2016-2017] **Research Fellow at Massachusetts Institute of Technology (MIT)**, MRL Lab, Mechanical Engineering Department, Cambridge, USA; and funded by Saudi Aramco Ibn Khaldun Fellowship for Saudi Women.
- [2015] Currently working as an **Assistant Professor in Information Technology Department, College of Computer and Information Sciences, King Saud University**, Riyadh, Saudi Arabia.
- [2010 to 2015] Experience as a **lecturer in Information Technology Department, College of Computer and Information Sciences, King Saud University**, Riyadh, Saudi Arabia.
- [2007 to 2009] Experience as **T.A in Information Technology Department, College of Computer and Information Sciences, King Saud University**, Riyadh, Saudi Arabia.
- [2007] **Volunteer as a T.A at NXT LEGO robot program for gifted girls**. This program is one of “King Abdul-Aziz & His Companions Foundation for the Gifted” programs that have been done in KSA that year, and it was executed by “Imam Mohammad Bin Saud Islamic University.

## PUBLICATIONS

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- H. Elgibreen and M. Aksoy, Relational Reinforcement Rule Induction and the Effect of Pruning, *The 18th International Conference on Artificial Intelligence*, USA, L.A, 2016
- H. Elgibreen and M. Aksoy, Adopting Relational Reinforcement Learning in Covering Algorithms for Numeric and Noisy Environments, *International Journal of Computational Intelligence Systems*. **9**(3) (2016) 572-594. (ISI)
- H. ElGibreen and M. S. Aksoy, "Classifying Continuous Classes with Reinforcement Learning RULES," in *Intelligent Information and Database Systems*. vol. 9012, N. T. Nguyen, B. Trawiński, and R. Kosala, Eds., ed: Springer International Publishing, 2015, pp. 116–127.
- H. ElGibreen and M. S. Aksoy, "Incremental Transfer RULES with Incomplete Data," in *The 5th IEEE Symposium on Computational Intelligence and Data Mining (CIDM 2014)* Orlando, Florida, U.S.A, 2014.
- H. ElGibreen and M. S. Aksoy, “Inductive Learning for Continuous Classes and the Effect of RULES Family,” *International Journal of Information and Education Technology*, vol. 5, pp. 564-570, 2014.
- H. ElGibreen and M. S. Aksoy, "Continuous Features in Inductive Learning and the Effect of RULES Family," *International Journal of Computers*, vol 8, pp. 66-75, 2014.
- H. ElGibreen and M. S. Aksoy, "RULES-IT: Incremental Transfer Learning with RULES Family," *Frontiers of Computer Science*, vol. 8, pp. 537-562, 2014. (ISI)

- H. ElGibreen and M. Aksoy, "RULES Family: Where does it stand in Inductive Learning?", *8th International Conference on Computer Engineering and Application (CEA '14)*, Tenerife, Spain, 2014.
- H. ElGibreen and M. Aksoy, "Multi Model Transfer Learning with RULES Family," *in Machine Learning and Data Mining in Pattern Recognition*. vol. 7988, P. Perner, Ed., ed: Springer Berlin Heidelberg, 2013, pp. 42-56.
- H. ElGibreen and M. S. Aksoy, "RULES – TL: A simple and Improved RULES Algorithm for Incomplete and Large Data," *Journal of Theoretical and Applied Information Technology*, vol. 47, 2013.
- H. ElGibreen and S. El-Masri, Improving Web Content Management System: Template Personalization Approach, *Journal of Engineering and Technology Research (JETR)*, vol. 4 (7), pp. 149 – 163, 2012.
- H. ElGibreen and A. Mirza, Provider Recommendation in E-Service Portals using Group Profiling, *Journal of Theoretical and Applied Information Technology*, Vol. 42. No. 1, pp 100 – 112, 2012.
- H. ElGibreen and S. El-Masri, Template Personalization and Evolutionary Algorithms, GEM'12 - 9th International Conference on Genetic and Evolutionary Methods, USA, 2012.
- H. ElGibreen and A. Mirza, Group Profiling in E-Service Portals, *EEE'11 - 10th Int'l Conference on e-Learning, e-Business, Enterprise Information Systems, and e-Government*, USA, 2011.
- M. Ykhlef and H. El-Gibreen, Mining Pharmacy Database Using Evolutionary Genetic Algorithm, *International Journal of Electronics and Telecommunications*, Volume 56, No 4, pp. 427-432, 2010.
- Areej Al-Wabil, Hebah ElGibreen, Amal AlSuwaidan, Reem Al-Salloom. Heuristics for the Creation of Educational & Game Software for Children with Dyslexia. *Accepted for presentation in the 2010 International Conference on Information and Multimedia Technology ICIMT in Hong Kong*, Dec 28-30, 2010; published by IEEE.
- A. Al-Wabil, H. ElGibreen, R. George and B. AlDosary, Exploring the Validity of Learning Styles as Personalization Parameters in eLearning Environments: An Eyetracking Study, *International Conference on Computer Technology and Development ICCTD 2010*, Cairo, Egypt, 2010.
- M. Ykhlef and H. ElGibreen, Mining Sequential Patterns Using Hybrid Evolutionary Algorithm, *World Academy of Science, Engineering and Technology*, Volume 60, pp. 863-863, 2009.
- M. Ykhlef and H. El-Gibreen, Mining Sequential Patterns in Pharmacy Database Using Genetic Algorithm, *Proceedings of 4th International Conference on Broadband Communication, Information Technology & Biomedical Applications BroadBandCom '09*, Wroclaw, Poland, 2009.

