# $\label{eq:Curriculum Vitae:Olivier-Fahed ABDALLAH} \\ \text{Married, 46 years, Lebanese-French citizen, Tel:} + 33.7.62162460 \\ \text{olivier.abdallah@liser.lu}$

# PROFESSIONAL POSITIONS

2022 -	Full professor at University of Lorraine, LCOMS laboratory, France.						
2022	Associate Researcher at Luxembourg Institute of Socio-Economic Research (LISER).						
2014 - 2022	Full Professor at the Business Computer Department, Lebanese university, Faculty of Technology.						
2005 - 2015	Associate professor qualified in 2011 for professor positions (4 years validity) from the French Ministry of higher Education and Research, HEUDIASYC Lab UMR CNRS and Computer Science Department at Compiègne University of Technology UTC. Holder of the Scientific Excellence Award (PES), from the Ministry of Higher Education and Research (France).						
2004 - 2005	Post-doc CNRS-France, Lab. HEUDIASYC, UMR CNRS 7253.						
2000 - 2004	Teaching and research fellow. Troyes University of Technology UTT (France).						
DIPLOMAS							
Dec. 2010	HDR degree from UTC-France. Topics cover Belief function theory, bounded error theory, probability theory, Multilabel classification, Sensor fusion, collaborative cameras and Vision applications, Text categorization, video annotation and semantic scene classification, Document filtering, Dynamic systems and state estimate using GPS for mobile localization and map matching, Mobile Ad-hoc sensor NETworks (MANETs) and applications.						
2000 - 2004	<b>Ph.D from UTT in Information Systems</b> . Thesis subject : Reproducing kernels and contrast criteria for machine learning. Supervised by Professors Cédric RICHARD and Régis LENGELLE.						
1999 - 2000	Master's Degree from the Lebanese University in Industrial Control. Master's project at $UTC$ : Quality control of electric engines using current, voltage and vibrations signals. Valedictorian						
1994 - 1999	Engineering degree in electrical and electronics, informatics and telecommunication option. Lebanese University, faculty of engineering. Final year project: Automatization of an electric board using micro-controller (Microchip language). Valedictorian						
1994	High school diploma Major in sciences, Lebanon.						
MISCELLANEOUS							
2016 - 2021	Elected member of the scientific advisory board of the business computer department, Lebanese University, Faculty of Technology.						
2016 - 2021	Member of he scientific advisory board of the Lebanese University, Faculty of Technology.						
2008 - 2011	Elected member of the board of directors (conseil d'administration) of HEUDIASYC Lab.						
2008	Several times: External member of the comity of professor's selection of the USTL university of Lille, and UTT.						
2007 - 2008	Member of the comity of professor's selection of the UTC.						
2008 - 2014	Member of the communication cell of the computer science department and coordinator with industrial partners.						
2000 - 2002	Founder with three other colleagues of ELLIDOC (association which represents the Ph.D students at UTT).						
2001 - 2003	Elected member in ELLIDOC association.						
2005	Board of examiners in several Ph.D's and Master's jury.						
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Reviewer for several selective journals: IEEE Transactions on signal processing, IEEE Special Topics on Signal Processing, IEEE Systems Man and Cybernetic, Journal of Intelligent Information Systems, IEEE communication letters, International Journal of Approximate Reasoning. Reviewer of conferences papers ICRA,

**2004**-

EUSIPCO, GRETSI, ISIAC...

# COMPUTER SKILLS

Languages Matlab, R, Python, Java, Pascal, C, Assembler, Delphi, HTML.

Various UML, Access, Latex, Mplab, Autocad, Codewarrior, EWB, PCB, ORCAD.

# **GENERAL**

Languages English, French, Arabic.

**Hobbies** Football, Ping Pong, swimming.

# TEACHING RESPONSIBILITIES AND ACTIVITIES

2000 - ... Courses, tutorials, or practical teaching for several courses for undergraduate, bachelor, graduate, and master level covering Computer Sciences, Basics of programming languages, Programming with Java, Telecommunications Network, Probability and Applied statistics for engineers (Practical using R), Signal Processing using Matlab and R, Data Mining using Matlab and R, General Mathematics, Calculus, Statistics and Stochastic Processes.

2006 - ... Lecturer in several Master courses covering signal processing, Artificial intelligence and data mining, Real-Time methods for observation, control and diagnosis.

