

1. IDENTITE

Nom, prénom **FARAOUN Kamel Mohamed**
Fonction Enseignant Chercheur
Établissement Université Djilalli Liabbes-Sidi Bel Abbés
Né le 23 Février 1978 à Sidi Bel Abbés (Algérie)
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Google Scholar : <http://scholar.google.fr/citations?user=v2bbuHcAAAAJ&hl=fr&oi=ao>

2. PARCOURS

2015-....	Professeur en informatique
2009 – 2014	Maître de conférences (UDL-FSI, département de mathématiques) Adjoint du Chef de département chargé de la Poste-graduation
2009	Habilitation en informatique option Intelligence artificielle – Département d'informatique –UDL- SBA (Mention très Honorable)
2006	Doctorat en science en informatique option Intelligence artificielle – Département d'informatique-UDL-SBA (Mention très Honorable)
2002	Magister en informatique option Intelligence artificielle- Département d'informatique-UDL-SBA (Mention très Honorable)
1999	Ingénieur d'état en informatique (session de Juin)
1994	BAC en sciences exacts (Mention Assez-bien- Sidi bel abbés)

3. PRINCIPAUX DOMAINES DE RECHERCHE

- Sécurité de l'information
- Cryptographie mathématique et appliqué
- Intelligence Artificielle
- Datamining
- Optimisation et algorithmiques
- Recherche opérationnel et Théorie de l'information

4. RESPONSABILITES SCIENTIFIQUES ET ADMINISTRATIFS

- Adjoint du chef de département chargé de la post-graduation De 31/12/2009 à ce jour.
- Responsable du Master : « Réseaux, systèmes et sécurité de l'information (RSSI) » Du 08/06/2011 à 04/07/2014.
- Responsable du Doctorat LMD : « Réseaux et sécurité de l'information » Du 15/09/2013 à ce jour.
- Chef d'équipe « Réseaux et sécurité de l'information » au sein du laboratoire EEDIS.
- Membre du Laboratoire EEDIS (Evolutionary Engineering and Distributed Information Systems Laboratory). Département d'informatique- UDL Sidi bel abbés

5. ENSEIGNEMENT ET ENCADREMENT

5.1. ENSEIGNEMENT AUX NIVEAUX LICENCE ET MASTER ET DOCTORAT

2007 – 2010	Théorie des Graphes
2010-...	Théorie de l'information et du codage

2009-2010	Recherche opérationnel
2010-....	Cryptographie
2010-2011	Programmation linéaire
2002-2006	Interactions Homme-Machine
2011-2012	Sécurité de l'information
2007-2009	Datamining
2013-...	Cryptographie

Thèses soutenues

17/12/2013	Cryptographie Symétrique des Images Numériques par les Automates Cellulaires (Magister)
11/12/2012	Etude et mise en œuvre d'une approche de cryptage chaotique asymétrique basée sur les polynômes de Tchebychev. (Magister)
16/03/2014	Le routage avec QoS basé sur la communication inter-couche pour les réseaux MANETs. (Doctorat)
15/01/2016	Sécurité est compression de l'information multimédia. (Doctorat)
03/05/2015	Stereo and Multi-view coding extensions of the H.264/AVC standard : from coding to quality of experience (Doctorat)

6. PUBLICATIONS ET COMMUNICATIONS ENTRE 2004 (première publication) ET 2015

2016

1. FARAOUN, Kamel Mohamed. Design of a new efficient and secure multi-secret images sharing scheme. *Multimedia Tools and Applications*, 2016, p. 1-15.
2. SOUYAH, Amina et FARAOUN, Kamel Mohamed. An image encryption scheme combining chaos-memory cellular automata and weighted histogram. *Nonlinear Dynamics*, 2016, vol. 86, no 1, p. 639-653.
3. BAGHOR, Sofiane et FARAOUN, Kamel Mohamed. A Novel Fast and Secure Mutual Remote User Authentication Protocol with Session Key Agreement Using Second Order Cellular Automata. 2016.
4. BENSaid, Chaima, HACENE, Sofiane Boukli, et FARAOUN, Kamel Mohamed. Detection and Ignoring of Blackhole Attack in Vanets Networks. *International Journal of Cloud Applications and Computing (IJCAC)*, 2016, vol. 6, no 2, p. 1-10.

