

RESEARCH INTERESTS	Image processing, computer vision, pattern recognition and applications with a focus on assistive technologies, biometrics and medical imaging; human-computer interaction
EDUCATION	<p>Ph.D. in Computer Science <i>Department of Computer Science, University of Georgia, Athens, GA, USA</i> Dissertation: Fusion of face and gait for human recognition Graduated: August 2008 – G.P.A.: 4.0/4.0</p> <p>Bachelor of Science in Computer Science <i>Department of Computer Science, University of Georgia, Athens, GA, USA</i> Graduated: December 1999 – Honors: Magna Cum Laude</p> <p>Bachelor of Science in Mathematics and Physics <i>Exam: Islamia University of Bahawalpur, Pakistan</i> <i>Study: Government College for Women, Bahawalpur, Pakistan</i> Graduated: September 1996 – Grade A (2nd highest position in the Pakistan National Board Examination)</p>
PROFESSIONAL EXPERIENCE	<p>Assistant Professor <i>Department of Information Technology, King Saud University, Riyadh, Saudi Arabia (September 2011 – Present)</i></p> <ul style="list-style-type: none"> IT 342 – Fundamentals of Multimedia IT 543 – Usability and User Experience in Information Technology IT 212 – Data Structures IT 325 (previously IT 421) – Operating Systems CAP 490 / IT 443 – Human Computer Interaction (HCI) IT 596 – Graduation Project 1 (M.Sc. program) IT 597 – Graduation Project 2 (M.Sc. program) IT 496 – Graduation Project 1 (B.Sc. program) IT 497 – Graduation Project 2 (B.Sc. program) SWE 600 – M.Sc. Thesis Internal Supervision in External Joint Supervision Program (EJSP) for doctoral students at Northumbria University, Newcastle-Upon-Tyne, U.K. (Fall 2013-Spring 2015) Co-supervision in directed study in Computer Science project at The University of Georgia, Athens, Georgia, U.S.A. (Spring 2016 – Summer 2016) <p>See Also Sections: DEPARTMENTAL/UNIVERSITY ACTIVITIES and SUPERVISION</p> <p>IT Researcher and Consultant <i>Araware LLC, Wilmington, DE, USA (2014 – Present)</i> <i>Araware is an IT research and development organization with emphasis on research collaboration with leading educational institutions around the world. Araware also tries to match OEM's around the world with university based research groups to encourage the collaborative efforts. More info at: www.araware.com.</i></p> <p>Teaching Assistant <i>Department of Computer Science, University of Georgia, Athens, GA, USA (August 2004 – May 2007)</i></p> <ul style="list-style-type: none"> CSCI 4730/6730 (Operating Systems) CSCI 4800/6800 (Human-Computer Interaction) Primary Teaching Assistant for up to four lab sections for CSCI 1100L (Introduction to Personal Computing)

**PROFESSIONAL
EXPERIENCE**
Continued...
Research Assistant

Department of Computer Science, University of Georgia, Athens, GA, USA
(January 2004 – May 2004)

Instructor

Alpina School, Bahawalpur, Pakistan
(September 1995 – December 1996)

Duties included teaching primary school students. Courses included English Language, Urdu Language, Mathematics, Religious Studies and Social Studies

RESEARCH GRANTS

Co-Investigator, Project: **iNaVI: indoor Navigation for the Visually Impaired using User Centered Design**. Project recommended for funding under the Kingdom of Saudi Arabia National Science, Technology and Innovation Plan (May 2015). Principal Investigator: Dr. Abir Benabid Najjar (King Saud University, Saudi Arabia). Co-Investigators: Dr. Eiman Kanjo (Nottingham Trent University, U.K.), Dr. Henda Chorfi (King Saud University, Saudi Arabia), Dr. Manar Hosny (King Saud University, Saudi Arabia).

Research award and grant for publication in ISI-indexed journal

Research Center of the Female Scientific and Medical Colleges,
Deanship of Scientific Research, King Saud University (2017)
(Publication:

Rabia Jafri, "A GPU-Accelerated Real-Time Contextual Awareness Application for the Visually Impaired on Google's Project Tango Device", *The Journal of Supercomputing*, Springer, 2017, Volume 73, Issue 2, pp. 887-899).

