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## **Publications:**

1. A. F. Hassan , E. K. El-Hussainy and B. M. Sallam, “ Modelling of A Spleen Using The Repeated Least Mean Square Method of Estimation”, 1984.
2. B. M. Sallam and S. B. Kesler, “ An Order Only RLS Lattice Algorithm For Adaptive Channel Equalization,” Proc. Of the 30<sup>th</sup> Midwest Symposium on Circuits and Systems pp. 667-670 , Syracuse, New York, USA , August 16-18 , 1987.
3. S. B. Kesler and B. M. Sallam,” Adaptive Equalization For Time Division Multiplex Channels,” Proc. Of the IEEE International Conference on Accoustics Speech and Signal Processing ICASSP pp.1890-1893 , April 11-14 ,New York, USA , 1988.
4. B. M. Sallam and S. B. Kesler,” The Performance Characteristics of The Order Recursive Adaptive Lattice Equalizer,” Proc. Of the 26<sup>th</sup> Allerton Conference on Communications, Control and Computing, Sept. 28-30 Champaign, Urbana, ILL, 1988.
5. B. M. Sallam and S. B. Kesler,” On The Convergence of The Order Recursive adaptive Lattice Equalizer,” Proc. Of the IEEE International Conference on Circuits and Systems ISCAS, 1989.
6. B. M. Sallam and S. B. Kesler,” Comparative Analysis of Two Adaptive LS Equalizer,” Electronic Engineering Bulletin, Faculty of Electronic Engineering , Menouf , Egypt, Vol. 5, Jan. 1993 .
7. B. M. Sallam and S. B. Kesler,” Comparison of Two Modified RLS Lattice Equalizer Under Non-Stationary Environments,” Proc. Of the 31<sup>th</sup> Midwest Symposium on Circuits and Systems, Saint Louis, Missouri, USA , August 1988.
8. B. M. Sallam , Atef Abou El-Azm and T. M. Halim, “ A Package of CAD of digital filter” Proceedings of tenth NRSC , 16-18 Feb. 1993, Cairo, Egypt.

9. Atef Abou El-Azm, B. M. Sallam and T. M. Halim, "Effect of Dynamic Word Length on The Performance of The Digital Filters" *Electronic Engineering Bulletin, Faculty of Electronic Engineering , Menouf , Egypt*, pp.81-89 Jan. 1993 .
10. Atef Abou El-Azm and B. M. Sallam " Statistical Analysis of The Error Propagation in Digital Filter" *Electronic Engineering Bulletin, Faculty of Electronic Engineering , Menouf , Egypt*, pp.42-52, July 1993 .
11. B. M. Sallam, " The Forgetting Factor And The Real Time Implementation of The RLS Lattice Equalizers" In Proc. Of the 24<sup>th</sup> URSI International Conference Koyto, Japan, August 1993.
12. B. M. Sallam, " A generalized Package For Statistical Errors Characterization In Digital Filters" in Proc. The International Conference on Signal Processing Applications And Technology ICSPAT, Santa Clara , California, USA , Sept. 28-Oct.1, 1993.
13. 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," *Proceedings of the URSI National Radio Science Conference (NRSC), Manssoura, Egypt, March 2001.*
14. S. E. El-Khamy, M. M. Hadhoud, M. I. Dessouky, B. M. Salam and F. E. Abd El-Samie, "Sectioned Implementation of Regularized Image Interpolation" *Proceedings of the 46<sup>th</sup> Proceedings of IEEE MWSCAS, Cairo, Egypt, Dec. 2003.*
15. S. E. El-Khamy, M. M. Hadhoud, M. I. Dessouky, B. M. Salam, and F. E. Abd El-Samie, "A New Edge Preserving Pixel-by-Pixel (PBP) Cubic Image Interpolation Approach," *Proceedings of the URSI National Radio Science Conference, NRSC, Cairo, Egypt, March 2004.*

16. S. E. El-Khamy, M. M. Hadhoud, M. I. Dessouky, B. M. Salam, and F. E. Abd El-Samie, "Optimization of Image Interpolation as an Inverse Problem Using The LMMSE Algorithm," Proceedings of the IEEE MELECON, pp. 247-250, Croatia, May, 2004.
17. S. E. El-Khamy, M. M. Hadhoud, M. I. Dessouky, B. M. Salam, and F. E. Abd El-Samie, "A New Super-Resolution Reconstruction Algorithm Based on Wavelet Fusion" Proceedings of the URSI National Radio Science Conference (NRSC), Cairo, Egypt, March 2005.
18. 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, Sciencedirect .
19. 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.
20. 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.
21. 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.
- 22.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.
- 23.S. E. El-Khamy , M. M. Hadhoud, M. I. Dessouky, B. M. Salam, and F. E. Abd El-Samie, “ Blind 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).
24. 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.
25. 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.
26. 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.

- 27.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.
28. 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.
- 29.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.
- 30.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.
31. 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.
32. F. S. Al-Kamali, M. I. Dessouky, B. M. Salam and F. E. Abd El-Samie, " Parallel Interference Cancellation and Linear Equalization for Multirate Downlink CDMA Systems" Proceedings of the International Conference on

Computer Theory and Applications (ICCTA), Alexandria, Egypt, pp. 180- 186, 2007.

- 33.S. E. El-Khamy , M. M. Hadhoud, M. I. Dessouky, B. M. Salam, and F. E. Abd El-Samie, "A Wavelet Based Entropic Approach To High Resolution Image Reconstruction " Accepted for publication in the International Journal of Machine Graphics & Vision.
- 34.F. S. Al-Kamali, M. I. Dessouky, B. M. Salam and F. E. Abd El-Samie, "Performance of Cyclic Prefix Assisted CDMA Systems With Frequency Domain Interference Cancellation" Submitted for Publication in the Journal of Digital Signal Processing, Sciencedirect .