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## C.V



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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, 1<sup>st</sup> Edition, Springer, 2011.
2. F. E. Abd El-Samie, M. M. Hadhoud, S. E. El-Khamy, " Image Super-Resolution and Applications" 1<sup>st</sup> 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.

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