Research award for publication in ISI-indexed journal

Research Center of the Female Scientific and Medical Colleges,
Deanship of Scientific Research, King Saud University (2013)
(Publication:

Rabia Jafri, Syed Abid Ali, Hamid R. Arabnia and Shameem Fatima, "Computer Vision-based object recognition for the visually impaired in an indoors environment: a survey," *The Visual Computer*, Springer-Verlag Berlin Heidelberg, 2014. ISSN: 1432-2315. DOI: 10.1007/s00371-013-0886-1, Volume 30, Issue 11, pp. 1197-1222 (Published online: October 15, 2013))

ONGOING RESEARCH**Research collaborator, Ph.D. dissertation, "Person Re-identification Methods"**

Student: Zengyan Wang (Department of Computer Science, University of Georgia, Athens, Georgia, USA)

Major advisor: Prof. Hamid R. Arabnia (Department of Computer Science, University of Georgia, Athens, Georgia)

Co-supervisor, B.Sc. thesis, "Application for detecting and recognizing objects for the visually impaired using the Google Project Tango Tablet Development Kit"

Student: Rodrigo Louzada Campos (Department of Computation and Civil Construction, Federal Technological Center of Minas Gerais, Brazil)

Major supervisor: Odilon Correa da Silva (Department of Computation and Civil Construction, Federal Technological Center of Minas Gerais, Brazil)

Co-supervisors: Syed Abid Ali (Araware LLC, Wilmington, Delaware, USA) and Prof. Hamid R. Arabnia (Department of Computer Science, University of Georgia, Athens, Georgia, USA)

Co-Investigator, Project: iNaVI: indoor Navigation for the Visually Impaired using User

Centered Design. Project recommended for funding under the Kingdom of Saudi Arabia National

ONGOING RESEARCH Science, Technology and Innovation Plan (May 2015).
Continued... Principal Investigator: Dr. Abir Benabid Najjar (Department of Software Engineering, King Saud University, Riyadh, Saudi Arabia).
 Co-Investigators: Dr. Eiman Kanjo (Computing and Technology, Nottingham Trent University, Nottingham, U.K.), Dr. Henda Chorfi (Department of Information Technology, King Saud University, Riyadh, Saudi Arabia), Dr. Manar Hosny (Department of Computer Science, King Saud University, Riyadh, Saudi Arabia).

- PUBLICATIONS**
1. Rabia Jafri, Rodrigo Louzada Campos, Syed Abid Ali and Hamid R. Arabnia, "Visual and Infrared Sensor Data-Based Obstacle Detection for the Visually Impaired Using the Google Project Tango Tablet Development Kit and the Unity Engine", *IEEE Access*, IEEE Computer Society, 2017 (accepted and to appear).
 2. Rabia Jafri, Asmaa Mohammed Aljuhani and Syed Abid Ali, "A Tangible User Interface-Based Application Utilizing 3D-Printed Manipulatives for Teaching Tactual Shape Perception and Spatial Awareness Sub-Concepts to Visually Impaired Children", *International Journal of Child-Computer Interaction*, Elsevier, 2017, Volume 11, pp. 3-11.
 3. Rabia Jafri, "A GPU-Accelerated Real-Time Contextual Awareness Application for the Visually Impaired on Google's Project Tango Device", *The Journal of Supercomputing*, Springer, 2017, Volume 73, Issue 2, pp. 887-899.
 4. Rabia Jafri, Rodrigo Louzada Campos, Syed Abid Ali and Hamid R. Arabnia, "Utilizing the Google Project Tango Tablet Development Kit and the Unity Engine for Image and Infrared Data-Based Obstacle Detection for the Visually Impaired" (Poster paper), *Proceedings of the 2016 International Conference on Health Informatics and Medical Systems (HIMS'15)*, July 27-30, Las Vegas, Nevada, USA, pp. 163-164, 2016.
 5. Rabia Jafri and Marwa Mahmoud Khan, "Obstacle Detection and Avoidance for the Visually Impaired in Indoors Environments Using Google's Project Tango Device," in *Computers Helping People with Special Needs: 15th International Conference, ICCHP 2016, Linz, Austria, July 13-15, 2016*, Springer International Publishing, *Lecture Notes in Computer Science (LNCS)*, Volume 9759, pp. 179-185, 2016.
 6. Asma Alhussayen, Rabia Jafri and Abir Benabid, "Requirements' Elicitation for a Tangible Interface-Based Educational Application for Visually Impaired Children," in *Advances in Ergonomics Modeling, Usability & Special Populations: Proceedings of the AHFE 2016 International Conference on Ergonomics Modeling, Usability & Special Populations, July 27-31, 2016, Walt Disney World®, Florida, USA*, M. Soares, C. Falcão, and Z. T. Ahram, Eds., ed Cham: Springer International Publishing, 2017, pp. 583-596.
 7. Arwa Saad Alrazooq, Bayan Abdulmonem Boreggah, Laila Ayidh Alqahtani and Rabia Jafri, "Usability Evaluation of a Leap Motion-Based Educational Application," in *Advances in Human Factors, Business Management, Training and Education: Proceedings of the AHFE 2016 International Conference on Human Factors, Business Management and Society, July 27-31, 2016, Walt Disney World®, Florida, USA*, I. J. Kantola, T. Barath, S. Nazir, and T. Andre, Eds., ed Cham: Springer International Publishing, 2017, pp. 171-185.
 8. Rabia Jafri and Syed Abid Ali, "Utilizing 3D Printing to Assist the Blind", *Proceedings of the 2015 International Conference on Health Informatics and Medical Systems (HIMS'15)*, July 27-30, Las Vegas, Nevada, USA, pp. 55-61, 2015.
 9. Rabia Jafri, Asmaa Mohammed Aljuhani and Syed Abid Ali, "A Tangible Interface-based

