Curriculum Vitae

1. **Name and Title**: Prof. Ghada Al-Hudhud
2. **Education:**

* PhD: Artificial Intelligence

Thesis Title: Real Time Multi-Agent Communication Protocols for Cooperative Robots with Emergent Behavior, De Montfort University, Leicester/UK, Jan 2006.

* MSc. Digital Signal & Image Processing, De Montfort University, Leicester/UK, Sep 2003.

1. **Personal Information and Contact Details:**

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<http://fac.ksu.edu.sa/galhudhud/cv>

<https://www.linkedin.com/in/galhudhud/?originalSubdomain=sa>

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

<https://www.researchgate.net/profile/Ghada_Al-Hudhud>

<https://dblp.org/pers/hd/a/Al=Hudhud:Ghada>

<https://www.journals.elsevier.com/journal-of-king-saud-university-computer-and-information-sciences/editorial-board/professor-ghada-al-hudhud>

1. **Academic experience:**
2. September 2018- Present: Professor and director for postgraduate studies at Department of Information Technology/ College of Computer and Information Sciences at King Saud University, Riyadh/KSA. Chairing a committee to successfully found a the IT MSc and the IT PhD program in the department.
3. May 2014- Present: Associate professor and director for postgraduate studies at Department of Information Technology/ College of Computer and Information Sciences at King Saud University, Riyadh/KSA.
4. Sep 2011- June 2014: Assistant professor and coordinator of capstone courses (graduation projects) at Department of Information Technology/ College of Computer and Information Sciences at King Saud University, Riyadh/KSA. Chairing a committee to successfully found a MSc program in the department.
5. Sep 2008- Aug 2011: Amman Al-Ahliyya University, Head of Department of Software Engineering.
6. Sep 2006- Aug 2008: Amman Al-Ahliyya University, Assistant Professor at Department of Software Engineering, Amman/ Jordan.
7. Sep2004-Aug2006: Lecturer at School of Computing Sciences and Engineering/ De Montfort University, Leicester/ UK.
8. **Academic Activities**

