

## Asem M. Ali

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### PERSONAL DATA

**Name:** Asem Mohamed Ahmed Ali  
**Date of Birth:** May, 12, 1976  
**Place of Birth:** Egypt  
**Nationality:** Egyptian  
**Contact Address:** Assiut University, Faculty of Engineering  
 Electrical Engineering Department, RM# 208  
 Assiut A.R.E., 71518  
**Tel (home):** +20-882353570  
**Tel (Mobile):** +201014767677  
**Fax :** +20-882332553  
**Email:** [asem.ali@eng.au.edu.eg](mailto:asem.ali@eng.au.edu.eg)  
**Homepage:** [http://www.aun.edu.eg/membercv.php?M\\_ID=854](http://www.aun.edu.eg/membercv.php?M_ID=854)

### ACADEMIC/ PROFESSIONAL PARTICULARS

**(a) Field of Specialization:**  
 Major Field of Specialization: Electrical Engineering  
 Fine Field of Specialization: Computer Engineering

#### (b) Academic Qualifications

- **Ph.D.** Electrical & Computer Engineering, 2008, University of Louisville, USA, Dissertation Title: “Image Labeling by Energy Minimization with Appearance and Shape Priors,”  
GPA: 3.95.
- **M.Sc.** Electrical Engineering, 2002, Assiut University, Egypt, Thesis Title: “Intelligent Tracking Control of a D-C Motor,”  
General grade: Very Good 86%.
- **B.Sc.** Electrical Engineering, 1999, Assiut University, Egypt, Distinction With Honor, First on class.

#### (c) Academic Honors and Awards

- Distinction with Honor, First on class, Assiut University, 1999.
- Graduate Research Assistantship for PhD study at University of Louisville, 2004-2008.
- Graduate Dean Citation for Dissertation Research, University of Louisville, 2008.

#### (d) Membership of Professional Bodies

- IEEE Student Member since 2004.

#### (e) Language Proficiency

- Arabic (Mother Tongue)
- English Fluent (Read/Write)

### CAREER DETAILS

#### (a) Academic Positions Held

- **Assistant Professor**, Electrical Engineering Department, Faculty of Engineering, Assiut University, Egypt, February 2011 – Present.
- **Postdoctoral Associate**, Computer Vision and Image Processing (CVIP) Lab., Speed School, University of Louisville, USA, May 2008 - December 2010.
- **Research & Teaching Assistant**, Electrical & Computer Eng. Dept., Speed School, University of Louisville, USA, January 2004 - April 2008.
- **Teaching Assistant**, Electrical Engineering Department, Faculty of Engineering, Assiut University, Egypt, August 2000 - December 2003.

**(b) Professional/Industrial Positions Held**

N/A

**(c) Administrative Positions Held**

- Member of the academic executive committee, Mechatronics & Robotics program, Faculty of Engineering, Assiut University, Egypt, October 2014 – Present.
- The manager of the IT unit, Faculty of Engineering, Assiut University, October 2012-present.
- Member of Information Center, Faculty of Engineering, Assiut University, Egypt, November 2014 – Present.

**Teaching****(a) Summary of Courses Taught**

<u>Course Code</u>	<u>Course Name</u>	<u>Number of Times Taught</u>
P03737	Pattern Recognition	4
EC321	Computer Organization	2
E401	Embedded Systems	4
EC001	Computers and Programming	4
EC427	Operating System	2
EC325	Microprocessors	4
MT433	Industrial Process Control	2
MTR08113	Introduction to Mechatronics	2
EE427	Computer Interfacing	1
EC424	Graduation Project	1
EE0311	Electric Circuits	2
EE0412	Electronics	1
EC0413	Computer Programming	4
MTR08112	Project in Mechatronics	1
MTR0501	Seminars in Mechatronics	1
MC361	Logic Circuits	1
N/A	Artificial Intelligence	1
ECE645	Computer Vision Lab	2
ECE635	Digital Image Processing Lab	1
ECE530	Intro. to Stochastic and Estimation Theory	1
ECE520	Digital Signal Processing Lab.	1

**(b) Participation in Academic Accreditation**

Computers and Systems Program, One of three members of the program committee, Faculty of Engineering, Assiut University, The National Authority for Quality Assurance and Accreditation in Education, January 2011 – October 2012.

