

# List of Publications

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## International Journal Papers

1. Mourad Zaied, Imed Bouchrika, Anil Kumar, **Fouad Slimane**, Ridha Ejbali, "Imaging, Vision, and Pattern Recognition", Applied Computational Intelligence and Soft Computing, Volume 2018, Article ID 1070183, 2018
2. Anis Mezghani, **Fouad Slimane**, Slim Kanoun, Monji Kherallah, "Writing type, script and language identification in heterogeneous documents", International Journal of Intelligent Systems Technologies and Applications (IJISTA), Volume 16, No 3, 2017, pp. 225 - 245.
3. **Fouad Slimane**, Slim Kanoun, Jean Hennebert, Adel M. Alimi, Rolf Ingold, "A Study on Font-Family and Font-Size Recognition Applied to Arabic Word Images at Ultra-Low Resolution", Pattern Recognition Letters (PRL), Volume 34, Issue 2, 2013, pp. 209 - 218.

## Book Chapters

1. **Fouad Slimane**, Christine Vanoirbeek, "Multi-font and Multi-Size Low-resolution Arabic Text recognition using APTI-database", In Document Analysis and Text Recognition: Benchmarking State-of-the-Art Systems", In Series in Machine Perception and Artificial Intelligence (SMPAI) Vol. 82, World Scientific Publishing Co, 2018, pp. 241 - 273.
2. **Fouad Slimane** and Sameh Awaida, "Arabic Writer Identification using AHTID/MW and KHATT Database", In Document Analysis and Text Recognition: Benchmarking State-of-the-Art Systems Series in Machine Perception and Artificial Intelligence (SMPAI) Vol. 82 World Scientific Publishing Co, 2018, pp. 155 - 176.
3. **Fouad Slimane**, Slim Kanoun, Jean Hennebert, Rolf Ingold and Adel M. Alimi, "Benchmarking Strategy for Arabic Screen Rendered Word Recognition", In Haikal El-Abed, and Volker Märgner, Guide to OCR for Arabic Scripts, Springer London, 2012, pp. 423 - 450.

## International Conference Papers

1. **Fouad Slimane**, Rolf Ingold, Jean Hennebert, "ICDAR2017 Competition on Multi-font and Multi-size Digitally Represented Arabic Text". In proc. of 14th IEEE International Conference on Document Analysis and Recognition (ICDAR 2017), Kyoto (Japan), November 13-15, 2017, pp. 1466 - 1472.
2. **Fouad Slimane**, Andrea Mazzei, Orlin Topalov, Greta Verzi, Frederic Kaplan, "A Web-based Tool for Segmentation and Automatic Transcription of Historical Documents". International Joint Conference on Neural Networks (IJCNN 2017), Anchorage, Alaska, (USA), May 14-19, 2017, pp. 2730 - 2737.
3. Faten Kallel Jaïem, **Fouad Slimane**, Monji Kherallah, "Arabic font recognition system applied to different text entity level analysis". International Conference on Smart, Monitored and Controlled Cities (SM2C 2017), Sfax (Tunisia), February 17-19, 2017, pp. 36 - 40.
4. Anis Mezghani, **Fouad Slimane**, Slim Kanoun, Monji Kherallah, "Window-based feature extraction framework for machine-printed/handwritten and Arabic/Latin text discrimination". Proceedings of IEEE 12th International Conference on Intelligent Computer Communication and Processing (ICCP 2016), Cluj-Napoca, (Romania), September 8-10, 2016, pp. 329 - 335.
5. **Fouad Slimane**, Andrea Mazzei, Lorenzo Tomasin, Frederic Kaplan, "Text Line Detection and Transcription Alignment: a Case Study on the Statuti del Doge Tiepolo". Digital Humanities (DH 2015), Sydney, (Australia), 29 June - 3 July 2015.
6. **Fouad Slimane**, Sameh Awaida, Anis Mezghani, Mohammad Tanvir Parvez, Slim Kanoun, Sabri A. Mahmoud, Volker Märgner, "ICFHR2014 Competition on Arabic Writer Identification Using

