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Faculty					العلوم
Department					علم الحاسوب
Academic rank					استاذ مساعد
issue Date					2012
Specialty					Image processing
Research interest					Image processing , parallel processing, e-health
PhD Degrees	العام	البلد	الجامعة	الدكتوراه	
	2011	UK	Brunel university	3D medical image segmentation	
Experience					7

<p>Published research and Books</p>	<p><b>Journal Papers:</b></p> <ul style="list-style-type: none"> <li>• Shadi AlZu'bi and Abbas Amira, "3D Medical Volume Segmentation Using Hybrid Multiresolution Statistical Approaches," <i>Advances in Artificial Intelligence, Special issue on Machine Learning Paradigms for Modeling Spatial and Temporal Information in Multimedia Data Mining</i>, vol. 2010, 2010.</li> <li>• Shadi AlZu'bi and Maysam Abbod, "Multi-resolution Analysis using Wavelet, Ridgelet, and Curvelet Transforms for Medical Image Segmentation," <i>International Journal of Biomedical Imaging</i>, vol. 2010, 2010.</li> <li>• Shadi Alzubi, Yaser Jararweh, Mahmoud Al-Ayyoub and Mohammad Shehab, "Accelerating FCM Segmentation of 3D Medical Volumes using CUDA Programming," <i>Journal of Multimed Tools Appl(MTAP) - (2016)</i>. doi:10.1007/s11042-016-4218-0</li> <li>• Shadi Alzubi, Yaser Jararweh, Mahmoud Al-Ayyoub and Mohammad Shehab, "Enhanced 3D segmentation techniques for reconstructed 3D medical volumes: Robust and Accurate Intelligent System," <i>Procedia Computer Science 113 (2017) 531–538</i>. 10.1016/j.procs.2017.08.318</li> </ul> <p><b>Conferences</b></p> <ul style="list-style-type: none"> <li>• Shadi AlZu'bi, Naveed Islam and Maysam Abbod, "3D Multiresolution Analysis for Reduced Features Segmentation of Medical Volumes Using PCA," <i>2010 IEEE Asia Pacific Conference on Circuits and Systems (APCCAS 2010)</i>, issue Dec 2010, pp. 604-607, ISBN: 978-1-4244-7454-7 Kuala Lumpur, Malaysia, 2010.</li> <li>• Shadi AlZu'bi, Naveed Islam and Maysam Abbod, "Enhanced Hidden Markov Models for Accelerating Medical Volumes Segmentation," <i>The 6th 2011 IEEE GCC Conference and Exhibition (IEEE GCC)</i>, issue Feb 2011, pp. 287-290, ISBN: 978-1-61284-118-2, Dubai, UAE, 2011.</li> <li>• Shadi AlZu'bi, Hamideh Rezaee, Ali Aghagolzadeh and M. Hadi Seyedarabi "Tracking and Occlusion Handling in Multi- Sensor Networks by Particle Filter," <i>The 6th 2011 IEEE GCC Conference and Exhibition (IEEE GCC)</i>, issue Feb 2011, pp. 397-400, ISBN: 978-1-61284-118-2, Dubai, UAE, 2011.</li> <li>• Shadi AlZu'bi, Saeed Sherif and Maysam Abbod, "Efficient Implementation and Evaluation of Wavelet Packet for Medical Image Segmentation," <i>2011 IEEE International Workshop on Medical Measurements and Applications Proceedings (MeMeA)</i>, Issue May 2011, pp. 619-622, ISBN: 978-1-4244-9336-4, Bari, Italy, May, 2011.</li> <li>• Shadi AlZu'bi Saeed Sherif, Navid Islam and Maysam Abbod, "Multi-Resolution Analysis using Curvelet and Wavelet Transforms for Medical Imaging," <i>2011 IEEE International Workshop on Medical Measurements and Applications Proceedings (MeMeA)</i>, Issue May 2011, pp. 188-191, ISBN: 978-1-4244-9336-4, Bari, Italy, May, 2011.</li> <li>• Yaser Jararweh, Salim Hariri and Shadi AlZu'bi, "An Optimal Multi-Processor Allocation Algorithm for High Performance GPU Accelerators," <i>2011 IEEE Jordan Conference on Applied Electrical Engineering and Computing Technologies (AEECT)</i>, issue Dec 2011, pp. 1-6, ISBN: 978-1-4577-1083-4, Amman, Jordan, Dec, 2011.</li> <li>• Shadi AlZu'bi and Yaser Jararweh, "Medical Volume Segmentation Using 3D Multiresolution Analysis," <i>8<sup>th</sup> IEEE International Conference on</i></li> </ul>
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*Innovations in Information Technology (IIT '12), AL AIN, UAE, March 2012.*

- *Shadi AlZu'bi and Yaser Jararweh, "Reduced Features Medical Volume Segmentation Using 3D Multiresolution Analysis and PCA," The 3rd International Conference on Multimedia Computing and Systems (ICMCS'12), Tangier, Morocco, May 2012.*
- *Shadi AlZu'bi and Yaser Jararweh, "Exploiting GPUs for Compute Intensive Medical Applications," The 3rd International Conference on Multimedia Computing and Systems (ICMCS'12), Tangier, Morocco, May 2012.*
- *Shadi AlZu'bi and Abbes Amira, "Efficient Implementation of Wavelet Packet for Medical Image Segmentation and Analysis," The second SED research student conference (RESCON 2009), Brunel University-West London, June, 2009.*
- *Shadi AlZu'bi and Maysam Abbod, "3D Multiresolution Analysis for Segmenting Reduced Features Medical Volumes Using PCA," The Third SED research student conference (RESCON 2010), Brunel University-West London, June, 2010.*
- *Shadi AlZubi, Ansam Abu-Dalo, Yaser Jararweh, Mahmoud Al-Ayyoub and Mohammad Alsmirat, "A GPU-Based Breast Cancer Detection System Using Fuzzy C-Means Clustering Algorithm," 5th international conference on Multimedia Computing and Systems (ICMCS'16), Marrakesh, Morocco*
- *Shadi AlZu'bi, Moahmmmed A. Shehab, Mahmoud Al-Ayyoub, Elhadj Benkhelifa, Yaser Jararweh, "Parallel implementation of FCM-based volume segmentation of 3D images", 13th International Conference of Computer Systems and Applications (AICCSA) 2016 IEEE/ACS, pp. 1-6, 2016, ISSN 2161-5330.*
- *Shadi AlZu'bi, Moahmmmed A. Shehab, Mahmoud Al-Ayyoub, Yaser Jararweh, "Robust and Accurate Intelligent System : Enhanced 3D segmentation techniques for reconstructed 3D medical volumes", The 8th International Conference on Emerging Ubiquitous Systems and Pervasive Networks (EUSPN), Lund, Sweden, AUG, 2017*

#### **Invited Poster Conferences**

- *Shadi AlZu'bi and Abbes Amira, "Multiresolution statistical Approaches for 3D medical Imaging," The graduate school research student poster conference, Brunel University-West London, May, 2009.*
- *Shadi AlZu'bi and Abbes Amira, "Efficient Implementation of Wavelet Packet for Medical Image Segmentation and Analysis," The second SED research student poster conference (RESCON 2009), Brunel University-West London, June, 2009.*
- *Shadi AlZu'bi, "Multiresolution Analysis for Medical Image Segmentation," The 6th 2011 IEEE GCC Conference and Exhibition (IEEE GCC), Dubai, UAE, 2011.*