

Dr. Amr Almaddah

Electronics & Communication, Department of Electrical and Computer Engineering, King Abdulaziz University

Education

<i>Degree</i>	<i>Field of Study</i>	<i>Institution</i>	<i>Year</i>
Ph.D.	Intelligent Systems Innovation	Osaka University, Japan	2013
MS	Intelligent Systems Innovation	Osaka University, Japan	2010
BS	Electronics & Communication	King Abdulaziz University	2007

Academic Experience

<i>From-To</i>	<i>Institution</i>	<i>Rank</i>	<i>Title</i>	<i>Full or Part Time</i>
2014 - Now	King Abdulaziz University	Teaching Staff	Assistant Professor	Full
2012 - 2013	Osaka University	Research Assistant	NA	Part

Non-Academic Experience (Including Consultations)

- **Chief Strategy and Planning Officer**, Ministry of Hajj and Umrah, 2019 – Now
- **Advisor to H.E. Minister of Hajj and Umrah**, 2018 – Now
- **Director of Projects Management**, Ministry of Hajj and Umrah, 2018 – 2019
- **Chief Operating Officer (COO)**, Manga Productions, MiSK Foundation, 2017 – 2018
- **Consultant**, Taqnia Robotics, King Abdulaziz City for Science and Technology, 2016 – 2018
- **Acting Member** of the Saudi National Committee for Security Robots, MOI & KACST, 2015 – 2018
- **Deputy Director**, Center of Excellence for Industrial Design & Production, KAU, 2015 – 2018
- **Chief Operating Officer (COO)**, Arab innovative Arts and Technologies (ARiNAT), 2016 – 2017
- **Consultant**, Saudi Research and Marketing Group (SRMG), 2016 – 2017
- **Director**, KAU Business Incubators, KAU, Jeddah, 2014 – 2016
- **Consultant** to the University V.P. for Business and Cognitive Creativity, KAU, Jeddah, 2014 – 2016
- **Research Associate**, King Abdullah Petroleum Studies and Research Center, Riyadh, 2013 – 2014
- **Project Researcher** in Face Recognition, Ayonix, Osaka, 2010 – 2013
- **Visiting Researcher**, Institute of Systems and Robotics – Coimbra University, Portugal, 2013
- **Western Area Premises Engineer**, Saudi Hollandi Bank, Jeddah, 2007 – 2008

Funded Research Projects and Patents From The Last Five Years

- **MR400 Search and Rescue Robotic Vehicle**, King Abdulziz City for Science and Technology and Ministry of Interior, 2016.

Honors and Awards

- Award of research excellence for the year 2013, awarded by the Japanese Prime Minister
- Completion certificate for FIAS winter-school on Intrinsic Motivations, Frankfurt, Germany
- Award of research excellence for the year 2012, awarded in the Japanese parliament
- Gratitude and appreciation plaques and certificates (*in Arabic), King Abdulaziz University
- Appreciation Certificates (*in Arabic), King Abdulaziz Foundation for the Gifted
- Appreciation Certificates (*in Arabic), TAID Center for Scientific Innovation
- Qualification and Participation Certificates, Asia Pacific Broadcast Union, Japan

Principal Publications/Presentations from the Past Five Years

- Tauseef Ahmad and Amr Almaddah, ‘‘Detection and measurement of displacement and velocity of single moving object in a stationary background’’, International Conference on Engineering Science and Technology (ICEST – 16), 30-31 August 2016 in Sir Syed University of Engineering & Technology, Pakistan.
- Tauseef Ahmad and Amr Almaddah, ‘‘Detection and measurement of displacement and velocity of single moving object in a stationary background’’, Sir Syed University Research Journal,
- Tauseef Ahmad, Amr Almaddah, ‘‘Detection of continuous and thin edges of noisy images by new kernel approach’’, Preceding IEEE IECON conference, University of British Columbia, 1-3 November 2018.
- Almaddah, A.; Vural, S; Mae, Y.; Ohara, K.; Arai, T.; "Face Relighting from a Single Image Using Discriminative 2D Spherical Spaces" Journal of Machine Vision and Applications, (DOI) 10.1007/s00138-013-0584-z, 2013.
- Almaddah, A.; Vural, S; Mae, Y.; Ohara, K.; Arai, T.; "Illumination Invariant Face Relighting and Recognition using 2D Spherical Space" Journal of Robotics and Mechatronics, Vol.25, No.5, 2013.
- Almaddah, A.; Mae, Y.; Ohara, K.; Arai, T.; "Illumination Invariant Objects Segmentation and Classification" SICE Journal of Control, Measurement, and System Integration, 2013.
- Almaddah, A.; "Machine Visual Perception in Cluttered Environments", PhD Thesis, Osaka University, Sept 2013.
- Almaddah, A.; Arai, T.; "2D Spherical Spaces for Objects Recognition under Harsh Lighting Conditions" IEEE International Symposium on Robot and Human Interactive Communication (ROMAN), Sep. 2012, Paris, France
- Almaddah, A.; Vural, S; Mae, Y.; Ohara, K.; Arai, T.; " 2D Spherical Spaces for Face Relighting under Harsh Illumination" International Conference on Signal and Image Processing 2012 (ICSIP), 26-27 Sep. 2012, Rome, Italy
- Almaddah, A.; Mae, Y.; Ohara, K.; Takubo, T.; Arai, T.; "Visual and Physical Segmentation of Novel Objects" IEEE International Conference on Intelligent Robots and Systems 2011 (IROS), 25 Sep. 2011, San Francisco, USA
- Almaddah, A.; Mae, Y.; Ohara, K.; Takubo, T.; Arai, T.; "Unknown objects segmentation and material classification for separation," IEEE International Conference on Robotics and Biomimetics 2010 (ROBIO), pp.1457-1462, 14-18 Dec. 2010, Tianjin, China
- Almaddah, A.; "Multi-Sensor Guided Robot Manipulation", Master thesis, Osaka University, 2010, Osaka
- Almaddah, A.; Mae, Y.; Ohara, K.; Takubo, T.; Arai, T.; "Object Pose Estimation by Multi Surfaces SIFT Matching for Manipulation" the 6th International Conference on Ubiquitous Robots and Ambient Intelligence, 28-31 October 2009, Gwangju, Korea
- Almaddah, A.; Mae, Y.; Ohara, K.; Takubo, T.; Arai, T.; "Multi-Surfaces SIFT Matching by Stereo Vision" the 27th Annual Conference of the Robotics society of Japan (RSJ), 13-14 Sept. 2009, Yokohama, Japan

Recent Professional Development Activities (*Workshops, Trainings etc.*)

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| ○ Industrial Automation | ○ AutoCAD | ○ Cygwin | ○ Photoshop |
| ○ Movies & Video Production | ○ Basic Stamp | ○ MS Visio | ○ Matlab |
| ○ Video Games Development | ○ C and C++ | ○ 3D Studio | ○ Sound Forge |
| ○ 3D Animation | ○ SCADA | ○ RT Middleware | ○ Strategic Planning |
| ○ Micro Controller (PIC) | ○ Matlab Programing | ○ Big Data | |