- AHTID/MW and KHATT Databases". Proceedings of 14th International Conference on Frontiers in Handwriting Recognition (ICFHR 2014), Crete Island (Greece), September 1-4, 2014, pp. 797 - 802.
7. **Fouad Slimane**, Volker Märgner, "A New Text-Independent GMM Writer Identification System Applied to Arabic Handwriting". Proceedings of 14th International Conference on Frontiers in Handwriting Recognition (ICFHR 2014), Crete Island (Greece), September 1-4, 2014, pp. 708 - 713.
  8. **Fouad Slimane**, Torsten Scha an, Volker Märgner, "GMM-based Handwriting Style Identification System for Historical Documents", 5th International Conference of Soft Computing and Pattern Recognition (SoCPaR 2014), Tunis (Tunisia), August 11-14, 2014, pp. 387 - 392.
  9. Anis Mezghani, **Fouad Slimane**, Slim Kanoun, Volker Märgner, "Printed / Handwritten Arabic Script Identification using Local Features and GMMs". 1st International Conference on Information and Communication Technologies Innovations and Applications (ICTIA 2014), Sousse (Tunisia), March 6 - 8 2014.
  10. Anis Mezghani, **Fouad Slimane**, Slim Kanoun, Volker Märgner, "Identification of Arabic/French Handwritten/Printed Words using GMM-Based System". Colloque International Francophone sur l'Ecrit et le Document (CIFED 2014), Nancy (France), March 19 - 21 2014.
  11. **Fouad Slimane**, Angelos Nicolaou, Volker Margner, Marcus Liwicki, "Oriented Local Binary Patterns for Arabic Optical Font Recognition". In proc. of The 11th IAPR International Workshop on Document Analysis Systems (DAS 2014), Tours city (France), April 7-10, 2014, pp. 76 - 80. (*Both authors have contributed equally to the article*).
  12. **Fouad Slimane**, Slim Kanoun, Haikel El-Abed, Adel M. Alimi, Rolf Ingold, Jean Hennebert, "ICDAR2013 Competition on Multi-font and Multi-size Digitally Represented Arabic Text". In proc. of 12th IEEE International Conference on Document Analysis and Recognition (ICDAR 2013), Washington DC (USA), August 25 - 28 2013, pp. 1465 - 1469.
  13. Hao Wei, Micheal Baechler, **Fouad Slimane**, Rolf Ingold, "Evaluation of SVM, MLP and GMM Classifiers for Layout Analysis of Historical Document". In proc. of The twelfth International Conference on Document Analysis and Recognition (ICDAR 2013), Washington DC (USA), August 25-28, 2013, pp. 1252 - 1256.
  14. Mariem Gargouri Kchaou, Slim Kanoun, **Fouad Slimane**, Souhir Bouaziz Affes, "Arabic Character Recognition based on Statistical Features - A Comparative Study". In proc. of 2nd International Conference on Pattern Recognition Applications and Methods (ICPRAM 2013), Barcelona (Spain), February 15-18 2013, to be published.
  15. **Fouad Slimane**, Oussama Zayene, Slim Kanoun, Adel M. ALIMI, Jean Hennebert, Rolf Ingold, "New Features for Complex Arabic Fonts in Cascading Recognition System". In proc. of 21th International Conference on Pattern Recognition (ICPR 2012), Tsukuba (Japan), November 11-15, 2012, pp. 738 - 741.
  16. **Fouad Slimane**, Slim Kanoun, Jean Hennebert, Rolf Ingold, Adel M. Alimi, "A New Base-line Estimation Method Applied to Arabic Word Recognition". In proc. of The 10th IAPR International Workshop on Document Analysis Systems (DAS 2012), Gold Cost, Queensland (Australia), March 27-29 2012.
  17. Oussema Zayene, **Fouad Slimane**, "Reconnaissance de l'écriture arabe imprimée multi fontes a très basse résolution". Journee Jeunes Chercheurs CORIA-CIFED, Bordeaux (France), March 21 - 23 2012, pp. 443 - 448.
  18. **Fouad Slimane**, Slim Kanoun, Haikel El-Abed, Adel M. Alimi, Rolf Ingold, Jean Hennebert, "ICDAR 2011 - Arabic Recognition Competition: Multi-font Multi-size Digitally Represented Text". In proc. of 11th IEEE International Conference on Document Analysis and Recognition (ICDAR 2011), Beijing (China), September 18 - 21 2011, pp. 1449 - 1453.
  19. Houda Gaddour, Hanene Guesmi, **Fouad Slimane**, Slim Kanoun, Jean Hennebert, "A New Method for Ranking of Word Hypotheses generated from OCR: The Application on the Arabic Word Recognition". Proceedings of The Twelfth IAPR Conference on Machine Vision Applications (MVA 2011), Nara (Japan), June 13 - 15 2011, pp. 311 - 315.