2009- ... Initiator of the "students exchange" convention between UTC and the university of Lancaster (UK).

2006- 2021 Contributing in reforming university curricula at UTC and at LU + creation of new Master formations at LU.

# SUMMARY TABLE FOR TEACHING

This table is an approximation for teaching activity load. Courses were delivered mainly in University of Technology of Compiegne-UTC and Lebaneese University-LU for undergraduate, graduate and master students. Since 2005, I delivered an annual hourly volume greater than 400 hours. Number of Hours is given by year.

Period	Subject	Lectures	Tutorials	Practical
2001-2004	Basics of programming (Pascal Language)	-	2 h	30h
2010-2015	Data Structures and programming (C Language)	-	24h	24h
2003-2004	Principles of Object Oriented Programming (Java) and UML	-	34h	34
2002-2004	Telecommunication Networks	-	24h	30h
2000-2005	Signal Processing (Matlab)	-	-	34h
2016-2017	Advances in Signal Processing	$24\mathrm{h}$	-	-
2005-2006	Elements of probability	-	$34\mathrm{h}$	-
2005-2015	Probability and Statistics for Engineering (R Language)	32h	32h	10h
2015-2021	Probability and Statistics	24h	24h	-
2000-2004	$\operatorname{Calculus}$	-	34h	-
2015-2016	Fundamental Concepts of calculus and differential equations	30h	-	-
2008-2021	Decision Theory and machine learning	24h	-	-
2008-2015	Machine learning (R Language)	32h	32h	32h
2016-2021	Advanced Statistics and application to business	20h	20h	-
2010-2015	Data Mining (R Language)	16h	32h	32h
2013-2021	Data knowledge discovery	24h		-
2006	Real-Time Methods for Observation, Control and Diagnosis	4h	-	-

#### RESEARCH KEYWORDS

- Belief functions Theory, Bounded Errors Theory, Probability Theory.
- Collaborative Data Fusion, Bayesian Networks, Non-Parametric Belief Propagation (NBP).
- Mobile ad-hoc Sensors Network (MANET)
- Machine Learning, Data mining.
- Signal Processing, Statistical Methods.

- Classification, Multi-Label Classification, Multi-View Classification, Regression, Features Extraction.
- Clustering, Multi-View clustering.
- Deep Learning, Neural network.

2005-2007

- Multi-label Classification for land use prediction (Application to Luxembourg and Greater Region).
- Air pollution with high spatial and temporal resolution (Application to Luxembourg and the Greater Region).
- Support Vector machines (SVM), Kenel methods (KFD, KPCA...): Optimization of Hyperparameters on Symmetric Positive-Definite Matrices Manifold.
- Image Processing and Computer Vision: Clustering, Tracking, and Features Extraction.
- Association rules and Recommendation Systems in Machine Learning.
- Extended Kalman Filter (EKF), Particle Filter (PF), Unscented Kalman Filter (UKF), Box Particle Filter (BPF), Sum of Gaussians filtering, nonlinear/non-Gaussian Bayesian state estimation.
- Interacting Multiple Models (IMM), Map Matching (MM), GPS and Odometric Models.

#### RESEARCH PROJECTS

At UTC and LU (Lebanese University) Member and/or PI of several European, French and Lebanese projects of different funding types.

2019-2022	LU Project : Deep machine learning for real applications with large databases.
2020-2021	LU Project : Automated Detection and Patient Monitoring of Covid-19 using Machine Learning on X-ray images.
2016-2018	LU Project : Person re-identification for Surveillance Applications.
2012	Quality control of a lifting gear maxchine (direct funding with the CETIM : Centre Technique des Industries Mécaniques-Senlis France).
2008-2012	Scientific responsibility of the DIAPA project (ANR): project of a Budget of 3 Million Euros covering automobile's log-files diagnosis with industrial Partners: PSA Peugeot-Citroen, Delphi, Freescale.
2010-2012	Carnot Project : Signal processing and state estimation in collaborative sensor networks.
2008-2012	PERCOIVE project (ANR) : inter-vehicles cooperative environment-perception for roads security.
2003-2005	BODEGA project (CNRS ROBEA program) : Autonomous navigation in urban environment.
2004-2007	MOBIVIP Project (PREDIT national project) : Mobility of vehicles using perception information of environment.