* Sep 2019, Patent Filing: Intellectual Property Rights & Trade Marks targeting Faculty members, MSc and PhD students who work on novel research and commercialization of new IT applications.
* Feb 2019, organized **Post Dissertation Life** targeting faculty members who are back from PhD scholarship. This is an orientation seminar in order to direct the recent comers from the scholarships and to readjust their teaching strategies, research experience. This seminar helps in enriching the college and department research and teaching practices.
* 19 Sep 2018: conducted a research seminar on **how Documenting and Citing Scientific Research** under the Scientific and Medical Sciences Research Center, Female Campus, King Saud University.
* 29 Aug 2018, presented **Brain Computer Interaction: Six years’ journey**. This seminar was held by SIGCHI, Riyadh, KSA
* 25 May, 2017: presented ***Research Skills Series: Qualitative and quantitative research methods*** [Smart-DS Research Group](https://sites.google.com/site/dscs437/calendar)
* Mar 7, 2017 presented a seminar [Passive Brain Computer Interface Smart Office Controller](https://skerg.ksu.edu.sa/node/472)Seminar with Ms. Layla Alqahtani in Software & Knowledge Research Group [SKERG](http://skerg.ksu.edu.sa/node/176)
* 20 Apr. 2017Smart Play: **Mobile Game for Blind/Visually Impaired Player with Sighted Opponent**. [Idea Pedia](https://sites.google.com/site/dscs437/discussion-forum/smartplay) is a paper writing session to one on the Research Group projects
* 22 Feb, 2017 presented the **Smart-DS Research Group Vision, Mission and Objectives** in the research group opening event.
* Jan 10, 2017 Presented a Seminar with my students Lama Tatwany, Eman Alnkhailan, Sara Alshehri in Software & Knowledge Research Group [SKERG](http://skerg.ksu.edu.sa/node/176) titled [Evaluating the Quality of Data Mining Systems](https://skerg.ksu.edu.sa/node/490)
* Jan 3, 2017 Presented a Seminar with my students Muneera Alawad, Basma Alhazmi, Mona Alshahrani in Software & Knowledge Research Group [SKERG](http://skerg.ksu.edu.sa/node/176) titled **Six Sigma Quality Evaluation of Telegraph Messaging System**
* September 15, 2016 presented a Seminar in Software & Knowledge Research Group [SKERG](http://skerg.ksu.edu.sa/node/176) titled **Real -Time Visualization of Neuronal Activity during Perception** Journal Club @
* Apr 19, 2016 presented a Seminar with my student Wejdan ALtamimi in Software & Knowledge Research Group [SKERG](http://skerg.ksu.edu.sa/node/176) titled: [Quality Assessment of Mobile Games: Impact on Human Behavior](https://skerg.ksu.edu.sa/QAMG)
* 23 Feb 2016[Route Project: presented a Seminar with Najat Alrashed, Maha Alrashed in Software & Knowledge Research Group [SKERG](http://skerg.ksu.edu.sa/node/176) titled: Smart Navigation in Riyadh Using Riyadh Metro Project](https://skerg.ksu.edu.sa/SRM).
* 01 Dec 2015 Seminar with my student Marwa Khan in Software & Knowledge Research Group [SKERG](http://skerg.ksu.edu.sa/node/176) titled: [Quality Assessment Model for Web based and Desktop Applications Development Process](https://skerg.ksu.edu.sa/QAM)
* 2014-2016, Research consultations in the deanship of Postgraduate and Scientific Research.
* May 2015, running How to Prepare Your MSc Thesis Using LaTex workshop.
* April 2015, running How to write your MSc Thesis Proposal workshop.
* January 2015, running How to Write Research Proposal for Seeking Funds workshop
* 2013-2014, running a Series of Seminars for IT Department GraduationProjects Students on How to go through the project stages: Requirements elicitation, analysis, design, integration, and testing, over five semesters.
* March 2012, Participated in Teaching Best Practices workshop: Using Technology in Teaching-Learning Activities.
* Proposed IT Master Program, Chairing the committee, completed and submitted for College level review May 2012, College of Computer and Information Sciences/ King Saud University, Riyadh/ KSA.
* August 2012-June 2014 Served as Graduation Projects Committee Coordinator for both graduation project I and II, College of Computer and Information Sciences/ King Saud University, Riyadh/ KSA.
* 2011: served as a member of Technology Engaged Learning Quality Assurance Committee, Prince Sultan University, Riyadh/ KSA.
* 2011: Served as a member of Institutional Level Committee for Strategic Planning Committee, Prince Sultan University, Riyadh/ KSA.

1. Service activities (within and outside of the institution):

* Chaired a number of committees for establishing new Laboratories in the college. This included: writing laboratory hardware and software equipment required, contacting vendors & managing quotations, and communicate the findings with upper management to finalize the deals. Examples of the laboratories: biometrics and biomedical Laboratory (ZKTECO biometric lab devices), Physics for IT laboratory (LabView circuits and networks fundamentals).
* Chaired the postgraduate committee @ Department of Information Technology since 2012, proposed MSc program and PhD program, running all students and MSc program requirements, directing all activities related to the postgraduate studies in the department.
* 2013, 2014 Served as a member of Technical Judgment Committee for Arab Technology Business Plan Competition​ organized by Arab Science and Technology Foundation ASTF, UAE.
* 2013 Served as a member of Technical Committee for Robotics Workshop organized by Aramco, Held at King Abdullah University, Jeddah/ KSA.
* 2009: Served as a member of judgment committee for The Arab Robotics Championship, Jordan.
* 2006- 2010: Served as a member of judgment committee for The International First LEGO (Robots) League, Jordan
* April- July 2008: Served as a member of the editorial board of Advances in Computing Application 2008, Al-Balqua University/ Jordan.
* March 2007: A keynote Speaker for the Women and ICT Conference/ Al-Zahraa College for the Information Technology about Women in ICT world. Muscat/ Oman
* June 2006: Seminar Visualization Center at University of Manchester: Dynamic robot-robot communication with local-global views- See more at: <http://fac.ksu.edu.sa/galhudhud/page/20055#sthash.C5XQzBDe.dpuf>