PUBLICATIONS

Continued...

- Application for Teaching Tactual Shape Perception and Spatial Awareness Sub-Concepts to Visually Impaired Children", *Proceedings of the 6th International Conference on Applied Human Factors and Ergonomics (AHFE 2015)*, July 26-30, Las Vegas, Nevada, USA, Elsevier ScienceDirect Procedia, Volume 3, pp. 5562-5569, 2015.
10. Rabia Jafri, Syed Abid Ali, Hamid R. Arabnia and Shameem Fatima, "Computer Vision-based object recognition for the visually impaired in an indoors environment: a survey," *The Visual Computer*, Springer-Verlag Berlin Heidelberg, 2014. ISSN: 1432-2315. DOI: 10.1007/s00371-013-0886-1, Volume 30, Issue 11, pp. 1197-1222 (Published online: October 15, 2013).
 11. Rabia Jafri and Syed Abid Ali, "Exploring the Potential of Eyewear-Based Wearable Display Devices for Use by the Visually Impaired", *Proceedings of the 3rd International Conference on User Science and Engineering (i-USEr 2014)*, September 2-5, Shah Alam, Malaysia, IEEE Computer Society, pp. 119-124, 2014.
 12. Rabia Jafri, "Electronic Braille Blocks: A Tangible Interface-based Application for Teaching Braille Letter Recognition to Very Young Blind Children", *Proceedings of the 14th International Conference on Computers Helping People with Special Needs (ICCHP 2014)*, July 9-11, Paris, France, Springer International Publishing, *Lecture Notes in Computer Science (LNCS)*, Volume 8548, pp. 551-558, 2014.
 13. Rabia Jafri and Syed Abid Ali, "A Multimodal Tablet-based Application for the Visually Impaired for Detecting and Recognizing Objects in a Home Environment", *Proceedings of the 14th International Conference on Computers Helping People with Special Needs (ICCHP 2014)*, July 9-11, Paris, France, Springer International Publishing, *Lecture Notes in Computer Science (LNCS)*, Volume 8547, pp. 356-359, 2014.
 14. Rabia Jafri and Syed Abid Ali, "A GPS-based Personalized Pedestrian Route Recording Smartphone Application for the Blind", *Proceedings of the 16th International Conference on Human-Computer Interaction (HCI 2014) – Posters' Extended Abstracts*, June 22-27, Crete, Greece, Springer International Publishing, *Communications in Computer and Information Science (CCIS)*, Volume 435, pp. 232-237, 2014.
 15. Rabia Jafri, Amal Saad Alkhunji, Ghada Khaled Alhader, Hanan Rabeiah Alrabeiah, Noura Abdullah Alhammad, Sara Khader Alzahrani, "Smart Travel Planner: A mashup of travel-related web services," *Proceedings of The 2013 International Conference on Current Trends in Information Technology (CTIT 2013)*, December 11-12, Dubai, UAE, (Technical co-sponsors: IEEE Computer Society, ACM, IBM, SAP, Cisco), IEEE Computer Society, pp. 181-185, 2013.
 16. Rabia Jafri, Syed Abid Ali and Hamid R. Arabnia, "Computer Vision-based object recognition for the visually impaired using visual tags," *Proceedings of the 2013 International Conference on Image Processing, Computer Vision, and Pattern Recognition (IPCV '13)*, July 22-25, Las Vegas, Nevada, USA, CSREA Press, ISBN: 1-60132-253-4, vol. 2, pp. 400-406, 2013.
 17. Rabia Jafri, Syed Abid Ali and Hamid R. Arabnia, "Face recognition for the visually impaired," *Proceedings of the 2013 International Conference on Information and Knowledge Engineering (IKE '13)*, July 22-25, Las Vegas, Nevada, USA, CSREA Press, ISBN: 1-60132-251-8, pp. 153-159, 2013.
 18. Rabia Jafri and Hamid R. Arabnia, "A Survey of Face Recognition Techniques," *Journal of Information Processing Systems*, Volume 5, Issue 2, pp. 41-68, 2009.
 19. Rabia Jafri, Hamid R. Arabnia and K. J. Simpson, "An Integrated Face-Gait System for

PUBLICATIONS

Continued...