# RESEARCH SUPERVISING ACTIVITIES

CVIS project: Cooperative Vehicles and Infrastructure Systems.

2021 -2024	Co-supervisor of the Ph.D of Tala Abdallah (30%) with Nisrine Jrad, Anne Heurtier and Patrick Van Bogaert (Université Catholique de l'Ouest-Angers, and LARIS laboratory) Subject : Deep Learning for Automatic Seizure Detection from EEG signals.
2020 -2023	Co-supervisor of the Ph.D of Marie Njaime (50%) with Hichem Snoussi. Subject: Extraction of nonlinear features for object tracking and classification.
2020 -2023	Co-supervisor of the Ph.D of Sally Hajjar (50%) with Fadi Dornaika (Ikerbasque Research Professor). Subject : Multi-view Clustering via a Kernelized Graph and Nonnegative Embedding
2018 -2021	Co-supervisor of the Ph.D of Rosana El Jurdi (30%) with Caroline Petitjean and Paul Honeine (University of Rouen). Subject: Weakly Supervised Learning for Medical Image Segmentation of Thoracic Organs at Risk.

- 2017 -2020 Co-supervisor of the Ph.D of Mohamed Mroueh (50%) with Farah Chehade (UTT). Subject: Evidential single and multi-label classification: Application to the detection of cardiovascular diseases.
- 2016 -2020 Co-supervisor of the Ph.D of Joanna Akrouche (50%) with Mohamed Sallak (UTC). Subject : Optimization of the Availability of Multi-States Systems under Uncertainty.
- 2014 -2017 Co-supervisor of the Ph.D of Charbel Chahla (30%) with Hichem Snoussi and Fadi Dornaika (Ikerbasque Research Professor). Subject: Non-linear feature extraction for object re-identification in cameras networks.
- 2012 -2015 Co-supervisor of the Ph.D of Hiba Haj Chehade (30%) With Amadou Gning and Imad Mougharbel (LU). Subject: Data Fusion and Collaborative State Estimation in Wireless Sensor Networks.

- 2010 -2013 Co-supervisor of the Ph.D of Sawsan Kanj (50%) with Thierry Denoeux. Subject: Multi-label learning with imprecise data labels. Application to document filtering and classification.
- 2010 -2013 Co-supervisor of the Ph.D of Lei Qin (50%) with Hichem Snoussi. Subject: Data fusion for collaborative cameras in sensor networks. Computer Vision Applications.
- 2010 -2011 Post-Doc Supervisor (100%) of Hicham Laanaya. Subject: Learning General Gaussian Kernel Hyperparameters for Support Vector Machines using Optimization on Symmetric Positive-Definite Matrices Manifold.
- 2010 -2011 Post-Doc Supervisor of Salim Bouzebda (50%) with Thierry Denoeux. Subject: Theoretical properties of maximum likelihood estimation from evidential data.
- 2007 -2010 Co-supervisor of the Ph.D of Farah Mourad (30%) with Cedric Richard and Hichem Snoussi. Subject: Localization and tracking in Mobile Ad-hoc sensor NETworks (MANETs)
- 2007 2010 Co-supervisor of the Ph.D of Zoulficar Younes (50%) with Thierry Denoeux. Subject: Data mining and learning in multi-label classification. Application to text categorization, video annotation and semantic scene classification.
- 2006 -2009 Co-supervisor of the Ph.D of Ghalia (50%) Nassreddine with Thierry Denoeux. Subject: State estimation using belief function theory; Application to Robot localization and map matching using GPS.
- 2005 ... Supervisor of more than 20 Master projects at the computer science department, UTC-France, and the Lebanese University.
- 2016 2021 Supervisor of several final year projects for undergraduate students at the Faculty of technology, mainly working on the creation of websites (Camping website, Restaurant website, hotel website...)

#### **PUBLICATIONS**

#### BOOK CHAPTER

— Amadou Gning, Lyudmila Mihaylova, Fahed Abdallah, Branko Ristic. Particle Filtering Combined with Interval Methods for Tracking Applications. In: Integrated Tracking, Classification, and Sensor Management: Theory and Applications. Editors: Mahendra Mallick, Vikram Krishnamurthy, Ba-Ngu Vo. ISBN: 978-0-470-63905-4, Wiley-IEEE Press, 2012.