1. **Reviewing papers in Professional Journals**
2. **Image and Vision Computing Journal, Published by Elsiever, ScienceDirect**
3. **IEEE Transactions on Signal Processing**
4. The Seventh International Conference of Social and Organizational Informatics and Cybernetics ISOC, 2011 Florida, USA. <http://www.iiis2011.org/imsci/Website/AdditionalReviewers.asp?vc=11>
5. Journal of King Saud University, Computer and information Sciences, Published by Elsiever, ScienceDirect
6. Applied Computing and Informatics (ACI)
7. International Journal of Computing and Information Sciences (IJCIS)
8. Elsevier, Image and Vision Computing Journal (IVC)
9. IEEE Transactions on Signal Processing
10. **Current membership in professional organizations:**
11. Member of International European Association of Designing Innovation Policies
12. Professional membership in Association of Computing Machinery ACM
13. Professional membership in British Computing Society BCS
14. Member of editorial board of the International Journal of Intelligent Computing
15. **Honors and awards**
16. 2015: 2nd place prize in the Advanced Electronics Company (AEC) best graduation project competition for our project, ‘Brain Signals for Smart Offices’ King Saud University, Riyadh, Saudi Arabia.
17. 2015 : Best Project Award for our project, ‘Brain Signals for Smart Offices’ at the 4th Annual Undergraduate Research Conference in Applied Computing in Sheikh Zayed University, Dubai, UAE.
18. 2015 Best Teaching award at the college level, College of Computer Science, King Saud University<http://news.ksu.edu.sa/ar/node/107230>
19. 2014: 1st place prize in the Annual Project Fair, Brain Signals for Personal Identification System. College of Computer and Information Sciences, King Saud University, Riyadh, Saudi Arabia.
20. 2011: Best Researcher award from Prince Sultan University
21. 2010: Awarded a prize from The Ministry of Trade and Industry, Jordan as one of fifteen projects being successfully implemented knowledge transfer into technology: devising speech recognition systems into disability-help products.
22. **Professional development activities:**
23. May 2017: Mobile First Training course by IBM, certified training.
24. August 2009: Completed Patent Drafting Training Course organized by Higher Council for Science and Technology/ Jordan, and the Worldwide Intellectual Property Organization. The course was run in three phases:
25. August 2008: Certified by the European Commission for participation in the training course: Developing Innovation Policies in Developing Countries, organized by European Commission at Royal Scientific Society, Amman/ Jordan
26. **Funded Research Projects**

* 2013-2018, Project Title: Visual Brain Computing VisBC(API) to develop Multimodal Interaction for Controlling Computer Devices. 2013-2018. A project funded by the Deanship of scientific research at King Saud University, Riyadh/ KSA.
* May 25, 2016, Project Title: Youth Urban Innovation project: Educational Platform for the Saudi Smart Cities in KSA. This project was funded by ARAB URBAN DEVELOPMENT INSTITUTE, United Kingdom. The project aimed at implementing KSA 2030 Vision and the UN Sustainable Development Goals.
* Project title: empathetic serious gaming for dyslexia: brainwave Arabic phonological processing training app. 2013-2014. A project funded by the Software Knowledge Engineering Research Group SKERG. at King Saud University, Riyadh/ KSA.
* Project Title: Using Brain Signals Patterns for Biometric Identity Verification Systems. 2013-2014: a project funded by the Research Center at College of Computer Sciences and Engineering at King Saud University, Riyadh/ KSA.
* Project Title: Spoken Command Control June 2008. The Project was co-funded by Support to Research and Technological Development and Innovation Initiatives& Strategies SRTD in Jordan and European Commission. The project goal was to transfer knowledge into technology by devising speech recognition for producing disability communication assistive devices. For more information, please, visit:<http://www.med-ist.eu/MemberAnalysisCSV1.asp>
* Project Title: RoboViz: Remote Command and Control for Robotic Emergent Behavior – The Next Evolution of Telepresence 2005-2007: my PhD intelligent communication model was further refined through a project funded by Electronic Physical Science Research Council (EPSRC/UK), 2005/2006. This project was jointly run by both De Montfort University and University of Manchester and Ghada Al-Hudhud was a key partner in the working team. This project aimed at testing the feasibility of distantly controlling a group of autonomous robots based in De Montfort University by multicasting destinations location from both command centers in University of Manchester and De Montfort University/ United Kingdom. For more information regarding this project please visit: <http://wiki.rcs.manchester.ac.uk/community/RoboVizCompuSteer>

