

PUBLICATIONS

Research Papers Published in Refereed Journal:

- J1** S. Chinveeraphan, A. B. C. **Zidouri**, and M. Sato, "Fast Algorithms for Minimum Covering Run Expression," IEICE Trans. Inf. & Syst., Vol.E77--D, no. 3, pp. 317--325, March 1994.

- J2** A. **Zidouri**, S. Chinveeraphan, and M. Sato, "Classification of Compound Document Image Patterns by MCR Stroke Index," IEICE Trans. Inf. & Syst., vol. E78-D, no.3, pp.290--294, March 1995

- J3** S. Chinveeraphan, A. B. C. **Zidouri**, and M. Sato, "Modified Minimum Covering Run Expression of Binary Document Images," IEICE Trans. Inf. & Syst., vol. E78-D, no.4, pp.503--507, April, 1995

- J4** A. **Zidouri**, S. Chinveeraphan, and M. Sato, "Recognition of Machine Printed Arabic Characters and Numerals Based on MCR" IEICE Trans. Inf. & Syst., vol. E78-D, no.12 pp. 1649--1655, Dec. 1995

- J5** A. **Zidouri**, K. Nako, R. Takamatsu, and M. Sato, "A New Character Segmentation Method for Handwritten Documents Based on Multi-scale Analysis", IIEEJ Journal, vol. 24, no. 3, pp. 216--223, March 1995. (In Japanese).

- J6** M. Sarfraz, A. **Zidouri** and S. A. Shahab, "Towards Skew Estimation of Document Images in OCR System", International Journal of Pattern Recognition and Machine Intelligence, International Scientific, Vol. 01(2), 47-56, ISSN 1817-3632, 2006.

- J7** A. **Zidouri**, "ORAN System: a basis for an Arabic OCR", The Arabian Journal for Science and Engineering, King Fahd University of Petroleum and Minerals, Dhahran Saudi Arabia, Vol. 31 -1B, April, 2006.

- J8** K. Mahmood, A. **Zidouri** and A. Zerguine, "Performance analysis of a RLS-based MLP-DFE in time-invariant and time-varying channels" Digital Signal Processing, Volume 18, Issue 3, May (2008) P. 307-320.

- J9** A. Alawami, A. Zerguine, L. Cheded, A. **Zidouri** and W. Saif “A New Modified Particle Swarm Optimization Algorithm for Adaptive Equalization”, Digital Signal Processing, (In Press)
- J10** A. **Zidouri**, “On Multiple Typeface Arabic Script Recognition”, Research Journal of Applied Sciences, Engineering and Technology, Maxwell Science Publication, Volume 2, Issue 5, pp; 428-435, 2010.
- J11** A. **Zidouri**, “Convergence Analysis of a Mixed I2-Ip Adaptive Algorithm”, EURASIP Journal on Advances in Signal Processing, vol. 2010, article ID. 893809.
- J12** M. M. U. Faiz, A. Zerguine and A. **Zidouri**, “The Signed Regressor Least Mean Fourth (SRLMF) Adaptive Algorithm” Eur. J. Adv. Signal Process., vol. 2011, Article ID 373205, pp. 1–12, 2011, doi:10.1155/2011/373205.(2011)
- J13** I. Naveed N. Dahir A. Zerguine and A. **Zidouri** “Adaptive Frequency-Domain RLS DFE for Uplink MIMO SC-FDMA” in IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, vol. PP, issue 99. DOI: 10.1109/TVT.2014.2349955, 2014
- J14** Y. Elarian, R. Abdel-Aal, M. T. Parvez, I. Ahmed, and A. **Zidouri** “Handwriting Synthesis: A Survey” in International Journal of Document Analysis and Recognition (IJ DAR), vol. 17, No. 4, pp: 455-469, 2014
- J15** Y. Elarian, I. Ahmad, S. Awaida, W. Al-khatib, and A. **Zidouri** “An Arabic Handwriting Synthesis System” Pattern Recognition vol. 48 No. 3, pp: 849-861, 2015

Book Chapters:

- BC1** A. **Zidouri**, S. Chinveeraphan, and M. Sato, “Structural Features by MCR Expression Applied to Printed Arabic Character Recognition”, Lecture Notes in Computer Science, Image Analysis and Processing, Springer Berlin/Heidelberg, ISBN: 978-3-540-60298-4, 1995