2015

5. SOUYAH, Amina et FARAOUN, Kamel Mohamed. Fast and efficient randomized encryption scheme for digital images based on Quadtree decomposition and reversible memory cellular automata. *Nonlinear Dynamics*, 2015, p. 1-18.
6. BELFEDHAL, Alaa Eddine et FARAOUN, Kamel Mohamed. Building Secure and Fast Cryptographic Hash Functions Using Programmable Cellular Automata. *CIT. Journal of Computing and Information Technology*, 2015, vol. 23, no 4, p. 317-328.
7. BELFEDHAL, Alaa Eddine et FARAOUN, Kamel Mohamed. Fast and Efficient Design of a PCA-Based Hash Function. 2015. *I. J. Computer Network and Information Security*, 2015, vol 6, p.31-38.
8. FARAOUN, Kamel Mohammed. On the semantic security of cellular automata based pseudo-random permutation using results from the Luby-Rackoff construction. *Annales UMCS Sectio AI Informatica*, 2015, vol. 15, no 1, p. 21-31.
9. BEKKOUCH, Souad et FARAOUN, Kamel Mohamed. Robust and Reversible Image Watermarking Scheme Using Combined DCT-DWT-SVD Transforms. *Journal of information processing systems*, 2015, vol. 11, no 3, p. 406-420.

10. ANANI, Djihed et **FARAOUN, Kamel Mohamed**. Designing Robust LMCA-based Threshold Secret Sharing Scheme for Digital Images Using Multiple Configurations Assignment. *Journal of Communications Software & Systems*, 2015, vol. 11, no 2.
11. MOHAMMED, Azza, SOFIANE, Boukli Hacene, et **KAMEL MOHAMED, Faraoun**. A Cross Layer for Detection and Ignoring Black Hole Attack in MANET. *I. J. Computer Network and Information Security*, 2015, vol. 10, p. 42-49

2014

12. **FARAOUN, Kamel Mohamed**. Design of fast one-pass authenticated and randomized encryption schema using reversible cellular automata. *Communications in Nonlinear Science and Numerical Simulation-Elsevier*, 2014, vol. 19, no 9, p. 3136-3148.
13. **FARAOUN Kamel Mohamed**. A genetic strategy to design cellular automata based block ciphers. *Expert Systems with Applications-Elsevier*, December 2014, vol. 41, no 17, 1, p.7958-7967.
14. **FARAOUN, Kamel Mohamed**. Fast encryption of RGB color digital images using a tweakable cellular automaton based schema. *Optics & Laser Technology-Elsevier*, 2014, vol. 64, p. 145-155.
15. FEZZA, Sid Ahmed, LARABI, Mohamed-Chaker, et **FARAOUN, Kamel Mohamed**. Feature-based color correction of multiview video for coding and rendering enhancement. *Circuits and Systems for Video Technology, IEEE Transactions on*, 2014, vol. 24, no 9, p. 1486-1498.
16. **KAMEL MOHAMED, Faraoun**. A parallel block-based encryption schema for digital images using reversible cellular automata. *Engineering Science and Technology, an International Journal- Elsevier*, June 2014, vol. 17, no 2, 2014, p. 85-94.
17. **MOHAMED, Faraoun Kamel**. A novel fast hybrid GCD computation algorithm. *International Journal of Computing Science and Mathematics*, 2014, vol. 5, no 1, p. 37-47.
18. CHERIF, Moussa Ali, **FARAOUN, Mohamed Kamel**, et HACENE, Sofiane Boukli. Link Quality and MAC-Overhead aware Predictive Preemptive Multipath Routing Protocol for Mobile Ad hoc Networks. *Applied Mechanics and Materials*, 2014, vol. 513, p. 812-821.
19. FEZZA, Sid Ahmed, LARABI, Mohamed-Chaker, et **FARAOUN, Kamel Mohamed**. Asymmetric coding using Binocular Just Noticeable Difference and depth information for stereoscopic 3D. In : *Acoustics, Speech and Signal Processing (ICASSP)*, 2014 IEEE International Conference on. IEEE, 2014. p. 880-884.
20. FEZZA, Sid Ahmed, LARABI, Mohamed-Chaker, et **FARAOUN, Kamel Mohamed**. Asymmetric coding of stereoscopic 3D based on perceptual significance. In : *Image Processing (ICIP)*, 2014 IEEE International Conference on. IEEE, 2014. p. 5656-5660.
21. FEZZA, Sid Ahmed, LARABI, Mohamed-Chaker, et **FARAOUN, Kamel Mohamed**. Stereoscopic image quality metric based on local entropy and binocular just noticeable difference. In : *Image Processing (ICIP)*, 2014 IEEE International Conference on. IEEE, 2014. p. 2002-2006.
22. OUAMRI, Mokhtar et **FARAOUN, Kamel Mohamed**. Robust and fast selective encryption for HEVC videos. *Journal of Communications Software & Systems*, 2014, vol. 10, no 4.
23. **FARAOUN, Kamel Mohamed**. A novel fast and provably secure (t, n) -threshold secret sharing construction for digital images. *Journal of Information Security and Applications*, 2014, vol. 19, no 6, p. 331-340.

