Applicant Application Review

Full Name: Haitham Elhussieny Abdulaziz Hussien

Personal Informations

Name:	Haitham Elhussieny Abdulaziz Hussien
Gender :	1
Nationality :	Egypt
Date of Birth :	1984-09-07
Country :	Egypt
City :	New Borg El-Arab City
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Education Information

Academic Degree :	PhD in Mechatronics and Robotics Engineering
Academic Study :	Egypt-Japan University of Science and Technology (E-JUST)
Academic Grade :	CGPA: 3.78
Data Gained :	2016-09-01
From :	2013-09-01
To :	2016-09-01
Academic Degree :	Master of Science in Mechatronics and Robotics Engineering
Academic Study :	Egypt-Japan University of Science and Technology (E-JUST)
Academic Grade :	CGPA: 3.5
Data Gained :	2013-09-01
From :	2011-09-01
To :	2013-09-01
Academic Degree :	B.Sc. of Electronics Engineering
Academic Study :	Faculty of Engineering (Shoubra), Benha University
Academic Grade :	84%
Data Gained :	2007-09-01
From :	

To :

📞 careers[0] Information

Emp Name :	The University of Salford
Emp Address :	Greater Manchester, UK
Emp Title :	Senior Research Fellow in Soft Robotics
Emp Description :	- Carry out high quality scientific research inline with the requirements of current funded projects; - Design, implement, test and document appropriate robot designs and control systems; - Liaise with other researchers, both internally and at partner institution to achieve project deliverables; - Contribute to general scholarly activities such as promoting good practice to PhD students and other researchers; - Liaise regularly with the principal investigator and report on progress towards research objectives; - Disseminate research outcomes in collaboration with the principal investigator at conferences, exhibitions and in academic journals; - Develop and maintain skills in relevant research methodologies; - Maintain high standards of academic and commercial confidentiality
From :	2019-08-12
To :	2022-08-12
Emp Name:	Egypt-Japan University of Science and Technology (E-JUST)
Emp Address :	P.O. Box 179, New Borg El-Arab City Postal Code 21934, Alexandria, Egypt
Emp Title :	Adjunct Assistant Professor
Emp Description :	- Teaching one postgraduate course (MTR601-Intelligent Control Systems). - Co-Supervising/Advising of two PhD students and one master student.
From :	2018-09-01
To :	2019-09-01
Emp Name :	Faculty of Engineering (Shoubra), Benha University
Emp Address :	108 Shoubra St., Cairo
Emp Title :	Lecturer (Assistant Professor) - on sabbatical leave since Aug. 2019
Emp Description :	Teaching robotics, measurements and electronics for undergraduates. Supervision of two master students
From :	2016-09-01
To :	2019-09-01

🏛 Qualifications & Traninng

Diploma :	Embedded Systems Diploma
Study :	Jelecom Co., Egypt
Grade :	Very good

Course :	AI and Deep Learning course (Audit)
Conent :	
Organizing Body :	Coursera
Data Gained :	2005-05-01
Data Attend :	2019-09-01
Diploma :	
Study :	
Grade :	
Course :	
Conent :	
Organizing Body :	
Data Gained :	
Data Attend :	

🏛otherqualification[0]

Research Fellowships :	- Senior Research Fellow in Soft Robotics, University of Salford, UK Working as a Senior Research Fellow in Soft Robotics at the University of Salford. Major research area includes control of pneumatic actuators and soft grippers. - Postdoctoral Researcher KOREATECH Univ., S. Korea Worked on soft haptic for soft robots research and involved in a collaboration project with CHARM Lab., Stanford University with title “Human-Centered Design and Control of Vine Robots for Disaster Scenarios".
Scientific Committees :	None