#### SUBMITTED INTERNATIONAL JOURNALS

- - Mroueh, M., Mourad Chehade, F., Abdallah, F. (2021), CoLEx: A Correlation based multi label ensemble classifier with Labelsets optimized by an Exchange strategy, Submitted to International Journal of Pattern Recognition and Artificial Intelligence., Impact factor arround 1.375
  - Mroueh, M., Mourad Chehade, F., Abdallah, F. (2021), Prediction of Atrial Fibrillation Episode from physiological signals using belief functions theory, Submitted to Computer Methods and Programs in Biomedicine (second revision)., Impact factor arround 3.6

# INTERNATIONAL JOURNALS (31, MOST ARE Q1, APPROXIMATE VALUE OF THE IMPACT FACTOR IS GIVEN FOR SOME JOURNALS ACCORDING TO A VARIABLE DATE)

- S. El Hajjar, F. Dornaika, F. Abdallah, and Barrena N, Consensus graph and spectral representation for one-step multi-view kernel based clustering, Knowledge-Based Systems 241 (2022) 108250, Impact factor arround 8
  - S. El Hajjar, F. Dornaika, F. Abdallah, One-step Multi-view Spectral Clustering with Cluster Label Correlation Graph, Information Sciences 592 (2022) 97-111, Impact factor arround 7
  - S. El Hajjar, F. Dornaika, F. Abdallah, Multi-view Spectral Clustering via Constrained Nonnegative Embedding, Information Fusion, Volume 78, 209-217, 2022, Impact factor arround arround 13.7
  - Mohamed Sallak, Joanna Akrouche, Eric Châtelet, Fahed Abdallah, Hiba Hajj Chehade, Methodology for the Assessment of Imprecise Multi-State System Availability, Mathematics, MDPI, 2022, 10 (1), pp.150, 10.3390/math10010150, Impact factor arround 2.2

- R. EL Jurdi, C. Petitjean, P. Honeine, V. Cheplygina, and F. Abdallah, *High-Level Prior-Based Loss Functions for Medical Image Segmentation : A Survey.*, Computer Vision and Image Understanding, Volume 210, September 2021, 103248., **Impact factor : 3.109**
- Mohamed Sallak, Joanna Akrouche, Eric Châtelet, Fahed Abdallah, Hiba Haj Chhade, An Interval Approach for the Availability Optimization of Multi-State Systems in the Presence of Aleatory and Epistemic Uncertainties, ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering, American Society of Mechanical Engineers (ASME), 10.1115/1.4052461, 2021, Impact factor arround 1.5
- R. EL Jurdi, C. Petitjean, P. Honeine, and F. Abdallah, CoordConv-Unet: Investigat- ing CoordConv for Organ Segmentation, In Innovation and Research in BioMedical engineering (IRBM) 2021, Impact factor: 1.070
- R. El Jurdi, C. Petitjean, P. Honeine, and F. Abdallah, Bb-unet: U-net withbounding box prior, IEEE Journal of Selected Topics in Signal Processing, 14(2):234-239,2020. Impact factor: 4.981
- Chahla, C.; Snoussi, H.; Abdallah, F.; Dornaika, F., Learned versus Handcrafted Features for Person Re-identification, International Journal of Pattern Recognition and Artificial Intelligence, Vol. 34, No. 04, 2055009 (2020). Impact factor arround 1.375
- Charif O., Omrani H., Abdallah F., Pijanowski B., A Multi-Label Cellular Automata Model for Land Change Simulation, Transactions in GIS, 21(6): 1298-1320 (2017). Last 5 years impact factor arround 3
- Omrani H., Abdallah F., Tayyebi A., Pijanowski B., Modeling land-use change with dependence among labels, Journal of Environmental Informatics, Vol 30, Issue 2 (December 2017). Last 5 years impact factor arround 5
- Chahla, C.; Snoussi, H.; Abdallah, F.; Dornaika, F., Discriminant quaternion local binary pattern embedding for person re-identification through prototype formation and color categorization, Engineering Applications of Artificial Intelligence, Volume 58, February 2017, Pages 27-33, Last 5 years impact factor: 1.7
- Dornaika, F.; Chahla, C.; Khattar, F.; Abdallah, F.; Snoussi, H., Discriminant sparse label-sensitive embedding: Application to image-based face pose estimation, Engineering Applications of Artificial Intelligence, Volume 50, April 2016, Pages 168-176, Last 5 years impact factor: 1.7
- OMRANI Hichem, ABDALLAH Fahed, CHARIF Omar, LONGFORD Nicholas Tibor, Multi-label class assignment in land-use modelling, International Journal of Geographical Information Science, 29(6), 1023-1041, 2015. Last 5 years impact factor: 2.8
- Sawsan Kanj, Fahed Abdallah, Thierry Denoeux, Kifah Tout, Editing training data for multi-label classification with the k-nearest neighbor rule, In Pattern Analysis and Applications, First online: 07 February 2015, Last 5 years impact factor: 0.9.
- H. Haj Chhadé, F. Abdallah, I. Mougharbel, A. Gning, S. Julier and L. Mihaylova, Localisation of an Unknown Number of Land Mines Using a Network of Vapour Detectors, In Sensors, Volume 14, Issue 11, Pages 21000-21022, 2014. Last 5 years impact factor: 1.8
- Hiba Haj Chhadé, Amadou Gning, Fahed Abdallah, Imad Mougharbel and Simon Julier, Non Parametric Distributed Inference In Sensor Networks using Box Particles Messages, In journal of Mathematics in Computer Science, Volume 8, Issue 3-4, Pages 455-478, 2014. impact factor around 0.7
- Lei Qin, Hichem Snoussi and Fahed Abdallah, Object Tracking Using Adaptive Covariance Descriptor and Clustering-Based Model Updating for Visual Surveillance, Sensors, 14(6), 9380-9407;2014. Last 5 years impact factor: 1.8
- Amadou Gning, Branko Ristic, Lyudmila Mihaylova, and Fahed Abdallah, An introduction to box particle filtering, IEEE Signal Process. Mag., 30(4):166-171, 2013. Last 5 years impact factor: 6
- H. Laanaya, F. Abdallah, H. Snoussi, C. Richard, Learning General Gaussian Kernel Hyperparameters using Optimization on Symmetric Positive-Definite Matrices Manifold, Pattern Recognition Letters, Volume 32, Issue 13, ,Pages 1511-1515, October 2011. Last 5 years impact factor: 1.897