**(c) Research Students Supervised/Trained**

<u>Level</u>	<u>Number of Trainees</u>
Postdoctoral Fellows	0
PhD Students	1
Master Students	2
Undergraduate Students	13

**(d) Training**

<u>Training Activity</u>	<u>Training Institution</u>	<u>Country</u>	<u>Period</u>
<ul style="list-style-type: none"> <li>• Research Ethics</li> <li>• Conference Organization</li> <li>• Time and Conference Management</li> <li>• Research Team Management</li> <li>• International Publishing of Research</li> <li>• Code of Ethics</li> </ul>	Faculty and Leadership Development Centre (FLDC)	Egypt	January, 15, 2011 to February, 10, 2011
<ul style="list-style-type: none"> <li>• Credit Hour System</li> <li>• Effective Presentation</li> </ul>			20-24 March, 2014

**RESEARCH**

**(a) Research Interests**

- Machine Learning,
- Computer Vision,
- Face Recognition,
- Statistical Modeling
- Image Analysis,
- Medical Imaging.

**(b) Publications/Citations Data**

<u>Type of Publication</u>	<u>Number of Publications</u>
Articles in International Refereed Journals	5
Conference Papers	39
Books/Book Chapters	1
Edited Books	N/A
Patents	N/A
Others (Technical Report)	1

<u>Citation Source</u>	<u>Number of Citations</u>
Google Scholar <a href="https://scholar.google.com.eg/citations?user=zNFLKFkAAAAJ&amp;hl=en">https://scholar.google.com.eg/citations?user=zNFLKFkAAAAJ&amp;hl=en</a>	248
Research Gate <a href="https://www.researchgate.net/profile/Asem_Ali2">https://www.researchgate.net/profile/Asem_Ali2</a>	136

**(c) Research Grants**

- Graduation project, **Supervisor**, “B-Book device”, National Telecom Regulatory Authority (NTRA) Egypt, 10/13 – 05/14, 10000 L.E.
- Research project, **Research Scientist**, “Biometric Optical Surveillance - BOSS,” Department of Homeland Security, 12/10 – 12/12, \$2,562,511.
- Research project, **Research Scientist**, “Stand-Off Biometric Recognition - SOBR,” Department of Defense, 08/09 – 07/10, \$652,500.
- Research project, **Research Scientist**, “3D Face Recognition – Phase II,” EAW, Inc. 08/08 – 02/10, \$752,862.
- Research project, **Research Assistant**, “Novel Approaches in Perception for Autonomous Mobility,” NASA-entry grant, 08/07 – 05/08, \$41K.
- Research project, **Research Assistant**, “3D Face Recognition – Phase I,” EAW, Inc., 08/06 – 07/08, \$752,862.
- Research project, **Research Assistant**, “Perception-Based Robotic Navigation in Unknown Environments,” NASA-entry grant, 08/06 – 05/07, \$42K.

## SERVICE

### (a) Membership of Institutional, National, or International Scientific Advisory Boards

IEEE Student Member since 2004.

### (b) Service as Reviewer

#### Journals

IET Computer Vision, 1751-9640, IET Digital Library, (since: 01/10)

#### Conferences

IEEE International Conference on Image Processing, (Hong Kong, China), 2010.

IEEE International Conference on Image Processing, (Cairo, Egypt), 2009.

### (c) University Service

#### Faculty of Engineering, Assiut University, Egypt, October 2014 – Present

- Member of the academic executive committee, Mechatronics & Robotics program.