list of Publications :	Journals • Ibrahim A. Seleem, H. El-Hussieny, Samy F. M. Assal and Hiroyuki Ishii, “Development and Stability Analysis of an Imitation Learning-based Pose Planning Approach for Multi-section Continuum Robot.", IEEE Access (2020). • Ibrahim A. Seleem, Samy F. M. Assal, Hiroyuki Ishii and H. El-Hussieny, “Demonstration-Guided Pose Planning and Tracking for Multi-section Continuum Robots Considering Robot Dynamics.", IEEE Access (2019). • Margaret M. Coad, Laura H. Blumenschein, Sadie Cutler, Javier A. R. Zepeda, Nicholas D. Naclerio, H. El- Hussieny, Usman Mehmood, Jee-Hwan Ryu, Elliot W. Hawkes, and Allison M. Okamura. “Vine Robots: Design, Teleoperation, and Deployment for Navigation and Exploration.", IEEE Robotics & Automation Magazine (2019). • H. El-Hussieny and Jee-Hwan Ryu, “Inverse Discounted-based LQR Algorithm for Learning Human Movement Behaviors.”, Applied Intelligence, 2018, 49 (4), pp.1489-1501. • H. El-Hussieny, Samy F. M. Assal and Jee-Hwan Ryu, “SoTCM: a scene-oriented task complexity metric for gaze-supported teleoperation tasks.” Intelligent Service Robotics, 11, 2018, pp.279-288. • H. El-Hussieny, A.A. Abouelsoud, Samy F. M. Assal and Said M. Megahed, “Adaptive learning of human motor behaviors: An evolving inverse optimal control approach.” Engineering Applications of Artificial Intelligence, 50, 2016, pp.115-124. • H. El-Hussieny, Samy F. M. Assal, and M. Abdellatif, “Robotic Exploration- New Heuristic Backtracking Algorithm, Performance Evaluation and Complexity Metric”, International Journal of Advanced Robotic Systems, 12, 2015, pp.33. ---------- ---------- Conferences • M. E. Shalabi, H. El-Hussieny, A. A. Abouelsoud, and Ahmed M. R. Fath Elbab, “ Control of Automotive Air-Spring Suspension System Using Z-Number Based Fuzzy System", in the International Conference on Robotics and Biomimetics, Automation and Robotics (ROBIO 2019), pp. 1306-1311, IEEE, 2019. • Oladayo Solomon and H. El-Hussieny, “An ANFIS-based Human Activity Recognition using IMU sensor Fusion," in Proc. of IEEE Novel Intelligent and Leading Emerging Sciences Conference (NILE2019), Egypt, Vol. 1, pp. 34-37, IEEE, 2019. • Oladayo Solomon, Samy F. M. Assal and H. El-Hussieny, "Towards Development of an Autonomous Robotic System for Beard Shaving Assistance for Disabled People," in Proc. of IEEE International Conference on Systems, Man, and Cybernetics (SMC), Bari, Italy, pp. 3435-3440. IEEE, 2019. • H. El-Hussieny, Sang-Goo Jeong and Jee-Hwan Ryu, “Dynamic Modeling of A Class of Soft Growing Robots Using Euler-Lagrange Formalism" In 2019 SICE Annual Conference, Japan, pp. 453-458, IEEE (2019). • M. E. Shalabi, H. El-Hussieny, A. A. Abouelsoud, and Ahmed M. R. Fath Elbab, “Finite Control Augmented with Fuzzy Logic for Automotive Air-Spring Suspension System", in The 16th. International Conference of Informatics in Control, Automation and Robotics (ICINCO 2019) [Accepted]. • Mohamed G. B. Atia, Omar Salah, and H. El-Hussieny, “OGPR: An Obstacle-Guided Path Refinement Approach for Mobile Robot Path Planning." in Proc. of the 2018 IEEE International Conference on Robotics and Biomimetics (ROBIO), 2018, pp. 844-849 • H. El-Hussieny, U. Mehmood, Z. Mehdi, S-G. Jeong, M. Usman, E. W. Hawkes, A. M. Okamura, and J.-H. Ryu, “Development and evaluation of an intuitive flexible interface for teleoperating soft growing robots," in IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2018, pp. 4995-5002. • Ibrahim A. Seleem, H. El-Hussieny and Samy F. M. Assal, “Motion Planning for Continuum Robots: A Learning from Demonstration Approach," 2018 27th IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN), Nanjing, China, 2018, pp. 868-873. • Ibrahim A. Seleem, H. El-Hussieny and Samy F. M. Assal, "Development of a Demonstration-Guided Motion Planning for Multi-section Continuum Robots," in Proc. of IEEE International Conference on Systems, Man, and Cybernetics (SMC), Miyazaki, Japan, 2018, pp. 333-338. • H. El-Hussieny, A. Asker and O. Salah, “Learning the sit-to-stand human behavior: An inverse optimal control approach," 2017 13th. International Computer Engineering Conference (ICENCO), Cairo, Egypt, 2017, pp. 112-117. • H. El-Hussieny, Samy F. M. Assal, A. A. Abouelsoud, Said M. Megahed, and T. Ogasawara, “Incremental Learning of Reach-to-Grasp Behavior: A PSO-based Inverse Optimal Control Approach,” in Proc. of the 7th. Int. Conf. on Soft computing and pattern recognition, Fukuoka, Japan, pp. 129-135, Nov. 13-15, 2015. • H. El-Hussieny, Samy F. M. Assal, A. A. Abouelsoud, and Said M. Megahed “A Novel Intention Prediction Strategy for a Shared Control Tele-manipulation System in Unknown Environments”, in Proc. of the IEEE/IES Int. Conf. on Mechatronics (ICM 2015), Nagoya, Japan, pp. 204-209, 6-8 Mar. 2015. • H. El-Hussieny, S. F. M. Assal, and M. Abdellatif, “Improved backtracking algorithm for e□cient sensor-based random tree exploration,” in Proc. of the 5th. Int. Conf. on Computational Intelligence, Communication Systems and Networks (CICSyN2013), pp 19-24, Madrid, Spain, 5-7 Jun. 2013. • H. El-Hussieny, S. F. M. Assal, and M. Abdellatif, “Improved sensor-based mobile robot exploration of novel environments”, in Proc. of the 6th. Int. Conf. on Intelligent Computing and Information Systems (ICICIS), 2013, pp. 43-49, Cairo, Egypt, 14-16 Dec. 2013.
Conferences Attended :	IROS'18, ICM'15
Patents :	None
Research Grants (Awarded As PI) :	None
Contributed As Co-Pi :	[In pre-contractual phase] Development of a hybrid parallel-deployable structure-based multi-gripper transplanting robot for row-by-row pot seedlings transplanting in field, STDF, Three years. PI: Samy Assal, E-JUST

Supervision of Postgraduate Students :	(Co-supervisor/Advisor), E-JUST, 2018–2020 Demonstration-Guided Motion Planning for Continuum Robots, Ph.D. (Co-supervisor/Advisor), E-JUST, 2018–2020 Intelligent Control of Automotive Air-Spring Suspension System. Ph.D. (Co-supervisor/Advisor), E-JUST, 2019–2020 Autonomous Tasks-around-head Assistance for Elderly People. M.Sc.

🏛References Employer

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