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Summary

My research interest is; generally; in Information Technology applications and specifically in: Digital image Processing, Computer Vision, Signal Processing, biometrics, Statistical Pattern Recognition, interactive multimedia applications, information visualization, Game design and development, Augmented reality.

Publications

- K. Dewidar; J. Thomas; **S. Bayoumi**, "**Detecting the environmental impact of off-road vehicles on Rawdat Al Shams in central Saudi Arabia by remote sensing**", Environmental Monitoring and Assessment, 188(7):396, doi: 10.1007/s10661-016-5400-6., June/2016,.1-12
 - **Sahar Bayoumi**, Afnan Aldayel, Mariam Alotaibi, Muneera Aldraihem, Sara Alrashed, Soroor Alzahrahi. "**Class attendance system based-on palm vein as biometric information**". Journal of theoretical and applied information technology, Vol. 77. No. 2, 20th July 2015
 - Marwa M. Khan and **Sahar Bayoumi**. "**Multimedia as a Help for Children with Special Learning Needs**". IEEE Proceeding of the International Conference on Cloud Computing ICC3 2015, April 27-28, 2015, PNU, Riyadh, KSA.
 - Dina Albassam, Ameerah Almotiri, Sumaiah Alonizi, Fatmah Al-Qhtani, Waad Althagafy, **Sahar Bayoumi** and Nourah Alrossais, "**Workflow System at KAUHT**" The 6th Annual Undergraduate Research Conference on Applied Computing (URC 2014), Zayed University, Dubai, 30 april-1 May 2014.
 - **Bayoumi S.**, AlSobky E., Almohsin M., Altwaim M., Alkaldi M. and Alkahtani M.. "**A Real-time Fire Detection and Notification System Based on Computer Vision**". IEEE Proceeding of the International Conference on IT Convergence and Security (ICITCS2013), December 16-18, 2013, Macau, China.
 - **Sahar Bayoumi**; Ghada Alsebayel; Sara Alzahrani; Sulaf Almagoshy; Afnan Sheikho and Sara Alsayigh. "**PCA-Based Palm Vein Authentication system**". IEEE Proceeding of the 4th International Conference on Information Science and Applications (ICISA2013), June 24-26, 2013, Hilton Pattaya Hotel, Thailand.
 - Dina A. Hafiz, Walaa M. Sheta, **Sahar Bayoumi** and Bayumy A.B. Youssef. "A new approach for 3D Range Image Segmentation using Gradient Method" Journal of Computer science 7 (4): 475-487, 2011.
 - **Sahar Bayoumi**, Ezzat Korany and Sherin Fathy. "**License Plate Recognition system for Egyptian Car Plates**" The 2010 International Conference on Image and Video processing and Computer Vision, July 12-14, 2010, Orlando, FL, USA.
 - **Sahar Bayoumi**, Tony Pridmore and Boriana Koleva. "**Exploiting ambient**"
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illumination to locate and recognise user behaviour in enclosed environments”
 Pres Ubiquit Comput, (2010) 14:335-345.

- Mohamed A. El-Iskandarani, Sahar E. Bayoumi and Guita M. Shawkat. **“Automatic Image Annotation Using Principal Component Analysis”** 19th International Conference of Computer Theory & Applications, 17-19 October 2009.
- Dawn Knight, Sahar Bayoumi, Steve Mills, Andy Crabtree, Svenja Adolphs, Tony Pridmore, Ronald Carter. **“Beyond the text: Construction and analysis of multi-model linguistic corpora”** Second International conference on e-Social Science, 28-30 June 2006, Manchester Metropolitan University, Manchester, UK.
- A. Ghali, S. Benford, S. Bayoumi, J. Green and T. Pridmore. **“Visually Tracked Flashlights as Interaction Devices.”** Proc. Ninth IFIP TC13 International Conference on Human-Computer Interaction (INTERACT ‘03) 1-5 September 2003, Zurich, Switzerland, IFIP.
- A. Ghali, S. Bayoumi, J. Green, T. Pridmore and S. Benford. **“Vision-Mediated Interaction with the Nottingham Caves”** SPIE Conference 20-24 January 2003, Santa Clara, California, USA.
- A. Ghali, S. Benford, S. Bayoumi, J. Green and T. Pridmore. **“Going Underground: Experiences with flashlights as interaction devices”** The Annual Equator Internal Conference 24/25 October 2002, Careys Manor, Brockenhurst, UK.
- M. Morad, M. A. Ismail, E. Korany, and S. Bayoumi. **“Computer assisted identification and classification of auditory brainstem responses (cont.)”** XIV. Biennial International Symposium, August 27-31, 1995, Lyon, France.
- M. A. Ismail, E. Korany, M. Morad, and S. Bayoumi. **“Computer assisted identification and classification of brainstem auditory evoked potential.”** Third International Conference on Artificial Intelligence Applications, January 4-7, 1995, Cairo, Egypt.

Skills

Academic	<ul style="list-style-type: none"> • Teaching undergraduate courses: Database Principles, Data Structure, Software Engineering, Ethics in Information Technology, Game Design and Development, Multimedia Principles. • Teaching postgraduate courses: Pattern Recognition, Interactive multimedia applications, Usability experience, Information visualization, Computer vision
Administrative	<ul style="list-style-type: none"> • Supervised and completed 4 master theses and 1 master project. • Head of quality assurance committee of the department of Information technology, College of Computer and Information Sciences, KSU.
Personal	<ul style="list-style-type: none"> • Member in Curriculum Development Committee. • Organizer of female section for Hackthon Arabia 2017. • Mentor teams for IEEEExtreme programming competition for three years.

Experience

September 2011 to Present	IT Department, CCIS, King Saud University Riyadh, KSA Full-time Assistant Professor
September 2010 to August 2011	CCIT, Tabouk University Tabouk, KSA

September 2006 to August 2010	Full-time Assistant Professor IT Department, IGSR, Alexandria University Alexandria, Egypt
September 2005 to August 2006	Full-time Assistant Professor School of CSIT, Nottingham University Nottingham, UK
June 1996 to August 2006	Part-time Research Assistant IT Department, IGSR, Alexandria University Alexandria, Egypt
January 1991 to May 1996	Full-time Lecturer IT Department, IGSR, Alexandria University Alexandria, Egypt
	Full-time Demonstrator

Education

2006	Nottingham University, School of Computer Science Nottingham, UK Minor in Computer Vision Thesis title: "Behaviour classification from disruptions in ambient illumination: A Novel approach".
1996	Alexandria University, IGSR, IT Department Alexandria, Egypt Minor in Signal Processing Thesis title: "An information system for auditory evoked potential applications"
1990	Alexandria University, Faculty of Science, Department of Statistics Alexandria, Egypt Minor in Statistics and Mathematics with <i>Very Good</i> grade.

References

- Prof. Tony Pridmore.
Professor of Computer Science, University of Nottingham, UK.
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- Dr. Eiman Kanjo.
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