20. **Fouad Slimane**, Rolf Ingold, Slim Kanoun, Adel M. Alimi, Jean Hennebert, "Impact of Character Models Choice on Arabic Text Recognition Performance". Proceedings of 12th International Conference on Frontiers in Handwriting Recognition (ICFHR 2010), Kolkata (India), November 16-18, 2010, pp.670 - 675.
21. **Fouad Slimane**, Slim Kanoun, Adel M. Alimi, Jean Hennebert, Rolf Ingold, "Comparison of Global and Cascading Recognition Systems Applied to Multi-font Arabic Text". Proceedings of 10th ACM Symposium on Document Engineering (DocEng 2010), Manchester (United Kingdom), September 21 - 24, 2010, pp. 161 - 164.
22. **Fouad Slimane**, Slim Kanoun, Adel M. Alimi, Rolf Ingold, Jean Hennebert, "Gaussian Mixture Models for Arabic Font Recognition". In proc. of 20th International Conference on Pattern Recognition (ICPR 2010), Istanbul (Turkey), August 23 - 26 2010, pp. 2174 - 2177.
23. **Fouad Slimane**, Slim Kanoun, Jean Hennebert, Adel M. Alimi, Rolf Ingold, "Modèles de Markov Caches et Modèle de Longueur pour la Reconnaissance de l'Écriture Arabe à Basse Résolution." In proc. of MANifestation des JEunes Chercheurs en Sciences et Technologies de l'Information et de la Communication (MajecSTIC 2009), Avignon (France), November 16 - 18 2009
24. Slim Kanoun, **Fouad Slimane**, Hanne Guesmi, Rolf Ingold, Adel M. Alimi, Jean Hennebert, "Affixal Approach versus Analytical Approach for Off-Line Arabic Decomposable Vocabulary Recognition." In proc. of 10th IEEE International Conference on Document Analysis and Recognition (ICDAR 2009), Barcelona (Spain), July 26 - 29 2009, pp. 661 - 665.
25. **Fouad Slimane**, Rolf Ingold, Slim Kanoun, Adel M. Alimi, Jean Hennebert, "A New Arabic Printed Text Image Database and Evaluation Protocols." In proc. of 10th IEEE International Conference on Document Analysis and Recognition (ICDAR 2009), Barcelona (Spain), July 26 - 29 2009, pp. 946 - 950.
26. **Fouad Slimane**, Rolf Ingold, Adel M. Alimi, Jean Hennebert, "Duration Models for Arabic Text Recognition using Hidden Markov Models." In proc. of IEEE International Conference on Computational Intelligence for Modelling, Control and Automation (CIMCA 2008), Vienna (Austria), December 10 - 12 2008, pp. 838 - 843.

## Workshops and Seminars

1. Daniel Fecker, Werner Pantke, **Fouad Slimane**, Bertram Lesser, Torsten Schaßan, "Vom Ze-ichen zur Schrift. Mit Mustererkennung zur automatisierten Schreiberhanderkennung in mittelalterlichen und frauhneuzeitlichen Handschriften", Digital Humanities im deutschsprachigen Raum (DHd 2014), Passau (Germany), March 25 - 28 2014.
2. Andrea Mazzei and **Fouad Slimane**, "Incremental and Off-line Handwriting Recognition for the Venice Time Machine", Consortium of European Research Libraries (CERL), Oslo (Norway), October 28, 2014.

## Technical Reports

1. **Fouad Slimane**, Rolf Ingold, Slim Kanoun, Adel M. Alimi, Jean Hennebert, "Database and Evaluation Protocols for Arabic Printed Text Recognition". Internal Publication of the Department of Informatics, University of Fribourg, February 2009.

## Dissertations

1. **Fouad Slimane**, "A study on printed multi-font and multi-size Arabic word recognition at ultra-low resolution". Ph.D. thesis, University of Fribourg, Switzerland, June 2013.
2. **Fouad Slimane**, "Extraction de la structure de documents à forte variabilité spatiale à l'aide de champs de Markov Caches". Master thesis, University of Rouen, France, July 2005.
3. **Fouad Slimane**, "Contribution à la mise en place d'une interface de surveillance et d'administration du réseau". Engineering thesis, University of Sfax, Tunisia, June 2004.