#### Faculty of Engineering, Assiut University, Egypt, July 2014 – Present

- Member of the Curriculum committee, Electrical Engineering Department, responsible for the Computers and Systems Program.

#### Faculty of Engineering, Assiut University, Egypt, March 2011 – March 2012

- Member of the academic executive committee, Electrical Engineering Department.

### (d) Public Service

- The president of the Egyptian Student Association in North America (ESANA), Louisville's Chapter (ESA), May 2006 - 2007.

## List of Publications

### (a) International Refereed Journals

1. Eslam Mostafaa, **Asem M. Ali**, Aly Farag, "Learning A NonLinear Combination of Mahalanobis Distances Using Statistical Inference For Similarity Measure", IET Computer Vision Journal, To Appear.
2. **Asem M. Ali**, "A 3D-based Pose Invariant Face Recognition at a Distance Framework", Transactions on Information Forensics and Security, Vol. 9, No. 12, IEEE, pp. 2158-2169, 2014.
3. **Asem M. Ali**, Melih S. Aslan, Aly A. Farag, "Vertebral Body Segmentation with Prior Shape Constraints for Accurate BMD Measurements", Computerized Medical Imaging and Graphics Journal, Vol. 38, No. 7, ELSEVIER, pp. 586-595, 2014.
4. Eslam Mostafaa, Riad Hammoud, **Asem M. Ali**, Aly Farag, "Face Recognition in Low Resolution Thermal Images", Journal of Computer Vision and Image Understanding, Vol. 117, No. 12, ELSEVIER, pp. 1689-1694, 2013.
5. **Asem M. Ali**, Amal A. Farag, N. Alajlan, Aly A. Farag, "Multimodal imaging: modelling and segmentation with biomedical applications", Computer Vision Journal, Vol. 6, No. 6, IET, pp. 524-539, 2012.

### (b) Conference Papers

1. Eslam Mostafa, **Asem M. Ali**, Aly Farag, "A Facial Features Detector Integrating Holistic Facial Information and Part-based Model", Computer Vision and Pattern Recognition Workshop on Biometrics, Boston USA, 7-12 June, IEEE, 2015, To Appear.

