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Affiliation: Department of Electronics and electrical Communications, Faculty of Electronic Engineering, Menoufia University, Egypt.

Qualifications:

- 1- BSc. in Electrical Communications, Faculty of Electronic Engineering, Menoufia University, May 1998.
- 2- MSc. in Electrical Communications “**Adaptive Multi-Channel Image Restoration**”, Faculty of Electronic Engineering, Menoufia University, 2001.
- 3- PhD. in Electrical Communications “**Super Resolution Reconstruction of Images**”, Faculty of Electronic Engineering, Menoufia University, 2005.

Awards

He has received the most cited paper award from Digital Signal Processing Journal in 2008 for the paper entitled:

“Efficient Implementation of Image Interpolation As An Inverse Problem”

Areas of Interests:

- 1- Image Processing: (Enhancement of old images and images acquired under bad illumination conditions, restoration of degraded images, restoration of degraded and noisy images, multi channel image processing, image interpolation and resizing, super resolution reconstruction of images, color image processing, image watermarking, encryption, and data hiding)
- 2- Signal Processing: (Spectral Estimation, Wavelet Processing, Signal Separation, and Speech Processing).
- 3- Digital Communications (CDMA, OFDM, Dynamic Spectrum Management, Channel Equalization and Channel Estimation)

Other Scientific Activities:

He served as reviewer for scientific papers in the fields of signal and image processing for the IEEE International Symposium of Computers and Communications (ISCC) Alexandria 2004, the Journal of Digital Signal Processing, the Journal Visual Communications and Image Representation, the Journal of Optical Engineering and the Journal of Electronic Imaging. He serves as a supervisor of about 15 MSc. and PhD students.

Books:

1. F. E. Abd El-Samie, Information Security for Automatic Speaker Identification, 1st Edition, Springer, 2011.
2. F. E. Abd El-Samie, M. M. Hadhoud, S. E. El-Khamy, " Image Super-Resolution and Applications" 1st Edition, VDM Publisher, Germany, (Will appear in January 2012).

Journal Publications:

1. S. E. El-Khamy, M. M. Hadhoud, M. I. Dessouky, B. M. Sallam, and F. E. Abd El-Samie, "Efficient Implementation of Image Interpolation As An Inverse Problem," Journal of Digital Signal Processing, Vol. 15, No. 2, pp.137-152, 2005, Elsevier. **(Impact Factor: 1.22, No. of Citations 24)**.
2. S. E. El-Khamy, M. M. Hadhoud, M. I. Dessouky, B. M. Sallam, and F. E. Abd El-Samie, "Adaptive Least Squares Acquisition of High Resolution Images," International Journal of Information Acquisition, Vol. 2, No. 1 , 2005, pp.45-53, World-Scientific.
3. S. E. El-Khamy , M. M. Hadhoud, M. I. Dessouky, B. M. Salam, and F. E. Abd El-Samie, "An Adaptive Cubic Convolution Image Interpolation Approach," International Journal of Machine Graphics & Vision, Vol. 14 , No. 3, 2005, pp.235-256.
4. S. E. El-Khamy, E. M. Saad, M. M. Hadhoud, M. I. Dessouky, A. M. Abbas and F. E. Abd El-Samie, "A Modified Wiener Filter For Multi-Frame Restoration of Blurred and Noisy Images," International Journal of

- Information Acquisition, Vol. 2, No. 2 ,2005, pp. 123-135, World-Scientific.
5. S. E. El-Khamy, M. M. Hadhoud, M. I. Dessouky, B. M. Sallam, and F. E. Abd El-Samie, “Enhanced Wiener Restoration of Images Based on The Haar Wavelet Transform,” International Journal of Information Acquisition, Vol. 2, No. 3, 2005, pp.217-226, World-Scientific.
 6. S. E. El-Khamy, M. M. Hadhoud, M. I. Dessouky, B. M. Salam, and F. E. Abd El-Samie, “Regularized Super-Resolution Reconstruction of Images Using Wavelet Fusion, ” Journal of Optical Engineering, Vol. 44, No.9, 2005, SPIE, (**Impact Factor: 0.815, No. of Citations 7**).
 7. S. E. El-Khamy , M. M. Hadhoud, M. I. Dessouky, B. M. Salam, and F. E. Abd El-Samie, “ Blind multichannel reconstruction of High-Resolution Images Using Wavelet Fusion,” Journal of Applied Optics, Vol. 44, No.34, 2005 , pp.7349-7356, Optical Society of America (OSA) (**Impact Factor: 1.703, No. of Citations 1**).
 8. S. E. El-Khamy , M. M. Hadhoud, M. I. Dessouky, B. M. Salam, and F. E. Abd El-Samie, “ Acquisition of SARSAT Information Using an Auto-Correlation Based Adaptive Line Enhancer,” International Journal of Information Acquisition, Vol. 2, No. 4, 2005, pp.291-302, World-Scientific.
 9. S. E. El-Khamy , M. M. Hadhoud, M. I. Dessouky, B. M. Salam, and F. E. Abd El-Samie, “ Wavelet Fusion: A Tool to Break The Limits on LMMSE Image Super-Resolution,” International Journal of Wavelets,