- Automatic Recognition of Humans," *Proceedings of the 2008 International Conference on Security and Management (SAM'08)*, June 14-17, Las Vegas, Nevada, USA, (Academic Co-Sponsors: Research Labs at Harvard, Georgia Institute of Technology, Purdue, University of Texas at Austin, Texas, ...), pp. 571-581, 2008.
20. Rabia Jafri and Hamid R. Arabnia, "Fusion of Face and Gait for Automatic Human Recognition," *Proceedings of the 5th International Conference on Information Technology - New Generations (ITNG 2008: Data Mining Track)*, April 7-9, Las Vegas, Nevada, USA; IEEE Computer Society, pp. 167-173, 2008.
 21. Rabia Jafri and Hamid R. Arabnia, "A Multi-Resolution Hierarchical Approach for Face Recognition," *Proceedings of the 2007 International Conference on Image Information and Knowledge Engineering (IKE'07)*, June 25-28, Las Vegas, Nevada, USA, (Academic Co-Sponsors: Research Labs at MIT, Harvard, Purdue, University of Texas at Austin, Texas, ...), pp. 231-239, 2007.
 22. Rabia Jafri and Hamid R. Arabnia, "A Multi-Level Component-Based Approach for Face Recognition," *Proceedings of the 2007 International Conference on Image Processing, Computer Vision, and Pattern Recognition (ICCV'07)*, June 25-28, Las Vegas, USA, (Academic Co-Sponsors: Research Labs at MIT, Harvard, Purdue, University of Texas at Austin, Texas, ...), pp. 30-39, 2007.
 23. Rabia Jafri and Hamid R. Arabnia, "PCA-Based Methods for Face Recognition," *Proceedings of the 2007 International Conference on Security and Management (SAM'07)*, June 25-28, Las Vegas, USA, (Academic Co-Sponsors: Research Labs at MIT, Harvard, Purdue, University of Texas at Austin, Texas, ...), pp. 534-541, 2007.
 24. Rabia Jafri and Hamid R. Arabnia, "A Survey of Component-Based Face Recognition Approaches," *Proceedings of the 2007 International Conference on Artificial Intelligence (ICAI'07)*, June 25-28, Las Vegas, USA, (Academic Co-Sponsors: Research Labs at MIT, Harvard, Purdue, University of Texas at Austin, Texas, ...), pp. 103-113, 2007.
 25. Rabia Jafri and Hamid R. Arabnia, "Analysis of Subspace-Based Face Recognition Techniques under Changes in Imaging Factors," *Proceedings of the 4th International Conference on Information Technology - New Generations (ITNG 2007; Data Mining Track)*, April 2-4, Las Vegas, USA; IEEE Computer Society, pp. 406-413, 2007.
 26. Gregory Silver, Angela Maduko, Rabia Jafri, John A. Miller and Amit P. Sheth, "Modeling and Simulation of Quality of Service for Composite Web Services," *Proceedings of the 7th World Multiconference on Systemics, Cybernetics and Informatics (SCI'03)*, July 2003, Orlando, Florida, USA, Volume 1, pp. 420-425, 2003.

PRESENTATIONS***Utilizing 3D Printing to Assist the Blind***

Presented, along with Syed Abid Ali, at The 2015 International Conference on Health Informatics and Medical Systems (HIMS'15)
Las Vegas, USA, (July 29, 2015)

A Tangible Interface-based Application for Teaching Tactual Shape Perception and Spatial Awareness Sub-Concepts to Visually Impaired Children

Presented at The 6th International Conference on Applied Human Factors and Ergonomics (AHFE 2015)
Las Vegas, Nevada, USA (July 29, 2015)

PRESENTATIONS*Continued...****iNaVi: Indoor Navigation for the Visually Impaired***

Presented, along with other project collaborators, as part of the seminar series of The Software and Knowledge Engineering Research Group, King Saud University
 Riyadh, Saudi Arabia (January 27, 2015)

A GPS-based Personalized Pedestrian Route Recording Smartphone Application for the Blind

Presented as part of the seminar series of The Software and Knowledge Engineering Research Group, King Saud University
 Riyadh, Saudi Arabia (October 28, 2014)

Google Glass Demonstration

Journal Club, Software and Knowledge Engineering Research Group, King Saud University
 Riyadh, Saudi Arabia (September 16, 2014)

Electronic Braille Blocks: A Tangible Interface-based Application for Teaching Braille Letter Recognition to Very Young Blind Children

