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Faculty	العلوم			
Department	علم الحاسوب \ علم الحاسوب			
Academic rank	استاذ مساعد			
issue Date	2012			
Specialty	Indoor / outdoor localization			
Research interest	Indoor / outdoor localization, networking, inter-vehicular communication			
PhD Degrees	العام	البلد	الجامعة	الدكتوراه
	2012	USA	Western Michigan university	
Experience				

<p>Published research and Books</p>	<p>Funded projects</p> <ul style="list-style-type: none"> • A novel indoor localization technique controlled by artificial intelligence for smart buildings <i>In Progress</i> - Alzaytoonah University of Jordan. Amman-Jordan 2017 • Implementation of modified open source operating system for Alzaytoonah University of Jordan. Amman-Jordan (<i>Achieved</i>)-2015. • Affordable Smart Lighting Control Module with the Higher Council of Science and Technology in Cooperation with the European Union. Amman-Jordan (<i>Achieved</i>) - 2014 • Quality of Ride assessment with the Michigan Department of Transportation (MDoT). Michigan -USA (<i>Achieved</i>)-2012 • Trajectory Planning in Non-Autonomous Mobile Ad-Hoc Networks with Boeing Company. Michigan-USA (<i>Achieved</i>) -2011 <p>Journal Papers:</p> <ol style="list-style-type: none"> 1. M. Elbes, A. Al-Fuqaha, M. Anan, "A Precise Indoor Localization Approach based on Particle Filter and Dynamic Exclusion Techniques," Submitted to the Pervasive and Mobile Computing Journal (PMC) from Elsevier . 2. M. Elbes, A. Al-Fuqaha, A. Rayes, "An Intelligent Data Fusion Technique to Perform Precise Outdoor Localization," Submitted to the Journal of Location Based Services. 3. M. Elbes, A. Al-Fuqaha, M. Salahodddin, " Review of Particle Swarm Optimization with Emphasis on Engineering and Network Applications," To be Submitted. <p>Conference Papers:</p> <ol style="list-style-type: none"> 1. M. Elbes, A. Al-Fuqaha, A. Rayes, " Gyroscope Drift Correction Based on TDoA Technology in Support of Pedestrian Dead Reckoning," Accepted, IEEE Globecom 2012. 2. M. Elbes, A. Al-Fuqaha, " Design of Social Collaboration and Precise Localization Services for the Blind and Visually Impaired," Submitted to VTC 2013 3 A. Al-Fuqaha, D. Kountanis, S. Cooke, M. Elbes, J. Zhang, "A Genetic Approach for Trajectory Planning in Non-Autonomous Mobile Ad-Hoc Networks with QoS Requirements," IEEE Globecom 2010 Workshop on Mobile Computing and Emerging Communication Networks, Miami, Florida, 6-10 Dec, 2010. published 4. M. Elbes, A. Al-Fuqaha, M. Guizani, J. Oh, "A New Hierarchical and Adaptive Protocol for Minimum-Delay V2V Communication," Vehicular Networking and Applications Workshop, IEEE Globecom 2009, Hawaii, Nov. 30-Dec. 4, 2009.published <ul style="list-style-type: none"> •
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