2. Eslam Mostafa, Aly Farag, Ahmed Shalaby, **Asem M. Ali**, Travis Gault, Ali Mahmoud, “Long term facial parts tracking in thermal imaging for uncooperative emotion recognition”, International Conference on Biometrics: Theory, Applications and Systems, Arlington USA, September 29 – October 2, IEEE, pp. 1-6, 2013.
3. Mostafa Abdelrahman, **Asem M. Ali**, Ahmed A. Farag, Manuel Casanova, Aly A. Farag. “New Approach for Classification of Autistic vs. Typically Developing Brain Using White Matter Volumes”, Canadian Conference on Computer and Robot Vision, Toronto Canada, 27-30 May, IEEE, pp. 284 - 289, 2012.
4. Mostafa Abdelrahman, **Asem M. Ali**, Shireen Elhabian, Ham Rara, Aly A. Farag. “A Passive Stereo System for 3D Human Face Reconstruction and Recognition-at-a-Distance”, Computer Vision and Pattern Recognition Workshops, Rhode Island USA, 16 – 21 June, IEEE, pp. 17-22, 2012.
5. Eslam Mostafa, **Asem M. Ali**, Aly A. Farag, “Pose Invariant Approach for Face Recognition at Distance”, European Conference on Computer Vision, Florence Italy, 1-13 October, Lecture Notes in Computer Science Vol. 7574: Springer Berlin Heidelberg, pp. 15-28, 2012.
6. Amal Farag, **Asem M. Ali**, James Graham, Aly Farag, Salwa Elshazly, Robert Falk, “Evaluation of geometric feature descriptors for detection and classification of lung nodules in low dose ct scans of the chest”, International Symposium on Biomedical Imaging (ISBI), Chicago USA, 30 March – 2 April, IEEE, pp. 169 - 172, 2011.
7. Melih S. Aslan, **Asem M. Ali**, Aly A. Farag, Hossam Abdelmunim, Ben Arnold, Ping Xiang, “A new segmentation and registration approach for vertebral body analysis”, International Symposium on Biomedical Imaging (ISBI), Chicago USA, 30 March – 2 April, IEEE, pp. 2006-2009, 2011.
8. Shireen Elhabian, Ham Rara, **Asem M. Ali**, Aly Farag, “Illumination-invariant Statistical Shape Recovery with Contiguous Occlusion”, Canadian Conference on Computer and Robot Vision, St Johns Canada, 25-27 May, IEEE, pp. 301 - 308, 2011.
9. Ahmed Shalaby, **Asem M. Ali**, Aly A. Farag, “Simultaneous Identification and Tracking of Moving Targets”, Workshop on Object Tracking and Classification Beyond the Visible Spectrum (OTCBVS), Colorado Springs USA, 20 – 25 June, IEEE, pp. 49 - 54, 2011.
10. Amal Farag, Aly A Farag, Hossam Abdelmunim, **Asem M. Ali**, James Graham, Salwa Elshazly, Ahmed Farag, Sabry Al Mogy, Mohamed Al Mogy , Sahar Al Jafary, Hani Mahdi, Robert Falk, Rebecca Milam, “Feature Descriptors For Nodule Type Classification”, Computer Assisted Radiology and Surgery (CARS), Berlin Germany, 22 – 25 June, Springer Berlin Heidelberg, pp. 1 – 6, 2011.
11. Amal Farag, **Asem M. Ali**, Shireen Elhabian, Aly A Farag, “Probability density estimation by linear combinations of Gaussian kernels- generalizations and algorithmic evaluation”, International Conference on Multimedia Technology (ICMT), Hangzhou China, 26 - 28 July, IEEE, pp. 6491-6494, 2011.
12. Mostafa Abdelrahman, **Asem M. Ali**, Aly Farag, “Precise change detection in multi-spectral remote sensing imagery using SIFT-based registration”, International Conference on Multimedia Technology (ICMT), Hangzhou China, 26 - 28 July, IEEE, pp. 6238 - 6242, 2011.