- BC2 M. Sarfraz, A. **Zidouri** and S. A. Shahab, "A Novel Approach for Skew Estimation of Document Images in OCR System", Computer Graphics, Imaging and Visualization – New Trends, Sarfraz, M., Wang, Y., and Banissi, E. (Eds.), ISBN: 3-7695-2392-7, IEEE Computer Society, USA, 175-180, 2005.
- BC3 M. Sarfraz, A. **Zidouri** and N. Nawaz, "On Offline Arabic Character Recognition", Computer-Aided Intelligent Recognition Techniques and Applications. John Wiley & Sons, Ltd ISBN: 0-470-09414-1, pp: 1-17, 2005.

Conference & Workshop Publications

- C1 A. **Zidouri**, S. Chinveeraphan, and M. Sato, "A Stroke Index For Document Image Analysis Based on The MCR Expression Method," in Proc.MVA'92 IAPR Workshop on Machine Vision Applications, (Tokyo), pp.503--506, Dec.7--9 1992.
- C2 A. **Zidouri**, S. Chinveeraphan, and M. Sato, "Classification of Compound Document Image Patterns by MCR Stroke Index," in Proc. ICDAR'93 2nd Int. Conf. Document Analysis and Recognition, (Tsukuba), pp.753--756, Oct.20--22 1993.
- C3 A. **Zidouri**, S. Chinveeraphan, and M. Sato, "Arabic Character Recognition based on MCR", in Lecture Notes in Computer Science, Image Analysis Applications and Computer Graphics, pp.512-513, Volume 1024/1995. 10.1007/3-540-60697-1.
- C4 S. Chinveeraphan, A. **Zidouri**, and M. Sato, "Stroke Representation by Modified MCR Expression as a Structural Feature for Recognition," in Proc. IWFHR—IV @ 4th Int. Workshop on Frontiers of Handwriting Recognition, (Taipei), pp.11--19, Dec.7--9 1994
- C5 S. Chinveeraphan, A. **Zidouri**, and M. Sato, "Stroke Extraction as a Basis for Structural Analysis of Document Images by Modified MCR Expression," in Proc. MVA'94 IAPR Workshop on Machine Vision Applications, (Tokyo), pp.135--138, Dec.13--15 1994.

- C6 A. **Zidouri**, S. Chinveeraphan, and M. Sato, ``Structural Features by MCR Expression Applied to Printed Arabic Character Recognition" in 8th Int. Conf. on Image Analysis and Processing}, (San Remo Italy), pp.557--562, Sept. 13-15 1995.
- C7 A. **Zidouri**, "A Structural Description of Binary Document Images: Application for Arabic Character Recognition" Proceedings CISST'2001, Las Vegas Nevada, June 25-28, pp: 458-464, 2001
- C8 A. **Zidouri** and M. Sarfraz, "On Optical Character Recognition of Arabic Text", The 6th Saudi Engineering Conference, KFUPM, Dhahran, December 2002, Vol. 4. pp.109-118.
- C9 A. **Zidouri**, "ORAN: Offline Recognition of Arabic characters and Numerals ", International Conference: Sciences of Electronic, Technologies of Information and Telecommunications, Susa, Tunisia, March 17-21, 2003
- C10 A. **Zidouri**, "Powerful Tool for Arabic Document Understanding", The First GCC Industrial Electrical & Electronics Conference. Manama, Bahrain, May 2003
- C11 A. **Zidouri**, M. Deriche, M. Al-Otaibi, M. Al-Shahrani, M. Al-Mutairi, T. Al-Maleki, S. Al-Ghunaim, A. Al-Nutaifi, H. Al-Issa, F. Al-Anazi, "Design of an LED-Based Message Board" IEEE Saudi Arabian Section 10th Technical Exchange Meeting Dhahran, Saudi Arabia, , proceedings on CD Session V, VLSI & Electronics. pp. 1-4, March 23-24 2003
- C12 A. **Zidouri**, M. Sarfraz, S. N. Nawaz, and M. J. Ahmad, "PC Based Offline Arabic Text Recognition System", Seventh International Symposium on Signal Processing and its Applications, PARIS July 2003, France
- C13 M.J. Ahmed, M. Sarfraz, A. **Zidouri** and W.G. Al-Khatib, "License Plate recognition system" ICECS'2003, 10th IEEE International Conference on Electronics, Circuits and Systems 14-17 pp. 898- 901 Vol.2. Dec. 2003 Sharjah, United Arab Emirates
- C14 S. N. Nawaz, M. Sarfraz, A. **Zidouri** and W.G. Al-Khatib, "An approach to Offline Arabic Character Recognition System" ICECS'2003, 10th IEEE International Conference on Electronics, Circuits and Systems 14-17 pp. 1328- 1331 Vol.3. Dec. 2003 Sharjah, United Arab Emirates