- Multiresolution and Information Processing, Vol. 4, No. 1, 2006, pp.105-118, World-Scientific. (**Impact Factor: 1.168, No. of Citations 3**)
10. S. E. El-Khamy , M. M. Hadhoud, M. I. Dessouky, B. M. Salam, and F. E. Abd El-Samie, “ A Simple Adaptive Interpolation Approach Based on Varying Image Local Activity Levels,” International Journal of Information Acquisition, Vol. 3, No. 1, 2006, pp.1-8, World-Scientific.
- 11.S. E. El-Khamy , M. M . Hadhoud, M. I. Dessouky, B. M. Salam, and F. E. Abd El-Samie, “A New Approach For Regularized Image Interpolation,” Journal of The Brazilian Computer Society, Vol. 11, No.3 , 2006, pp.65-79.
12. S. E. El-Khamy , M. M. Hadhoud, M. I. Dessouky, B. M. Salam, and F. E. Abd El-Samie, “ A Greatest Common Divisor Approach To Blind Super-Resolution Reconstruction of Images,” Journal of Modern Optics, Vol. 53, No. 8, 2006, Taylor and Francais (**Impact Factor: 1.475, No. of Citations 1**).
- 13.S. E. El-Khamy , M. M. Hadhoud, M. I. Dessouky, B. M. Salam, and F. E. Abd El-Samie, “ Efficient Solutions For Image Interpolation Treated As An Inverse Problem” Journal of Information Science and Engineering, Vol.22, pp. 1569-1583, 2006 (**Impact factor 0.32**).
- 14.S. E. El-Khamy , M. M. Hadhoud, M. I. Dessouky, B. M. Salam, and F. E. Abd El-Samie, “A New Approach For Adaptive Polynomial Based Image Interpolation,” International Journal of Information Acquisition , Vol. 3, No. 2, 2006, pp.139-159, World-Scientific.

15. F. S. Al-Kamali, M. I. Dessouky, B. M. Salam and F. E. Abd El-Samie, " Efficient Implementation of Downlink CDMA Equalization Using Frequency Domain Approximation," Journal of Ubiquitous Computing and Communication, Vol. 2, No. 4, 2007.
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17. S. E. El-Dolil, A. Y. Al-nahari, M. I. Dessouky and F. E. Abd El-Samie, " Dynamic Admission Control and Resource Reservation for WCDMD," Journal of Ubiquitous Computing and Communication, Vol. 2, No. 5, 2007.
18. S. E. El-Dolil, A. Y. Al-nahari, M. I. Dessouky and F. E. Abd El-Samie, "Uplink Power Based Admission Control in Multi-Cell WCDMA Networks With Hetrogeneous Traffic," Progress In Electromagnetics Research B, Vol. 1, pp. 115-134, 2008.
19. F. S. Al-Kamali, M. I. Dessouky, B. M. Salam and F. E. Abd El-Samie, "Frequency Domain Interference Cancellation For Single Carrier Cyclic Prefix CDMA Systems," Progress In Electromagnetics Research B, Vol. 3, pp. 255-269, 2008.
20. H. I. Ashiba, K. H. Awadallah, S. M. El-Halfawy and F. E. Abd El-Samie " Homomorphic Enhancement of Infrared Images Using The Additive Wavelet Transform, " Progress In Electromagnetics Research C, Vol. 1, 123–130, 2008.

