

CURRICULUM VITAE (CV)



Name: Asmaa Farouk Mohammed Hosni.

Contacts:

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Bibliography Information:

Date of Birth : Sept. 30/1978.

Nationality : Egyptian.

Marital Status : Married.

Mother Language: Arabic.

Other Languages : English.

Education:

April 2013: Ph.D., Vienna University of Technology, Institute of Software Technology, Interactive Media Systems Group, Vienna, Austria.

Ph. D Field of Study: Computer Vision.

PhD. Thesis entitled: "Novel Methods for Discontinuity Preserving Support Aggregation in Local Stereo Matching".

October 2005: M.Sc., Electrical Engineering Dept., Assiut University, Assiut, Egypt.

M. Sc. Field of Study: Computer Graphics.

M. Sc. Thesis entitled: "English Text to Arabic Sign Language Translator".

June 2000: B.Sc., Electrical Engineering Dept., Assiut University, Assiut, Egypt (with grading percentage 83.4%, very good with honor's degree).

Professional Experience:

2013 to now: Assistant professor, Electrical Engineering Dept., Assiut University, Assiut, Egypt.

2005 to 2013: Assistant lecturer, Electrical Engineering Dept, Assiut University, Assiut, Egypt.

2000 to 2005: Demonstrator, Electrical Engineering Dept, Assiut University, Assiut, Egypt.

Research Interests:

- Computer vision.
- Pattern recognition.
- Computer graphics.

Teaching Experience:

- Computer Vision.
- Microprocessors.
- Computer Architecture.
- Digital Circuits Design.
- Electrical Circuits.

Programming Skills:

- **Languages:** FORTRAN, PASCAL, Assembly, C/C++ (professional), OpenGL, OpenCV (professional).
- GPU programming (professional).

Publications:

- [1] Yossef B. Mahdy, Khaled M. Shaaban and **Asmaa F. Hosni**, “English Text to Arabic Sign Language Translator”, Journal of Engineering Science, JES 2005.
- [2] **A. Hosni**, M. Bleyer, M. Gelautz, and C. Rhemann. “Local Stereo Matching Using Geodesic Support Weights”, IEEE International Conference on Image Processing (ICIP), Cairo, Egypt, 2009.
- [3] **A. Hosni**, M. Bleyer, and M. Gelautz. “Image Segmentation Via Iterative Geodesic Averaging”, International Conference on Image and Graphics (ICIG), Xian, China, 2009.
- [4] **A. Hosni**, M. Bleyer, and M. Gelautz. “Geodesic Support Weights For Local Stereo”, Junior Scientist Conference (JSC), Vienna, Austria, 2010, (short paper).
- [5] **A. Hosni**, M. Bleyer, and M. Gelautz. “Near Real-Time Stereo With Adaptive Support Weight Approaches”, International Symposium on 3D Data Processing, Visualization and Transmission (3DPVT), Paris, France, 2010.
- [6] C. Rhemann, **A. Hosni**, M. Bleyer, M. Gelautz, and C. Rother. “Fast Cost-Volume Filtering For Visual Correspondence and Beyond”, IEEE Computer Vision and Pattern Recognition Conference (CVPR), Colorado Springs, USA, 2011.
- [7] **A. Hosni**, C. Rhemann, M. Bleyer, and M. Gelautz. “Real-Time Local Stereo Matching Using Guided Image Filtering”, IEEE International Workshop on Hot Topics in 3D (Hot3D) in conjunction with the IEEE International Conference on Multimedia and Expo (ICME), Barcelona, Spain, 2011.
- [8] **A. Hosni**, C. Rhemann, M. Bleyer, and M. Gelautz. “Temporally Consistent Disparity and Optical Flow Via Efficient Spatio-temporal Filtering”, The 5th Pacific-Rim Symposium on Image and Video Technology (PSIVT), Gwangju, South Korea, 2011.
- [9] **A. Hosni**, M. Gelautz, and M. Bleyer. “Accuracy-Efficiency Evaluation of Adaptive Support Weight Techniques For Local Stereo Matching”, The Joint Pattern Recognition Symposium of the German Association for Pattern Recognition and the Austrian Association for Pattern Recognition (DAGM-OAGM), Graz, Austria, 2012.
- [10] **A. Hosni**, C. Rhemann, M. Bleyer, C. Rother, and M. Gelautz. “Fast Cost-Volume Filtering For Visual Correspondence and Beyond”, IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2013.
- [11] **A. Hosni**, M. Bleyer, and M. Gelautz. “Secrets of Adaptive Support Weight Techniques For Local Stereo Matching”, Journal of Computer Vision and Image Understanding (CVIU), 2013.
- [12] N. Brosch, **A. Hosni**, L. He, G. Ramachandran, and M. Gelautz. “Content Generation For 3D Video/TV”, Journal of Elektrotechnik und Informationstechnik (E&I), 2011.
- [13] N. Brosch, **A. Hosni**, C. Rhemann, and M. Gelautz. “Spatio-temporally Coherent Interactive Video Object Segmentation via Efficient Filtering”, The Joint Pattern Recognition Symposium of the German Association for Pattern Recognition and the Austrian Association for Pattern Recognition (DAGM-OAGM), Graz, Austria, 2012.

Honors:

2001 April: Sixth October University Award for the Distinction Students from the Egyptian Universities.

2002 March: Egyptian Engineering Syndicate Award.