Presented at The 14th International Conference on Computers Helping People with Special Needs (ICCHP 2014)
 Paris, France (July 11, 2014)

A Multimodal Tablet-based Application for the Visually Impaired for Detecting and Recognizing Objects in a Home Environment

Presented at The 14th International Conference on Computers Helping People with Special Needs (ICCHP 2014)
 Paris, France (July 10, 2014)

Computer vision-based object recognition for the visually impaired in an indoors environment: a survey

Presented as part of the seminar series of The Software and Knowledge Engineering Research Group, King Saud University
 Riyadh, Saudi Arabia (May 20, 2014)

Computer Vision-based Object Recognition for the Visually Impaired Using Visual Tags

Presented at The 2013 International Conference on Image Processing, Computer Vision, and Pattern Recognition (IPCV '13)
 Las Vegas, NV, USA (July 2013)

Publishing and Research Collaboration

A presentation on publishing and research collaboration to graduate and post-graduate students and faculty
 The Islamia University of Bahawalpur, Bahawalpur, Pakistan (January 2013)

Analysis of Subspace-Based Face Recognition Techniques under Changes in Imaging Factors

Presented at The 4th International Conference on Information Technology - New Generations (ITNG 2007; Data Mining Track)
 Las Vegas, NV, USA (April 2007)

An Introduction to Face Recognition

Guest Lecturer (CSCI 8810 – Advanced Image Processing and Computer Graphics)
 Department of Computer Science, University of Georgia, Athens, GA, USA (March 2005)

PRESENTATIONS

Continued...

The Anatomy of a Context-Aware Application

Random Topics in Systems (RATS) seminar

*Department of Computer Science, University of Georgia, Athens, GA, USA (March 2001)*PROFESSIONAL
ACTIVITIES

- **Member, KACST ACM SIGCHI Chapter**
Local chapter of ACM SIGCHI (Special Interest Group on Computer-Human Interaction) (May 2017 – present)
- **Member, Arab Women in Computing (ArabWIC)**
Regional chapter of the Anita Borg Institute for Women and Technology
(November 2015 – present)
- **Member, Editorial Board of *The Journal of Supercomputing*** (ISI-indexed journal published by Springer) (December 2013 – present)
- **Member, Bioinformatics Research Group (BIOING)**
King Saud University, Riyadh, Saudi Arabia (October 2012 – present)
- **Member, Software and Knowledge Engineering Research Group (SKERG)**
King Saud University, Riyadh, Saudi Arabia (October 2012 – present)
- **Member, Ph.D. advisory committee** for Syed Ali Reza Khatamian, Ph.D. candidate at the Department of Computer Science, University of Georgia, Athens, GA, USA (Fall 2015 – Summer 2016)
- **Reviewer, *IEEE Transactions on Human-Machine Systems*** (ISI-indexed journal published by IEEE), December 2015
- **Reviewer, *Computer Vision and Image Understanding*** (ISI-indexed journal published by Elsevier), July 2015
- **Reviewer, poster competition for *the Second Bioinformatics Scientific Meeting in KSU (BioSM-KSU)*** organized by the Bioinformatics Research Group at King Saud University, Riyadh, Saudi Arabia on May 4-5, 2015
- **Reviewer, *The Journal of Supercomputing*** (ISI-indexed journal published by Springer), March 2015
- **Finance officer, *Software and Knowledge Engineering Research Group*, King Saud University, Riyadh, Saudi Arabia** (2014-2015)
- **Reviewer, *The 2nd Workshop on Assistive Computer Vision and Robotics (ACVR 2014)***, in conjunction with *The European Conference on Computer Vision (ECCV 2014)*, Zurich, Switzerland, September 12, 2014
- **Reviewer, poster competition for the *First Bioinformatics Scientific Meeting in KSU (BioSM-KSU)*** organized by the Bioinformatics Research Group at King Saud University, Riyadh, Saudi Arabia on May 4, 2014
- **Reviewer, *The Sixth Annual Undergraduate Research Conference on Applied Computing (URC 2014)***, Zayed University, Dubai, UAE, April 30-May 1, 2014
- **Member, The Technical Program Committee for *The Sixth Annual Undergraduate Research***

**PROFESSIONAL
ACTIVITIES**
Continued...

Conference on Applied Computing (URC 2014), Zayed University, Dubai, UAE, April 30-May 1, 2014