**Selected Publications**

**Journal Articles**

1. Alshathri DM, Alhumaimeedy AS, Al-Hudhud G, Alsaleh A, Al-Musharaf S, Aljuraiban GS. Weight Management Apps in Saudi Arabia: Evaluation of Features and Quality. JMIR Mhealth Uhealth 2020;8(10):e19844. DOI: [10.2196/19844](https://doi.org/10.2196/19844)
2. AlSaeed D, Bouridane A, Jafri R, Al-Ghreimil N, Al-Baity H. H, Alhudhud G. A Novel Blood Vessel Extraction Using Multiscale Matched Filters with Local Features and Adaptive Thresholding. Biosc.Biotech.Res.Comm. 2020;13(3).
3. Al-Hudhud, Ghada & Alqahtani, Layla & Albaity, Heyam & Alsaeed, Duaa & Al-Turaiki, Isra. (2019). Analyzing Passive BCI Signals to Control Adaptive Automation Devices. Sensors. 19. 3042. 10.3390/s19143042.
4. Alhudhud, Ghada & Al-Baity, Heyam & AlSaeed, Duaa & S. Al-Humaimeedy, Abeer & Al-Turaiki, Isra. (2019). 3D Echolocating System for Visually Impaired Based On Bat SONAR Approach. Bioscience Biotechnology Research Communications. 12. 356-361. 10.21786/bbrc/12.2/19.
5. Alhudhud G, Alsaeed D. H, Al-Baity H, Al-Humaimeedy A. S, Al-Turaiki I. iGuard: Mobile Security Guard System with Infrared Biosensor and Google Glass. Biosc.Biotech.Res.Comm. 2019;12(2).
6. D Al-Alqusair,  I. Al-Turaiki,  A Al-Humaimeedy, and  G Alhudhud. [Measuring Patient Experience In Real Time Using IBeacon Technology](http://bbrc.in/bbrc/measuring-patient-experience-in-real-time-using-ibeacon-technology/).  [Bioscience Biotechnology Research Communications.](file:///E:\Personal\Bioscience%20Biotechnology%20Research%20Communications)  Pp 230-238. 12 (2). 2019. DOI: <http://dx.doi.org/10.21786/bbrc/12.2/4>
7. Al-Hudhud, Ghada. (2018). Statistical Approach for Evaluating Second Brain Applications. Biostatistics and Biometrics Open Access Journal. 5. 10.19080/BBOAJ.2018.05.555661.
8. Al-Hudhud, Ghada. (2017). Affective Quality Assessment for Android Applications Using Q Sensor. Biostatistics and Biometrics Open Access Journal. 2. 10.19080/BBOAJ.2017.02.555576.
9. [Lina Altoaimy](https://www.mdpi.com/search?authors=Lina%20Altoaimy&orcid=0000-0001-8535-4729), [Arwa Alromih](https://www.mdpi.com/search?authors=Arwa%20Alromih&orcid=), [Shiroq Al-Megren](https://www.mdpi.com/search?authors=Shiroq%20Al-Megren&orcid=0000-0001-7131-9535), [Ghada Al-Hudhud](https://www.mdpi.com/search?authors=Ghada%20Al-Hudhud&orcid=), [Heba Kurdi](https://www.mdpi.com/search?authors=Heba%20Kurdi&orcid=0000-0003-4776-2216),  [Kamal Youcef-Toumi](https://www.mdpi.com/search?authors=Kamal%20Youcef-Toumi&orcid=) Context-Aware Gossip-Based Protocol for Internet of Things Applications. *Sensors* 2018, *18*(7), 233; <https://doi.org/10.3390/s18072233>
10. Ghada Al-Hudhud, [Biometrics based Mobile Reminder for Mental Health Disorders](javascript:void(0)), Medical and Clinical Research 2 (4), <http://medclinres.org/online-first.php>, November 2017