13. Mostafa Abdelrahman, Shireen Elhabian, **Asem M. Ali**, Aly Farag, “Face recognition at-a-distance using texture, sparse-stereo, and dense-stereo”, International Conference on Multimedia Technology (ICMT), Hangzhou China, 26 - 28 July, IEEE, pp. 6690 - 6695, 2011.
14. Amal Farag, Hossam Abdelmunim, James Graham, Aly A. Farag, Salwa Elshazly, **Asem M. Ali**, Ahmed Farag, Sabry Al Mogy, Mohamed Al Mogy, Robert Falk, Sahar Al Jafary, Hani Mahdi, Rebecca Milam, “Variational Approaches For Segmentation Of Lung Nodules”, International Conference on Image Processing (ICIP), Brussels Belgium, 11-14 Sept., IEEE, pp. 2157 - 2160, 2011.
15. Mostafa Abdelrahman, **Asem M. Ali**, Shireen Y. Elhabian, Aly A. Farag, “Solving Geometric Co-registration Problem of Multi-spectral Remote Sensing Imagery Using SIFT-Based Features toward Precise Change Detection”, International Symposium on Visual Computing (ISVC), Las Vegas US, 26-28 Sept., Lecture Notes in Computer Science Springer Berlin Heidelberg, pp.607-616, 2011.
16. Melih S. Aslan, **Asem M. Ali**, Ham Rara, Ben Arnold, Rachid Fahmi, Aly Farag, Ping Xiang, “A Novel, Fast, and Complete 3D Segmentation of Vertebral Bones”, International Conference on Acoustic, Speech, and Signal Processing (ICASSP), Dallas USA, 14 – 19 March, IEEE, pp. 654-657, 2010.
17. Ham Rara, **Asem M. Ali**, Shireen Elhabian, Thomas Starr, and Aly A. Farag, “Face Recognition at-a-Distance using Texture, Dense- and Sparse-Stereo Reconstruction”, International Conference on Pattern Recognition (ICPR), Istanbul Turkey, 23 – 26 August, IEEE, pp. 1221-1224, 2010.
18. Melih S. Aslan, **Asem M. Ali**, Aly A. Farag, Ham Rara, Ben Arnold, Ping Xiang, “3D Vertebral Body Segmentation Using Shape Based Graph Cuts”, International Conference on Pattern Recognition (ICPR), Istanbul Turkey, 23 – 26 August, IEEE, pp. 3951-3954, 2010.
19. Melih S. Aslan, **Asem M. Ali**, Aly A. Farag, Ben Arnold, Dongqing Chen, Ping Xiang, “3D Vertebrae Segmentation in CT Images with Random Noises”, International Conference on Pattern Recognition (ICPR), Istanbul Turkey, 23 – 26 August, IEEE, pp.2290-2293, 2010.
20. Melih S. Aslan, **Asem M. Ali**, Ham Rara, Aly A. Farag, “An Automated Vertebra Identification and Segmentation in CT Images”, International Conference on Image Processing (ICIP), Hong Kong China, 26 – 29 September, IEEE, pp. 233-236, 2010.
21. Melih S. Aslan, **Asem M. Ali**, Dongqing Chen, Ben Arnold, Aly A. Farag, Ping Xiang, “3D Vertebrae Segmentation Using Graph Cuts With Shape Prior Constraints”, International Conference on Image Processing (ICIP), Hong Kong China, 26 – 29 September, IEEE, pp. 2193-2196, 2010.
22. Ham Rara, Shireen Elhabian, **Asem M. Ali**, Mike Miller, Thomas Starr, Aly Farag, “Face Recognition at-a-Distance using Texture and Sparse-Stereo Reconstruction”, International Conference on Biometrics: Theory, Applications and Systems (BTAS), Washington DC USA, 27 – 29 September, IEEE, pp. 1221-1224, 2010.
23. Amal Farag, **Asem M. Ali**, Shireen Elhabian, James Graham, Aly Farag, Robert Falk, “Feature-Based Lung Nodule Classification”, International Symposium on Visual Computing (ISVC), Las Vegas US, 29 Nov - 1 Dec, Lecture Notes in Computer Science Springer Berlin Heidelberg, pp. 79-88, 2010.