2013

24. OUDDANE, Samira, FEZZA, Sid Ahmed, et **FARAOUN, Kamel Mohamed**. Stereo image coding: State of the art. In : *Systems, Signal Processing and their Applications (WoSSPA)*, 2013 8th International Workshop on. IEEE, 2013. p. 122-126. Print ISBN : 978-1-4673-5539-1.

25. FEZZA, Sid Ahmed, LARABI, Mohamed-Chaker, **et FARAOUN, Kamel Mohamed**. Coding and rendering enhancement of multi-view video by color correction. In : Visual Information Processing (EUVIP), 2013 4th European Workshop on. IEEE, 2013. p. 166-171. Print ISBN: 978-1-4799-0101-2.

2012

26. **K.M.Faraoun**, Chaotic Exploration of One-Dimensional Cellular Automata With Applications For Cryptography. The Mediterranean Journal of Computers and Networks, ISSN: 1744-2397, Volume 8, No. 3, July 2012.
27. MOUSSA, A. C., **KAMEL, F. M.**, NOUREDDINE, D., et al. Integration of dynamic current bandwidth capacity calculation for existing AODV. In : Information Technology and e-Services (ICITeS), 2012 International Conference on. IEEE, 2012. p. 1-7. Print ISBN : 978-2-4673-1167-0.

2011

28. Sid Ahmed Fezza, **Kamel Mohamed Faraoun**. "New Prediction Structure for Stereoscopic Video Coding Based on the H.264/AVC Standard". Digital Information and Communication Technology and Its Applications - International Conference, DICTAP 2011, Dijon, France, June 21-23, 2011. Proceedings, Part I. p762-769.
29. FEZZA, Sid Ahmed, **FARAOUN, Kamel Mohamed**, et OUDDANE, Samira. A comparison of prediction structures for multi-view video coding based on the H. 264/AVC standard. In : Systems, Signal Processing and their Applications (WOSSPA), 2011 7th International Workshop on. IEEE, 2011. p. 111-114. Print ISBN : 978-1-4577-0689-9.
30. FEZZA, Sid Ahmed et **FARAOUN, Kamel Mohamed**. New Prediction Structure for Stereoscopic Video Coding Based on the H. 264/AVC Standard. In : Digital Information and Communication Technology and Its Applications. Springer Berlin Heidelberg, 2011. p. 762-769. Print ISBN :978-3-642-21983-2.

2010

31. **K.M. Faraoun**, "Chaos-Based Key Stream Generator Based on Multiple Maps Combinations and Its Application to Images Encryption". International Arab Journal of Information Technology. (ISSN: 1683-3198). Vol 7, N°3, July 2010.
32. FEZZA, Sid Ahmed, LARABI, M.-C., et **FARAOUN, Kamel Mohamed**. Stereoscopic video coding based on the H. 264/AVC standard. In Proceeding Machine and Web Intelligence (ICMWI), 2010 International Conference on. IEEE, 2010. p. 476-478. Print ISBN:978-1-4244-8608-3.