11. Ghada Al-Hudhud, [Smart Brain Interaction Systems for Office Access and Control in Smart City Context](javascript:void(0)), Book chapter in “Smart Cities Technologies”, InTechOpen, May 2017.
12. G Alhuhud, W Altamimi. [Quality Evaluation of Mobile Game: Miftah Alfasaha](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=wliibccAAAAJ&citation_for_view=wliibccAAAAJ:_xSYboBqXhAC). ISI Journal of Mobile Information Systems 2016.
13. Ghada AL-Hudhud. Designing e-Coordinator for improved team’s collaboration in graduation projects. International ISI Journal of Computers in Human Behavior. [Vol. 51(2015), Part B](http://www.sciencedirect.com/science/journal/07475632/51/supp/PB), 640–644
14. Ghada AL-Hudhud. Aspect Oriented Design for Team Learning Management System. International ISI Journal of Computers in Human Behavior. [Vol. 51(2015), Part B](http://www.sciencedirect.com/science/journal/07475632/51/supp/PB), 627–631.
15. Ghada Al-Hudhud, Mai AbdulazizAlzamel, EmanAlattas, AreejAlwabil. Using brain signals patterns for biometric identity verification systems. ISI International Journal of Computers in Human Behavior. Vol. 31 (2014) 224–229
16. Ghada Al-Hudhud. Affective command-based control system integrating brain signals in commands control systems. International ISI Journal of Computers in Human Behavior. Vol. 30 (2014) 535–541.
17. G. Al-hudhud. Intelligent System Design Requirements for personalizing e-Learning Systems: Applications of AI to Education. International ISI Journal of Engineering Education. pp 1353–1359Vol 28-6, December 2012.
18. [Al-Hudhud G](https://www.mendeley.com/authors/8671121600). [Swarmming nanorobots of joint intention for Cholesterole free blood arteries](https://www.mendeley.com/stats/articles/2-s2.0-84862305027). Journal of Theoretical and Applied Information Technology, vol. 39, issue 1 (2012)
19. [Al-Hudhud G](https://www.mendeley.com/authors/8671121600). [On swarming medical nanorobots](https://www.mendeley.com/stats/articles/2-s2.0-84859305654) International Journal of Bio-Science and Bio-Technology, vol. 4, issue 1 (2012).
20. G Al-Hudhud. [On swarming medical nanorobots](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=wliibccAAAAJ&citation_for_view=wliibccAAAAJ:zA6iFVUQeVQC). International Journal of Bio-Science and Bio-Technology 4 (1), 75-90.
21. G. Al-Hudhud, M. Ibrahim, and M. Al-Akaidi. Automatic production of quantization matrices based on perceptual modeling of wavelet coefficients for grey scale images. Science Direct; Image and Vision Computing, 28 (2010), pp. 644-653.
22. G.A. Al-Hudhud and M. J. Turner. Digital Removal of Power Frequency Artifacts Using Median Filter in Fourier space. IEEE Transactions on Signal Processing, 12(8), August 2005.
23. G Alhuhud, W Altamimi. [Quality Evaluation of Mobile Game: Miftah Alfasaha](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=wliibccAAAAJ&citation_for_view=wliibccAAAAJ:_xSYboBqXhAC). ISI Journal of Mobile Information Systems 2016.