## GRANTS AND AWARDS

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- [2017] Massachusetts Institute of Technology USA  
**Best Presenter Award** – Given by the Boston Postdoctoral Association at Careers and Collaboration in Science Symposium
- [2016] College of Computer and Information Science Riyadh  
**Best Instructor Award in IT Department**  
Award of Year 2016.
- [2016] Information Technology Department Riyadh  
**Best Academic Adviser of Year 2016**  
Based on students voting.
- [2016] College of Computer and Information Science Riyadh  
**Excellence in Research Activity Contest**  
Winning third place for ‘Best PhD Thesis’ section.
- [2014] King Abdulazaiz City For Science & Technology Riyadh  
**Grant to fund project number “153 - 35 - ٤ - ١”**
- [2007] College of Telecom and Information Riyadh  
**National Competition in Computer Skills**  
Winning the second place in ‘educating by computers’ section.

## INSTITUTIONAL AND PROFESSIONAL SERVICES

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- [2016] King Saud University Riyadh  
**Guest Trainer for Vice Rectorate for Graduate Studies and Scientific Research in Bamboo Initiative - Artificial Intelligence and Robotics Workshop (12/4/2016-5/7/1437)**
- [2015-Current] King Saud University Riyadh  
**Member of the Collage Advising Council**
- [2015-Current] King Saud University Riyadh  
**Head of the Partnerships Activation Committee (Collage Level)**
- [2015-Current] King Saud University Riyadh  
**Head of the Academic Advising Committee (Department Level)**
- [2015-Current] King Saud University Riyadh  
**Member of the Students Rights Committee (Collage Level)**
- [2015] King Saud University Riyadh  
**Trainer for the Deanship of Skills Development – Database Fundamentals**
- [2014] King Saud University Riyadh  
**Team leader for upgrading the IT Department Oracle server and the database lab**
- [2010] King Saud University Riyadh  
**Member of the Academic Accreditation Committee**

- [2010] King Saud University Riyadh  
**Revision of IT Department manual of undergraduate students' grade.**
- [2008] King Saud University Riyadh  
**National Assistance Center in Higher Education**  
Volunteer in high school student entrance exam
- [2008] King Saud University Riyadh  
**Volunteer in the acceptance exam of typing occupation.**

## ACTIVITIES

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- [2017] Massachusetts Institute of Technology USA  
**Invited Speaker at MRL lab – Dynamic Multi-Agent Task Allocation: The Current and Future**
- [2017] Massachusetts Institute of Technology USA  
**Invited Speaker at IBK Fellowship Workshop – Machine Learning Techniques for Collaborative Robotics in Dynamic and Shared Environment**
- [2017] Massachusetts Institute of Technology USA  
**Presenter at Symposium on Careers and Collaboration in Science (B-SoCCS) – Heterogeneous Collaborative Robotics in Uncertain Environments**
- [2017] Massachusetts Institute of Technology USA  
**Volunteered as a member in the organization team of 2.12 robotics competition**
- [2017] Maddox Events USA  
**Women of Silicon Valley Conference (19-20 April 2017)**
- [2017] Massachusetts Institute of Technology USA  
**Mechanical Engineering Research Exhibition (MERE'16)**
- [2017] Massachusetts Institute of Technology USA  
**Simulations Using Particles by Petros Koumoutsakos**
- [2017] Massachusetts Institute of Technology USA  
**Effective Presentation Skills**
- [2017] Massachusetts Institute of Technology USA  
**Patent Searching Fundamentals**
- [2017] Massachusetts Institute of Technology USA  
**PDFs and Citations: Zotero and Mendeley**
- [2017] Massachusetts Institute of Technology USA  
**Deep architectures for visual reasoning, multimodal learning, and decision-making**
- [2017] Massachusetts Institute of Technology USA  
**Basics of Grant Writing**