2009

33. **K.M.Faraoun**, "A Novel Chaotic Ciphering System for Color Digital Images". Malaysian Journal of Computer Science (ISSN 0127-9084) , Volume 22, No 2 -2009.

2007

34. **K.M. Faraoun** and A. Boukelif. "Genetic Programming Approach for Multi-Category Pattern Classification Applied to Network Intrusions Detection". The International Arab Journal of Information Technology (IAJIT), (ISSN: 1683-3198). Pages: 237-246, Volume 4, Number 3. July 2007.
35. **K.M. Faraoun** and A. Rabhi. "RST Robust Watermarking Schema Based On Image Normalization and DCT Decomposition". Malaysian Journal of Computer Science, (ISSN: 0127-9084). Pages: 77-90, Volume 20, Number 1. June 2007.
36. **K.M. Faraoun** and A. Rabhi. "Data Dimensionality Reduction Based on Genetic Selection of Feature Subsets". INFOCOMP journal of computer sciences, (ISSN: 1807-4545). Pages: 9-19, Volume 6, Number 2. June 2007.
37. **K.M. Faraoun** and A. Rabhi. "A Novel Normalization Based Schema for Digital Images Watermarking" . INFOCOMP journal of computer sciences, (ISSN: 1807-4545). Pages: 17-26, Volume 6, Number 4. December 2007.

2006

38. **K.M. Faraoun** and A. Boukelif. "Securing Network Traffic Using Genetically Evolved Transformations". Malaysian Journal of Computer Science (ISSN 0127-9084), Pages: 9-28. Volume 19, Number 1. August 2006.
39. **K.M. Faraoun** and A. Boukelif. "Genetic Programming Approach for Multi-Category Pattern Classification Applied to Network Intrusions Detection". International Journal of Computational Intelligence and Applications (IJCIA), (ISSN: 1469-0268). Pages: 77-99, Volume 6, Number 1. World scientific publishing (UK) Ltd & Imperial College Press. March 2006.
40. **K.M. Faraoun** and A. Boukelif. "Neural Networks Learning Improvement using the K-Means Clustering Algorithm to Detect Network Intrusions". INFOCOMP journal of computer sciences, (ISSN: 1807-4545). Pages:28-36, Volume 5, Number 3. September 2006.
41. **K.M. Faraoun** and A. Boukelif. «Artificial Immune algorithm for text-dependent speaker recognition ". INFOCOMP journal of computer sciences, (ISSN: 1807-4545). Pages: 19-26, Volume 5, Number 4. December 2006.
42. "Genetic programming approach for multi-category patterns classification applied to network intrusion detection". **K.M. Faraoun** and A. Boukelif. Conférence Internationale sur l'Informatique et ses Applications, CIIA06 15-16. Pages : 20-. Mai 2006, Saïda.

2005

43. **K.M. Faraoun** and A. Boukelif. "Speeding up fractal images compression by genetic coding". Multidimensional Systems and signal processing Journal, (ISSN 0923-6082), Pages: 217-236, Volume 16, Issue 2. Kluwer Academic Publisher, Hingham, MA, USA. April 2005.
44. **K.M. Faraoun**, A. Boukelif. "Optimization of fractal image compression based on genetic algorithms".. SETIT 2005, 3ème Conférence internationale: Sciences Electroniques, Technologies de l'Information et des Télécommunications. Pages 78-89. Mars 2005 Sousse, Tunisie.
45. "Artificial immune systems for text-dependent speaker recognition". **K.M. Faraoun** and A. Boukelif. ICSIT'05. The International Computer Systems & Information Technology Conference by CDTA, IEEE Computer Society & IEEE UK/I R Power Electronics Society. Pages : 475-482. July 2005, Alger, Algérie.

2004

46. **K. M. Faraoun** , A. Boukelif, "Optimising fractal image compression by genetic coding". Second Polytechnic Symposium on Signal Processing, Ecole Nationale Polytechnique, Algiers, ALGERIA, September 15, 2004.

2003

47. **K.M. Faraoun**, A. Lehireche, A. Gafour "Genetic Fractal Image Compression". The ACS/IEEE International Conference on Computer Systems and Applications (AICCSA'03) on July 2003. Paper number: 0-7803-7983-7/03© 2003 IEEE.