- **Member**, The International Program Committee for **The 2014 International Conference on Computational Science and Computational Intelligence (CSCI '14)**, Las Vegas, Nevada, USA, March 10-13, 2014
- **Chair of Session: Face, gaze, expression recognition, detection, tracking, and other related methods** at **The 2013 International Conference on Image Processing, Computer Vision, and Pattern Recognition (IPCV '13)**, Las Vegas, Nevada, USA, July 22-25, 2013
- **Coordinator**, **The First Information Technology Research Forum** held by the Information Technology Department, King Saud University, Riyadh, Saudi Arabia on May 14, 2013
- **Reviewer**, posters for **The First Graduate Students Annual Scientific Meeting (GSASM 2013)** organized by the Deanship of Graduate Studies, King Saud University, Riyadh, Saudi Arabia during April 24-25, 2013
- **Reviewer**, **The Fifth Annual Undergraduate Research Conference on Applied Computing (URC 2013)**, Zayed University, Dubai, UAE, May 1-2, 2013
- **Member**, the organization committee for the **"I can! Apply my Computing background in Bioinformatics" Workshop** held by the Bioinformatics Research Group at King Saud University, Riyadh, Saudi Arabia on April 6, 2013

**DEPARTMENTAL
/UNIVERSITY
ACTIVITIES**

- Member, Examination committees for Information Technology Department's Graduation Project 1 and 2 (2011-present)
- Member, Information Technology Department's Graduation Project 2 Committee (August 2014 – present)
- Head, Information Technology Department's Graduation Project 2 Committee (August 2014 – January 2017)
- Head, Information Technology Department's Project Advisory Committee (August 2014 – January 2017)
- Academic advisor for Information Technology Department's Masters students (August 2014 – present)
- Head, Information Technology Department's Graduation Project Committee (Spring 2016)
- Course coordinator for IT 342: Fundamentals of Multimedia (Fall 2016, Spring 2017, Fall 2017)
- Course coordinator for IT 497: Graduation Project 2 (Fall 2014, Spring 2015, Fall 2015, Spring 2016, Fall 2016)
- Course coordinator for IT 543: Usability and User Experience in Information Technology (Fall 2014, Fall 2015, Spring 2016)
- Course coordinator for IT 421/IT 325: Operating Systems (Spring 2012, Spring 2013, Fall 2013, Spring 2014, Spring 2015)

**DEPARTMENTAL
/UNIVERSITY
ACTIVITIES***Continued...*

- Course coordinator for IT 443: Human Computer Interaction (Fall 2012, Spring 2015, Spring 2016)
- Course coordinator for IT 212: Data Structures (Fall 2014, Fall 2016, Spring 2017)
- Member, Curriculum Review and Development Committee (CRDC) group for proposing courses for the IoT and Networks track (Spring 2017)
- Member, Information Technology Department's National Commission for Academic Accreditation and Assessment (NCAAA) committee (Fall 2015, Spring 2016)
- Member, Information Technology Department's thesis review committees for promotion requests from lecturer to assistant professor (Spring 2014, Spring 2016, Spring 2017)
- Member, Information Technology Department's Masters Program Committee (Fall 2014, Spring 2015)
- Member, committee for coordinating the Information Technology Department's nomination of projects for the annual College of Computer and Information Sciences' graduation projects' competition (April–May 2015, April-May 2016)
- Member, proposal review committee for Master of Science in Biomedical Information Technology Program (May 2015)
- Member, Information Technology Department's website (English version) update committee (Spring 2014)
- Member, committee for recommending scientific organizations to the College of Computer and Information Sciences to aid in approving conference attendance requests (Fall 2013)
- Member, benchmarks' review committee for the proposed Masters program in Information Technology (Spring 2013)
- Coordinator, The First Information Technology Research Forum held by the Information Technology Department, King Saud University, Riyadh, Saudi Arabia (May 14, 2013)
- Member, committee for formulating rubrics for the evaluation criteria for Information Technology Graduation Project 1 and Graduation Project 2 (Spring 2012)

SUPERVISION**Ph.D. Thesis:**

- Duaa AlSaeed, "Statistical Approaches of Image Segmentation and Analysis". Ph.D. in Computer Science, Northumbria University, Newcastle-Upon-Tyne, U.K. (graduated Spring 2015)
 - Internal supervisor from King Saud University under the External Joint Supervision Program: Fall 2013-Spring 2015
 - External supervisor: Prof. Ahmed Bouridane, Department of Computer Science and Digital Technologies, Northumbria University, Newcastle-Upon-Tyne, U.K.