- [2017] Massachusetts Institute of Technology USA  
**From High-Level Tasks to Robot Motions: Combined Task and Motion Attend – Planning as Hybrid Search over Discrete and Continuous Spaces**
- [2017] Massachusetts Institute of Technology USA  
**After the PhD/Postdoc: Positioning yourself for Success**
- [2017] Massachusetts Institute of Technology USA  
**Basics of Scientific Writing**
- [2017] Massachusetts Institute of Technology USA  
**Toward Resilient Robot Autonomy through Learning, Interaction and Semantic Reasoning**
- [2017] Massachusetts Institute of Technology USA  
**Branding-Effective Communication Skills**
- [2017] Massachusetts Institute of Technology USA  
**Strategies for Managing Conflict Constructively**
- [2016] King Saud University Riyadh  
**International Practice Patent Value – Between Quantity and Quality (24/4/2016-17/7/1437)**
- [2016] King Saud University Riyadh  
**Publishing Papers in ISI-Indexed Journals: Tips and Tricks (20/4/2016 – 13/7/1437)**
- [2016] King Abdulaziz City for Science and Technology Riyadh  
**Integrated Transit Systems Project workshop (23/3/2016-14/6/1437)**
- [2016] Vice Rectorate for Scientific Research Riyadh  
**Seminar on How Good is this Paper? (6/3/2016-26/5/1437)**
- [2016] Deanship of Skill Development Riyadh  
**Workshop on Course Design and Construction (23/2/2016-14/5/1437)**
- [2016] Preparation Year Riyadh  
**Guest speaker in MASARI program as a representative of the IT department (5/5/1437).**
- [2015] Deanship of Skill Development Riyadh  
**Workshop on using personal response systems - Clickers (1437-2-27)**
- [2015] IWAN Research Group Riyadh  
**Invited Speaker**
- [2015] Deanship of Skill Development Riyadh  
**Multiple Intelligence in Collage Teaching (1437-1-1)**
- [2014] IEEE Computational Intelligence Society Orlando  
**Paper Presentation in the 5th IEEE Symposium on Computational Intelligence and Data Mining**

- [2014] KACST Riyadh  
**The 1st Saudi Conference for Research Support**
- [2013] KACST Riyadh  
**The 2<sup>nd</sup> International Conference on Information Technology**
- [2011] Springer Riyadh  
**How To Publish - Springer Author Workshop**
- [2010] Kind Saud University Riyadh  
**Improving of Student Learning and Motivation Workshop**
- [2010] Kind Saud University Riyadh  
**Assessing Student Learning Workshop**
- [2010] Kind Saud University Riyadh  
**Teaching Using Active Learning Method Workshop**
- [2010] Microsoft Riyadh  
**Microsoft Web Development Workshop**
- [2010] Prince Megrin Data Mining Center Riyadh  
**Prince Megrin Data Mining Workshop**
- [2010] King Saud University Riyadh  
**Meeting of the Minds Conference**
- [2010] Riyadh  
**Saudi e-Health Conference 2010 “Applied Health Informatics”.**
- [2010] Microsoft Riyadh  
**Programming with C# Workshop**
- [2010] Oracle Riyadh  
**Oracle Database 11g: Administration Workshop I Ed2**
- [2010] Oracle Riyadh  
**Oracle Database 11g: Administration Workshop II Ed2**
- [2009] Microsoft Riyadh  
**GDC 2009 Conference**
- [2009] Wroclaw University of Technology Poland  
**Paper Presentation in the BroadBandCom '09 Conference**
- [2006] Women Without Borders Riyadh  
**“This Is Me!” Workshop: Self-Presentation Skills - Career and Beyond**
- [2006] Microsoft Riyadh  
**GDC 2006 Conference**