**Conference Proceedings(IEEE, ACM)**

1. Heba A. Kurdi, Ghada AL-Hudhud, Muneerah Al-Dawod, Wafa Al-Shaikh and Lina Altoaimy. Service-Sharing Approach using a Mutual Exclusion Algorithm for Smart Cashier Systems, 2019 16th IEEE Annual Consumer Communications &Networking Conference (CCNC)
2. Khulood Alghamdi, Shada Alsalamah, Ghada Al-Hudhud, Thamer Nouh, Ibrahim Alyahya Sakher AlQahtani Region-Based Bed Capacity mHealth Application for Emergency Medical Services: Saudi Arabia Case Study. [ThinkMind](http://www.thinkmind.org/) // [eTELEMED 2018, The Tenth International Conference on eHealth, Telemedicine, and Social Medicine](https://www.thinkmind.org/index.php?view=instance&instance=eTELEMED+2018) // View article etelemed\_2018\_10\_10\_48020
3. Ghada Al-Hudhud, [Noha Alrajhi](http://dblp.uni-trier.de/pers/hd/a/Alrajhi:Noha), [Nouf Alonaizy](http://dblp.uni-trier.de/pers/hd/a/Alonaizy:Nouf), [Aysha Al-Mahmoud](http://dblp.uni-trier.de/pers/hd/a/Al=Mahmoud:Aysha), [Latifah Almazrou](http://dblp.uni-trier.de/pers/hd/a/Almazrou:Latifah), [Dalal bin Muribah](http://dblp.uni-trier.de/pers/hd/m/Muribah:Dalal_bin). Brain Signal for Smart Offices. Lecture Notes in Computer Science 9189, 2015: pp 131-140 Elseiver.
4. Ghada Al-Hudhud, EmanAlarfaj, AfnanAlaskar, ShahdAlqahtani, BasmaAlmshari, Hana Almshari. Multimodal Biometric Authentication Web-Based Application. In proceedings of IEEE The 5th National Symposium on Information Technology: Towards New Smart World. Riyadh, Saudi Arabia, Feb 17-19, 2015.
5. Arwa Al-Rubaian, Lama Alssum, Rawan Alharbi, Wafa Alrajhi, Haifa Aldayel, Nora Alangari, Hadeel Al-Negheimish, Aljohara Alfayez, Sara Alwaalan, Rania Aljindan, Ashwag Alshathri, Dania Alomar, Ghada Alhudhud, Areej Al-Wabil. [The Design and Development of Empathetic Serious Games for Dyslexia: BCI Arabic Phonological Processing Training Systems](http://link.springer.com/10.1007/978-3-319-07638-6_11). In proceedings of International Conference of Design, User Experience, and Usability. 2014/6/22, 105-112. Springer International Publishing
6. Abir Benabid, Ghada Al-Hudhud. The Synergy of Engineering and Research Aspects in Software Engineering Education. 27th IEEE Conference on Software Engineering Education and Training. Alpe-adriaUniversitätklagenfurt – Austria.April 23rd - 25th, 2014
7. Al-Hanouf Al-Dayel, Ashwag Al-Swayah, Buthina Al-Dhafian, Ghada Al-Hudhud, Abir Benabid Najjar. Modeling Virtual Graduation Projects Coordinator: From Object Oriented to Agent Oriented. In proceedings of Middle East Simulation & Modeling Conference,  February 3-5, 2014. Arab Open University, Muscat, Oman. IEEE UKRI-SPC.
8. Najwa Al-Ghamdi, Ghada Al-Hudhud, Mai Alzamel, Areej Al-Wabil.Trials and Tribulations of BCI Control Applications. In proceedings of the Science and Information Conference IEEE Explore, London, UK, October 2013
9. Ghada Al-Hudhud,Areej Almutairi, Dulyel Alotaibi, Kholod Alomary, Maha ALQahtani, MaramAlMogheer: Voice Activated Control Systems in Disabilities Applications
10. In proceedings of the Fourth Annual Undergraduate Research Conference an Applied
11. Computing (URC 2012) in18&19 April 2012 .
12. G. Al Hudhud. Optimizing Cognitive Interaction of the Learners with e-Learning Systems. In the proceedings of World Summit of Knowledge Society WSKS2012, Barcelona June 2012.
13. G. Al Hudhud. Evolutionary Step Towards Co-operative Nanorobots: Adaptive Swarming based Self-Controlling and Co-ordinating Communications. Accepted and to be appear In proceedings of The Multiconference of Modeling and Simulation MESM’2010. Eurosis. Alexendria. December 1-3, 2010.S. IEEE UKRI SPC.
14. G. Al Hudhud. Wavelet-based Image Adaptable Compression for Grey Scaled Images. In proceedings of GMAI09 - 4th International Conference on Geometric Modeling & Imaging/ IEEE Computer Society, Barchelona, Spain. July 16-18, 2009.
15. [Al-Hudhud G](https://www.mendeley.com/authors/8671121600). [Adaptation of HVS sensitivity for perceptual modeling of wavelet-based image compression](https://www.mendeley.com/stats/articles/2-s2.0-70350555387). Proceedings - 2009 2nd International Conference in Visualisation, VIZ 2009 (2009)
16. Ghada Al-Hudhud. An Intelligent Agent Approach to Control a Group of Networked Mobile Robots . International Conference on Advanced Computations for Engineering Applications, 2008.
17. G. Al Hudhud. Multiple Virtual Command Centres for Controlling Physically Distant Set of Robots: Next Generation of Telepresence. In proceedings of The European Conference of Modeling and Simulation. La Harve, France. October 26-28, 2008.
18. G. Al Hudhud and Aladdin Ayesh. Real Time Movement Cooredination Technique Based on Flocking Behaviour for Multiple Mobile Robots System. Swarming Intelligence Algorithms and Application Symposium. Aberdeen, United Kingdom. April 1-4, 2008,
19. M.J. Turner, R. Richardson, A. Le Blanc, P. Kuchar, A. Ayesh, and G. Al Hudhud. RoboViz: a Collaborative User and Robot. In CompuSteer Workshop environment network testbed, London, United Kingdom, September 14 2006. Oxford University.