M.Sc. Thesis:

- Shaden Alzeer, "User Centered Interaction Design of Indoor Navigation Applications for Visually Impaired People". M.Sc. in Software Engineering, King Saud University, Riyadh, Saudi Arabia (Fall 2015 – Summer 2017)
 - Co-supervised with: Dr. Abir Benabid Najjar, Department of Software

SUPERVISION*Continued...*

Engineering, King Saud University, Saudi Arabia

- Asma Abdulrahman Alhussayen, "User experience and Usability Evaluation of Tangible Interface-based Applications for Visually Impaired Children". M.Sc. in Software Engineering, King Saud University, Riyadh, Saudi Arabia (Fall 2015 – Spring 2017)
 - Co-supervised with: Dr. Abir Benabid Najjar, Department of Software Engineering, King Saud University, Saudi Arabia

M.Sc. Project:

- Marwa Mahmoud Khan, "Obstacle detection for the visually impaired during navigation in indoor environments". M.Sc. in Information Technology, King Saud University, Riyadh, Saudi Arabia (Spring 2016 – Fall 2016)

Directed Study in Computer Science Project:

- Rodrigo Louzada Campos, "Utilizing the Google Project Tango Tablet Development Kit and the Unity Engine for Image and Infrared Data-Based Obstacle Detection for the Visually Impaired". CSCI 4950: Directed Study in Computer Science, offered as part of the B.S. in Computer Science program at The University of Georgia, Athens, Georgia, U.S.A. (Spring 2016 – Summer 2016)
 - Project co-supervised with Prof. Hamid R. Arabnia, Department of Computer Science, University of Georgia, Athens, Georgia, U.S.A. and Syed Abid Ali, Araware LLC, Wilmington, Delaware, U.S.A.

B.Sc. Graduation Projects:

- Dalia ALHejji, Sara Alareefi, Nada Alzahrani, Modi Aljedaie, Ohoud Alqrnai, "Academic Advising System". B.Sc. in Information Technology, King Saud University, Riyadh, Saudi Arabia (Spring 2015 – Fall 2015).
- Ghadah Al-Shameri, Norah Saad Al-Omair, Heba Al-Omair, Abeer Al-Shameri, Amal Al-Shaibani, "IT learning portal and services catalog". B.Sc. in Information Technology, King Saud University, Riyadh, Saudi Arabia (Spring 2014 – Fall 2014).
 - Project presentation awarded 2nd place in the 2nd IT Research Day at King Saud University, Saudi Arabia on April 23, 2014.
- Amal Alassaf, Sadeem Bukhari, Noura Albougami, Noura Alshamri, "Mayfly: A social networking iPhone application for Saudi Arabia focusing on events". B.Sc. in Information Technology, King Saud University, Riyadh, Saudi Arabia (Fall 2013 – Spring 2014).
 - Project presentation awarded 2nd place in the 2nd IT Research Day at King Saud University, Saudi Arabia on April 23, 2014.
 - Project abstract accepted for poster presentation in the Sixth Annual Undergraduate Research Conference on Applied Computing (URC 2014), Zayed University, Dubai, UAE, April 30-May 1, 2014.
- Sarah Makhashen, Bushra Bagazi, Asyah Salem, Kholod Al-Kathiry, Safa Abu Alasrar, "Mobile Vision: mobile phone-based object recognition for the visually impaired". B.Sc. in Information Technology, King Saud University, Riyadh, Saudi Arabia (Spring 2013 – Fall 2013).
 - Project abstract accepted for poster presentation in the Sixth Annual Undergraduate Research Conference on Applied Computing (URC 2014), Zayed University, Dubai, UAE, April 30-May 1, 2014.
- Abeer Al-Shehri, Afnan Al-Hano, Alaa Al-Barrak, Hind Al-Mahmoud, and Khazma Al-Shaharani, "Hotel website creation, management and reservation system". B.Sc. in

SUPERVISION*Continued...*

Information Technology, King Saud University, Riyadh, Saudi Arabia (Fall 2012 – Spring 2013).

- Project abstract accepted for poster presentation in the Fifth Annual Undergraduate Research Conference on Applied Computing (URC 2013), Zayed University, Dubai, UAE, May 1-2, 2013.
- Amal Saad Alkhunji, Ghada Khaled Alhader, Hanan Rabiea Alrabiea, Noura Abdullah Alhammad, Sara Khader Alzahrani, "Smart Travel Planner". B.Sc. in Information Technology, King Saud University, Riyadh, Saudi Arabia (Spring 2012 – Fall 2012).
 - Project abstract accepted for oral presentation in the Fifth Annual Undergraduate Research Conference on Applied Computing (URC 2013), Zayed University, Dubai, UAE, May 1-2, 2013.
 - Conference paper based on this project: Rabia Jafri, Amal Saad Alkhunji, Ghada Khaled Alhader, Hanan Rabeiah Alrabeiah, Noura Abdullah Alhammad, Sara Khader Alzahrani, "Smart Travel Planner: A mashup of travel-related web services," *Proceedings of The 2013 International Conference on Current Trends in Information Technology (CTIT 2013)*, December 11-12, Dubai, UAE, (Technical co-sponsors: IEEE Computer Society, ACM, IBM, SAP, Cisco), IEEE Computer Society, pp. 181-185, 2013.
- Abrar M. Al-Moajel, Ghadah A. Al-Tassan, Adhwa N. Al-Kathiry, "FRAT: Face Recognition for Automated Tagging". B.Sc. in Information Technology, King Saud University, Riyadh, Saudi Arabia (Fall 2011 – Spring 2012).
 - Project abstract accepted for oral presentation in the Fourth Annual Undergraduate Research Conference on Applied Computing (URC 2012), Zayed University, Dubai, UAE, April 18-19, 2012.
- Nada Al-Rashoodi, Noha Al-Modkhali, Alaa Al-Omran, Monirah Al-Swaih, Jameelah Al-Otibi, "Automatic log in/ log out based on face recognition". B.Sc. in Information Technology, King Saud University, Riyadh, Saudi Arabia (Fall 2011 – Spring 2012).