- F. Mourad, H. Snoussi, F. Abdallah, C. Richard, A robust localization algorithm for mobile sensors using belief functions, IEEE Transactions on Vehicular Technology, Volume 60, Issue 4, Pages 1799-1811, 2011. Last 5 years impact factor: 1.824
- F. Abdallah, G. Nassreddine and T. Denoeux, A Multiple-Hypothesis Map-Matching Method Suitable for Weighted and Box-Shaped State Estimation for Localization, In IEEE Transactions on ITS, Volume 12, Issue 4, Pages 1495-1510, 2011. Last 5 years impact factor: 2.766
- Z. Younes, F. Abdallah, T. Denoeux and Hichem Snoussi, A Dependent Multilabel Classification Method Derived from the k-Nearest Neighbor Rule, EURASIP Journal on Advances in Signal Processing, vol. 2011, Article ID 645964, 14 pages. doi:10.1155/2011/645964, 2011. Last 5 years impact factor: 1.169
- T. Denoeux, Z. Younes and F. Abdallah, Representing uncertainty on set-valued variables using belief functions, Artificial Intelligence, Vol. 174, Issues 7-8, pages 479-499, 2010. Last 5 years impact factor: 3.119
- G. Nassreddine, F. Abdallah and T. Denoeux, State estimation using interval analysis and belief function theory: Application to dynamic vehicle localization, IEEE Transactions on Systems, Man and Cybernetics B, vol. 40, Issue 5, pages 1205-1218, 2010.