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23. M. A. Abd El-Fattah, M. I. Dessouky, S. M. Diab and F. E. Abd El-Samie, "Adaptive Wiener Filtering Approach For Speech Enhancement," Journal of Ubiquitous Computing and Communication, Vol. 3, No. 2, 2008.
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- Reconstruction,” International Journal of Machine Graphics & Vision, Vol. 17, No. 4, pp.235-256, 2008.
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34. I. F. Elashry, O. S. Farag Allah, A. M. Abbas, S. El-Rabaie and F. E. Abd El-Samie, “ Homomorphic Image Encryption,” Journal of Electronic Imaging, Vol. 18, No. 3, 033002, 2009, SPIE (**Impact Factor: 0.506**).
35. E. M. El-Bakary, O. Zahran, S. A. El-Dolil , and F. E. Abd El-Samie, “Chaotic Maps: A Tool To Enhance The Performance of OFDM Systems” International Journal of Communication Networks and Information Security (IJCNIS) Vol. 1, No. 2, pp. 54-58, 2009.
36. S. E. El-Khamy, M. M. Hadhoud, M. I. Dessouky, B. M. Salam, and F. E. Abd El-Samie, “ An Iterative Method For The Evaluation of The Regularization Parameter in Regularized Image Restoration,” International Journal of Computing, Vol. 8, No. 2, pp. 15-23, 2009.
37. H. Kasban, O. Zahran, M. El-Kordy, S. M. Elaraby And F. E. Abd El-Samie, “Landmines Detection Technologies: A Comparative Study,” The Egyptian Journal of Environmental Change, Special Issue: Living with Landscapes, pp. 54-59, October, 2009.
38. E. S. Hassan, S. E. El-Khamy, M. I. Dessouky, S. A. El-Dolil and F. E. Abd El-Samie, “ Peak-to-Average Power Ratio Reduction In space-Time Block Coded Multi-Input Multi-Output Orthogonal Frequency Division Multiplexing Systems Using A Small Overhead Selective Mapping Scheme,” IET Communications, Vol. 3, No. 10, pp. 1667–1674, 2009 (**Impact Factor: 0.963**).

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40. F. E. Abd El-samie, "An efficient singular value decomposition algorithm for digital audio watermarking," *International Journal of Speech Technology*, Vol. 12, No. 1, pp. 27–45, 2009, Springer (**No of Citations 1**).
41. A. Shafik, S. M. Elhalafawy, S. M. Diab, B. M. Sallam and F. E. Abd El-samie, "A Wavelet Based Approach for Speaker Identification from Degraded Speech," *International Journal of Communication Networks and Information Security (IJCNIS)*, Vol. 1, No. 3, pp. 53–60, 2009, (**No. of Citations 2**).
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- Reduction Methods” IET Communications, Vol. 4, No. 1, pp. 69–79, 2010 (**Impact Factor: 0.963**).
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46. H. Hammam, A. Abou Elazm, M. E. Elhalawany, F. E. Abd El-Samie, “Blind separation of audio signals using trigonometric transforms and wavelet denoising,” International Journal of Speech Technology, Vol. 13, No. 1, pp. 1–12, 2010, Springer.
47. H. Kasban , O. Zahran , H. Arafa , M. El-Kordy , S.M.S. Elaraby , F.E. Abd El-Samie, “Laboratory experiments and modeling for industrial radiotracer applications,” Applied Radiation and Isotopes, Vol. 68, No.6, pp. 1049–1056, 2010, Elsevier (**Impact Factor: 0.999, No. of Citations 1**).
48. M. R. Metwalli, A. H. Nasr, O. S. Farag Allah, S. El-Rabaie, F. E. Abd El-Samie, “Satellite Image Fusion Based on Principal Component Analysis and High-Pass Filtering,” Journal of the Optical Society of America A, Vol. 27, No. 6, June, 2010 (**Impact Factor: 1.933**).
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- scheme for wideband-CDMA systems,” *Computers and Electrical Engineering*, Vol. 36, No. 6, pp. 935-947, 2010, Elsevier, **(Impact Factor: 0.484)**.
51. U. S. Khan, W. Al-Nuaimy, F. E. Abd El-Samie, “Detection of landmines and underground utilities from acoustic and GPR images with a cepstral approach,” *Journal of Visual Communications and Image Representation*, Vol. 21, No. 7, pp. 731-740, 2010, Elsevier. **(Impact Factor: 1.071) (No. of Citations 1)**.
52. H. Kasban, O. Zahran, S. M. Elaraby, M. El-Kordy, F. E. Abd El-Samie, “A Comparative Study of Landmine Detection Techniques,” *Journal of Sensing and Imaging*, Vol. 11, No. 3, pp. 89–112, 2010, Springer.
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54. E. Mosa, N.W. Messiha, O. Zahran, F.E. Abd El-Samie, “Encryption of speech signal with multiple secret keys in time and transform domains,” *International Journal of Speech Technology*, Vol. 13, No. 4, pp. 231–242, 2010, Springer.
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80. F. S. Al-kamali, M. I. Dessouky, B. M. Sallam, F. Shawki, and F. E. Abd El-Samie, " Regularized MIMO Equalization for SC-FDMA Systems, " Accepted for publication in the Journal of Circuits, Systems, and Signal Processing, Springer, (**Impact Factor 0.752**).
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