24. H. Rara, S. Elhabian, **Asem M. Ali**, M. Miller, T. Starr, A. A. Farag, “Face recognition at a distance based on sparse-stereo reconstruction”, Computer Vision and Pattern Recognition Workshops, Miami USA, 20 – 21 June, IEEE, pp. 27 - 32 2009.
25. **Asem M. Ali**, Amal Farag, Aly Farag, “Labelling Color Images by Modelling the Colors Density Using A Linear Combination of Gaussians and EM Algorithm”, International Conference on Image Processing (ICIP), Cairo Egypt, 7 – 10 November, IEEE, pp. 1645 - 1648, 2009.
26. Melih S. Aslan, **Asem M. Ali**, Ben Arnold, Rachid Fahmi, Aly A. Farag, Ping Xiang, “Segmentation of trabecular bones from vertebral bodies in volumetric CT spine images”, International Conference on Image Processing (ICIP), Cairo Egypt, 7 – 10 November, IEEE, pp. 3385 - 3388, 2009.
27. H.Rara, S. Elhabian, **Asem M. Ali**, M. Miller, T. Starr, A. Farag, “Distant Face Recognition Based On Sparse Stereo Reconstruction”, International Conference on Image Processing (ICIP), Cairo Egypt, 7 – 10 November, IEEE, pp. 4141 - 4144, 2009.
28. Melih S. Aslan, **Asem M. Ali**, Ham Rara, Ben Arnold , Aly A. Farag, Rachid Fahmi, Ping Xiang , “A Novel 3D Segmentation of Vertebral Bones from Volumetric CT Images Using Graph Cuts”, International Symposium on Visual Computing (ISVC), Las Vegas USA, 30 Nov - 2 Dec, Lecture Notes in Computer Science Springer Berlin Heidelberg, pp. 519-528, 2009.
29. H.Rara, S. Elhabian, **Asem M. Ali**, T. Gault, M. Miller, T. Starr, A. Farag, “A Framework for Long Distance Face Recognition using Dense- and Sparse-Stereo Reconstruction”, International Symposium on Visual Computing (ISVC), Las Vegas USA, 30 Nov - 2 Dec, Lecture Notes in Computer Science Springer Berlin Heidelberg, pp. 774-783, 2009.
30. **Asem M. Ali**, Aly A. Farag, G. L. Gimel'farb, “Optimizing Binary MRFs with Higher Order Cliques”, European Conference on Computer Vision, Marseille France, 12-18 October, Lecture Notes in Computer Science Springer Berlin Heidelberg, pp. 98-111, 2008.
31. **Asem M. Ali**, Aly A. Farag. “A Novel Framework For N-D Multimodal Image Segmentation Using Graph Cuts”, International Conference on Image Processing, (ICIP), San Diego USA, 12 – 15 October, IEEE, pp. 729-732, 2008.
32. **Asem M. Ali**, Aly A. Farag. “Density Estimation Using A New AIC-Type Criterion And The EM Algorithm For A Linear Combination Of Gaussians”, International Conference on Image Processing, (ICIP), San Diego USA, 12 – 15 October, IEEE, pp. 3024-3027, 2008.
33. **Asem M. Ali**, Aly A. Farag. “Automatic Lung Segmentation of Volumetric Low-Dose CT Scans Using Graph Cuts”, International Symposium on Visual Computing (ISVC), Las Vegas USA, 1 - 3 Dec, Lecture Notes in Computer Science Springer Berlin Heidelberg, pp. 258-267, 2008.
34. **Asem M. Ali**, Aly A. Farag, G. L. Gimel'farb, “Analytical Method for MGRF Potts Model Parameters Estimation”, International Conference on Pattern Recognition, (ICPR), Tampa USA, 8-11 Dec., IEEE, pp. 1-4, 2008.
35. **Asem M. Ali**, Ayman S. El-Baz, Aly A. Farag, “A novel framework for accurate lung segmentation using graph cuts”, International Symposium on Biomedical Imaging (ISBI), Arlington USA, 12-15 April, IEEE, pp. 908-911, 2007.

36. **Asem M. Ali**, Ayman S. El-Baz, Aly A. Farag, “Graph Cuts Framework for Kidney Segmentation with Prior Shape Constraints”, International Conference on Medical Image Computing and Computer-Assisted Intervention, (MICCAI), Brisbane Australia, 29 Oct - 2 Nov, Lecture Notes in Computer Science Springer Berlin Heidelberg, pp. 384-392, 2007.
37. **Asem M. Ali**, Aly A. Farag, “Graph Cut Based Segmentation of Multimodal Images”, International Symposium on Signal Processing and Information Technology, (ISSPIT), Cairo Egypt, 15-18 December, IEEE, pp. 1047-1052, 2007.
38. Ayman El-Baz, Aly A. Farag, **Asem M. Ali**, G. L. Gimel'farb, Manuel Casanova, “A Framework for Unsupervised Segmentation of Multi-modal Medical Images”, International Workshop of Computer Vision Approaches to Medical Image Analysis (CVAMIA), Graz Austria, 12 - 13 May, pp.120-131, 2006.
39. Ayman El-Baz, **Asem M. Ali**, A. A. Farag, G. L. Gimel'farb, “A Novel Approach for Image Alignment Using a Markov-Gibbs Appearance Model”, International Conference on Medical Image Computing and Computer-Assisted Intervention, (MICCAI), Copenhagen Denmark, 1 - 6 October, Lecture Notes in Computer Science Springer Berlin Heidelberg, pp. 734-741, 2006.