  Last 5 years impact factor: 3.274
- F. Mourad, H. Snoussi, F. Abdallah, C. Richard, Anchor-based localization via interval analysis for mobile ad-hoc sensor networks, IEEE transactions on signal processing, Vol 57/8 pp 3226-3239, 2009. Last 5 years impact factor: 2.968
- F. Abdallah, A. Gning, P. Bonnifait, Box Particle Filtering for non Linear State Estimation using Interval Analysis, Automatica, Vol 44/3 pp 807-815, 2008. Last 5 years impact factor: 2.77
- F. Abdallah, C. Richard, R. Lengelle, An improved training algorithm for nonlinear kernel discriminants, IEEE transactions on signal processing, vol.52, n° 10, p. 2798-2806, 2004. Last 5 years impact factor: 2.968
- C. Richard, F. Abdallah, R. Lengelle, Algorithmes séquentiels pour l'analyse de données par méthodes à noyau, Traitement du signal (TS), vol.21, n° 2, p. 97-108, 2004.
- F. Abdallah, C. Richard, R. Lengelle, Second-order measures of quality for binary classification: a critical overview and their use for nonlinear receivers design, International journal of smart engineering system design, vol.5, n° 4, p. 389-399, 2003.
- C. Richard, R. Lengelle, F. Abdallah, Bayes-optimal detectors using relevant second-order criteria, IEEE Signal Processing Letters vol. 9, no. 1, p.32-33, 2002. Last 5 years impact factor: 1.545

#### CONFERENCE ARTICLES

- R. El Jurdi, C. Petitjean, P. Honeine, V. Cheplygina, and F. Abdallah, A surprisingly effective perimeter-based loss for medical image segmentation, in Proceedings of the Medical Imaging with Deep Learning conference (MIDL), Lubeck, Germany, 7 9
  July 2021
  - R. El Jurdi, T. Dargent, C. Petitjean, P. Honeine, and F. Abdallah, *Investigating coord-conv for fully and weakly supervised medical image segmentation*, in Proceedings of the 10th International Conference on Image Processing Theory, Tools and Applications (IPTA), Paris, France, 9 12 Nov. 2020
  - Mroueh, M., Mourad Chehade, F. and Abdallah, F., Evidential prediction of atrial fibrillation with rejection, in Smart Health International Conference (SHeIC'20), 30 September-2 October, 2020, Troyes, France.
  - Mroueh, M., Mourad Chehade, F. and Abdallah, F., Atrial fibrillation predictor with reject option using belief functions theory, in IEEE International Symposium on Medical Measurements and Applications (IEEE MEMEA'20), 1-3 June, 2020, Bari, Italy
  - Mroueh, M., Mourad Chehade, F. and Abdallah, F., Multi label classification and evidential approach in diseases diagnoses u sing physiological signals, in IEEE Middle East and Africa Conference on Biomedical Engineering (IEEE MECBME'20), 27 29 October, 2020, Amman, Jordan