- C15 A. **Zidouri**, "ORAN: A basis for an Arabic Character Recognition System" 2004 International Symposium on Intelligent Multimedia, Video & Speech Processing The Hong Kong Polytechnic University Hong Kong October 20-22, 2004
- C16 A. **Zidouri**, "Feature Index for Document Image Analysis" The second GCC Industrial Electrical & Electronics Conference, 23-25 Nov. 2004 Manama, Bahrain
- C17 A. **Zidouri**, M. Sarfraz, S. A. Shahab and S. M. Jafri "Adaptive dissection based subword segmentation of printed Arabic text" The 9th International Conference on Information Visualisation IV'05 6-8 July, London, ISBN ~ ISSN: 1550-6037, 0-7695-2397-8, pp: 239-243, 2005.
- C18 M. Sarfraz, A. **Zidouri**, and S. A. Shahab, "A Novel Approach for Skew Estimation of Document Images in OCR System" IEEE proceedings of the International Conference on Computer Graphics, Imaging and Vision (CGIV'05), ISBN: 0-7695-2392-7, pp: 175-180, 2005.
- C19 A. **Zidouri**, "PCA-based Arabic Character Feature Extraction", ISSPA-2007, Sharjah, UAE, 12-15 February, 2007.
- C20 A. T. Al-Awami, W. Saif, A. Zerguine, A. **Zidouri**, and L. Cheded "Adaptive Equalization Using Particle Swarm Optimization" ISSPA-2007, Sharjah, UAE, 12-15 February, 2007.
- C21 M. Deriche, A. **Zidouri**, "Recognition of GCC License Plates using Template Matching" in Proc. 5th Congress of Scientific Research Outlook & Technology Development in the Arab World (SRO5), Morocco, Nov., 2008.
- C22 A. **Zidouri**, M. Deriche, "Recognition of Arabic License Plates using Neural Networks", in international Workshop on Image Processing Theory, Tools and Applications, IPTA 08, Tunisia, Nov, 2008.
- C23 M. M. U. Faiz, A. Zerguine and A. **Zidouri**, "The Signed Regressor Least Mean Fourth (SRLMF) Adaptive Algorithm" ISSPA'10, May 10-13, pp: 333-336, Kuala Lumpur, Malaysia, 2010.

- C24 A. **Zidouri**, "Convergence Analysis of a Mixed l_2 - l_p Adaptive Algorithm", Proceedings of the 18th European Signal Processing Conference (EUSIPCO-2010) Aalborg, Denmark, August 23-27, pp: 1733-1736, 2010
- C25 A. **Zidouri**, "A Novel Adaptive Scheme for Channel Estimation" The 11th International Conference on Information Sciences, Signal Processing and their Applications, ISSPA'12, July 2-5, pp: 673-676, Montreal (Quebec), Canada, 2012.
- C26 S. Al-Bawri, A. **Zidouri** "Single Base Station Mobile-Based Location Estimation Technique" Proceedings of the 4th International Conference on Computing and Informatics, ICOCI Malaysia, 2013.
- C27 Samir Al-Bawri, Abdelmalek **Zidouri** "Mobile-Based Location Estimation Using Single Base Station" ICWN'13 - The 2013 International Conference on Wireless Networks. Las Vegas, 2013.
- C28 Y. Elarian, A. **Zidouri** and W. Al-khatib "Ground-truth and Metric for the Evaluation of Arabic Handwritten Character Segmentation" 14th International Conference on Frontiers in Handwriting Recognition, Greece, Sept. 2014.
- C29 Y. Elarian, I. Ahmad, S. Awaida, W. Al-Khatib and A. Zidouri. "Arabic Ligatures: Analysis and Application in Text Recognition" 13th IAPR, ICDAR 2015, August, Nancy, France. 2015.