### **(c) Books/Book Chapters**

1. Melih Aslan, Ahmed Shalaby, **Asem M. Ali**, Aly A. Farag “Model-Based Segmentation, Reconstruction and Analysis of the Vertebral Body from Spinal CT”, Lect. Notes Computational Vision and Biomechanics, Vol. 18, Shuo Li and Jianhua Yao: Spinal Imaging and Image Analysis, pp. 381-437, 2015.

### **(d) Other Publications**

1. **Asem M. Ali**, Aly A. Farag. “Vision-Based Fusion of LADAR Data with Application in Robot Pose Estimation,” Technical Report, University of Louisville, 20 April, CVIP Lab, pp. 1-8, 2006.



## References

### (a) Prof. Aly A. Farag (Ph.D. Dissertation Supervisor)

- **Position:** Professor, Department of Electrical and Computer Engineering University of Louisville, Louisville, KY, USA
  - Director of Computer Vision and Image Processing Laboratory
- **Office:** Lutz Hall, Room 412  
University of Louisville, Louisville, KY, 40292, USA
- **Phone:** +1 (502) 852-7510
- **Fax:** +1 (502) 852-1580
- **e-mail:** [aly.farag@louisville.edu](mailto:aly.farag@louisville.edu)

### (b) Prof. Thomas Starr,

- **Position:** Professor, Chemical Engineering Department, University of Louisville, Louisville, KY, USA
  - Associate Dean for Research & Physical Facilities
- **Office:** J.B. Speed Building, Room 206  
University of Louisville, Louisville, KY, 40292, USA
- **Phone:** +1 (502) 852- 1073
- **Fax:** +1 (502) 852-7033
- **e-mail:** [thomas.starr@louisville.edu](mailto:thomas.starr@louisville.edu)

### (c) Prof. Abdelfattah M. Mohamed (M.Sc. Thesis Supervisor)

- **Position:** Professor, Department of Electrical Engineering, Faculty of Engineering, Assiut University
- **Office:** Electrical Engineering Dept., Room 207  
Faculty of Engineering, Assiut University, Assiut A.R.E., 71516
- **Phone:** +20 (882) 411050
- **Fax:** +20 (882) 332553
- **e-mail:** [afm@aun.edu.eg](mailto:afm@aun.edu.eg)

### (d) Prof. Samia Abdel Fattah Ali Hassan

- **Position:** Professor, Department of Electrical Engineering, Faculty of Engineering, Assiut University
- **Office:** Electrical Engineering Dept., Room 218  
Faculty of Engineering, Assiut University, Assiut A.R.E., 71516
- **Phone:** +20 (882) 411040
- **Fax:** +20 (882) 332553
- **e-mail:** [samya.hassan@eng.au.edu.eg](mailto:samya.hassan@eng.au.edu.eg)

### (e) Dr. Ayman El-Baz

- **Position:** Associate Professor, Department of Bioengineering University of Louisville, Louisville, KY, USA
  - Director of The BioImaging Laboratory
- **Office:** Lutz Hall, Room 423  
University of Louisville, Louisville, KY, 40292, USA
- **Phone:** +1 (502) 852- 5092
- **Fax:** +1 (502) 852- 6806
- **e-mail:** [ayman.elbaz@louisville.edu](mailto:ayman.elbaz@louisville.edu)

### (f) Eng. Wm. Michael Miller

- **Position:** Research Engineering Scientist  
CVIP lab, University of Louisville, Louisville, KY, USA
- **Office:** Lutz Hall, Room 006  
University of Louisville, Louisville, KY, 40292, USA
- **Phone:** +1 (502) 472-5240
- **Fax:** +1 (502) 852-1580
- **e-mail:** [mike.miller@louisville.edu](mailto:mike.miller@louisville.edu)