PROFESSIONAL DEVELOPMENT

- "OpenCV workshop", Software and Knowledge Engineering and Research Group, King Saud University, Riyadh, Saudi Arabia, April 12, 2016
- "Human Motion Tracking and Recognition with Microsoft Kinect" tutorial, The 2015 World Congress in Computer Science, Computer Engineering, and Applied Computing, Las Vegas, Nevada, USA, July 28, 2015
- "Morae Training Workshop", Software and Knowledge Engineering and Research Group, King Saud University, Riyadh, Saudi Arabia, November 5, 2014
- "Morae tutorial", Usability Lab, Graduate School of Library and Information Science, Simmons College, Boston, Massachusetts, July 29, 2014
- "Smart Classrooms" Workshop, Deanship of E-Learning, King Saud University, Riyadh, Saudi Arabia, January 28, 2014
- "Genome Rearrangement Workshop", Bioinformatics Research Group, King Saud University, Riyadh, Saudi Arabia, November 3, 2013
- "MATLAB and Image Processing Workshop", Software and Knowledge Engineering and Research Group, King Saud University, Riyadh, Saudi Arabia, October 29, 2013

**PROFESSIONAL
DEVELOPMENT**
Continued...

- “I can! Apply my Computing background in Bioinformatics Workshop”, Bioinformatics Research Group, King Saud University, Riyadh, Saudi Arabia, April 6, 2013
- “Hands-on Experience in Bioinformatics Workshop”, Bioinformatics Research Group, King Saud University, Riyadh, Saudi Arabia, February 23 and March 2, 2013
- “The 2nd Annual CCIS Teaching Best Practices Workshop”, King Saud University, Riyadh, Saudi Arabia, February 6, 2013
- “The Brain-Computer Interaction Workshop”, Software and Knowledge Engineering and Research Group, King Saud University, Riyadh, Saudi Arabia, January 13, 2013
- Workshop on KSU Mentoring Program, King Saud University, Riyadh, Saudi Arabia, October 12, 2012
- “GRSC 7770: Seminar for Graduate Teaching Assistants”, *Graduate School, University of Georgia, Athens, GA, USA. Fall 2005*

**AWARDS
& HONORS**
Doctoral Dissertation Completion Award

Graduate School
University of Georgia, Athens, GA, USA (2007 – 2008)

Outstanding Graduate Teaching Assistant Award

Office of the Senior Vice President for Academic Affairs and Provost
University of Georgia, Athens, GA, USA (2007)

Graduated Magna Cum Laude

Bachelor of Science in Computer Science
University of Georgia, Athens, GA, USA (December 1999)

Presidential Scholar

Bachelor of Science in Computer Science
University of Georgia, Athens, GA, USA (Spring 1999 and Fall 1999)

Dean's List

Bachelor of Science in Computer Science
University of Georgia, Athens, GA, USA (Fall 1998)

2nd highest position in the National Board Examination

Bachelor of Science in Mathematics and Physics
Government College for Women, Bahawalpur, Pakistan (September 1995)

2nd highest position in the National Board Examination

F. Sc. Intermediate Examination (Pre-Engineering)
Government College for Women, Bahawalpur, Pakistan (September 1993)

National Scholarship for the Bachelor of Science Examination

Government of Pakistan
Bahawalpur, Pakistan (1995)

National Scholarship for the F.Sc. Intermediate Examination

Government of Pakistan
Bahawalpur, Pakistan (1993)

**AWARDS
& HONORS**
Continued...

National Scholarship for the Secondary School Certificate Examination
Government of Pakistan
Bahawalpur, Pakistan (1991)

LANGUAGES

Fluent in English and Urdu

REFERENCES

Available upon request