**Books and Book Chapter**

1. Arwa Al-Rubaian, Lama Alssum, Rawan Alharbi, Wafa Alrajhi, Haifa Aldayel, Nora Alangari, Hadeel Al-Negheimish, Aljohara Alfayez, Sara Alwaalan, Rania Aljindan, Ashwag Alshathri, Dania Alomar, Ghada Alhudhud, and Areej Al-Wabil. **Book Chapter:** **The Design and Development of Empathetic Serious Games for Dyslexia: BCI Arabic Phonological Processing Training Systems**. Book: **Design, User Experience, and Usability User Experience Design Practice**. ISBN 978-3-319-07637-9. e-ISBN 978-3-319-07638-6. DOI 10.1007/978-3-319-07638-6 Springer International Publishing Switzerland 2014. Part IV, Lecture Notes in Computer Science 8520, pp. 105–112, 2014
2. Ghada Al-Hudhud, Swarm Robots: Operational Communication Framework with Visualization Tools, Publisher**:**VDM-VERLAG. **ISBN**: 978-3-639-20216-8. <http://www.petlaczasu.com/swarm-robots/b00374173>, Book released on:November 2009.
3. Ghada Al-Hudhud. **Book Chapter, Virtual Reality: A New Era of Simulation and Modeling,** The Handbook of Research on Discrete Event Simulation Environments: Technologies and Applications. **ISBN**:978-1-60566-774-4. **Book released on October** 2009, P**ublisher**: IGI Global InformationScienceReference.  
   <http://www.cybertech-pub.com/reference/details.asp?ID=34661>
4. سعدعبدالعزيزالعاني, غادةعبدالرؤوف الهدهودProgrammingWithMatlabالبرمجةبلغةماتلابPublisher: اثراءللنشروالتوزيع،, Edition: ط .1., <http://www.ithraajo.com/A-Author.php>, Publication Place: عمان, Publication Date: 2008.