- R. El Jurdi, C. Petitjean, P. Honeine, and F. Abdallah, Organ segmentation in CT images with weak annotations: A preliminary study, in Proceedings of the 27th GRETSI Symposium on Signal and Image Processing, Lille, France, 26 29 Aug. 2019
- Mroueh, M., Mourad Chehade, F. and Abdallah, F., Evidence based prediction of Atrial Fibrillation using physiological signals, in IEEE International Conference on Bio engineering for Smart Technologies (IEEE BioSMART'19), 24-26 April, 2019, Paris, France
- Mroueh, M., Mourad Chehade, F. and Abdallah, F., Prédiction de la fibrillation atriale à l'aide des signaux physiologiques, in Journées d'Etude sur la TéléSanté (Jetsan'19), 23-24 May, 2019, Paris, France
- Joanna Akrouche, Mohamed Sallak, Eric Chatelet, Fahed Abdallah, Hiba Haj Chhadé, Methodology for imprecise availability computing and optimization, 29th European Safety and Reliability Conference (ESREL 2019), pp.2440-2446, Sep 2019, Hannover, Germany
- Joanna Akrouche, Mohamed Sallak, Eric Chatelet, Fahed Abdallah, Hiba Haj Chhadé, New method for availability computing of complex systems using imprecise Markov models, 10th IMA International Conference on Modelling in Industrial Maintenance and Reliability (MIMAR 2018), 2018, Liverpool, United Kingdom
- Joanna Akrouche, Mohamed Sallak, Eric Chatelet, Fahed Abdallah, Hiba Haj Chhadé, A contribution to the evaluation of imprecise availability of complex systems using markov models, 2nd International Conference on Uncertainty Quantification in Computational Sciences and Engineering (UNECOMP 2017), pp.456-466, Jun 2017, Rhodes Island, Greece
- C Chahla, F Dornaika, F Abdallah, H Snoussi, Sparse feature extraction for model-less robust face pose estimation, Sensors Networks Smart and Emerging Technologies (SENSET 2017), Beirut-Lebanon 2017
- C Chahla, H Snoussi, F Abdallah, F Dornaika, Exploiting color cues to improve person re-identification, 7th International Conference on Imaging for Crime Detection and Prevention (ICDP'2016)., Madrid-Spain 2016
- H. Haj Chhadé, F. Abdallah, I. Mougharbel and H. Ghaziri, New approach for Landmine Localization Using Wireless Biosensors, 20th LAAS International Science Conference (LAAS'14), Lebanon, March 2014.
- H. Haj Chhadé, F. Abdallah, I. Mougharbel, A. Gning, L. Mihaylova and S. Julier, *Multiple land mines localization using a wireless sensor network*, In Proc of the 17th International Conference on Information Fusion, pages 1-7, Salamanca, July 2014.
- L. Qin, H. Snoussi, and F. Abdallah, Adaptive covariance matrix for object region representation, in Proc. Fifth International Conference on Digital Image Processing (ICDIP 2013), Y. Wang and X. Yi, Eds., vol. 8878. SPIE, July 2013.
- Lei Qin, Hichem Snoussi, Fahed Abdallah, Cascaded Generative and Discriminative Learning for Visual Tracking, 10th International Conference on Image Analysis and Recognition ICIAR 2013, Povoa do Varzim, Portugal, June 26-28, 2013, volume 7950 of Lecture Notes in Computer Science, pages 397-406. Springer, 2013.
- L. Qin, F. Abdallah, and H. Snoussi, Adaptive covariance tracking with clustering-based model update, in The 2012 International Conference on Image Processing, Computer Vision, and Pattern Recognition, Las Vegas, USA, July 2012.
- Kanj, S., Abdallah, F., and Denoeux, T., Evidential Multi-label Classification Using the Random k-Label Sets Approach, In Proceedings of the 2nd Int. Conf. on Belief Functions, (Compiègne, France, 2012), Springer, AISC 164, pp. 21-28.
- Kanj, S., Abdallah, F., and Denoeux, T., La méthode RAkEL évidentielle pour la classification multi-label, In Rencontres Francophones sur la Logique Floue et ses Applications (LFA 2012) (Compiègne, France, 2012), Cépaduès- Editions, pp. 185-192.
- Kanj, S., Abdallah, F., and Denoeux, T., Purifying training data to improve performance of multi-label classification algorithms, In Proceedings of the 15th Int. Conf. on Information Fusion (FUSION 2012) (Singapore, 2012), IEEE, pp. 1784-1792.
- Dandach, H. and Abdallah, F. and De Miras, J. and Charara, A., Vehicle dynamics estimation using Box Particle Filter, Twelfth International Conference on Control, Automation, Robotics and Vision, Guangzhou, Chine, pp. 118-123, 6 pages, Dec. 2012.

- A. Gning, L. Mihaylova, F. Abdallah, Mixture of Uniform Probability Density Functions for non Linear State Estimation using Interval Analysis, Fusion 2010, EICC Edinburgh, UK, 26-29 July 2010.
- Z. Younes, F. Abdallah and T. Denoeux, Fuzzy Multi-Label Learning Under Veristic Variables, Proceedings of the FUZZ-IEEE'10, Barcelona, Spain, July 18-23, 2010.
- Z. Younes, F. Abdallah and T. Denoeux, Evidential multi-label classification approach to learning from data with imprecise labels, IPMU 2010, Dortmund, Germany, June 28 July 02, 2010.
- Z. Younes, F. Abdallah and T. Denoeux, An Evidence-Theoretic k-Nearest Neighbor Rule for Multi-Label Classification, SUM 2009, Washington DC, USA, pp. 297-308, Springer-Verlag, September 28-3, 2009.
- G. Nassreddine, F. Abdallah and T. Denoeux, A state estimation method for multiple model systems using belief function theory, Fusion 2009, Seattle, Washington, USA, 6-9 Juillet 2009.
- G. Nassreddine, F. Abdallah and T. Denoeux, A New Method for State Estimation of Dynamic System Based on Dempster Shafer Theory, Actea 2009, Beirut, Lebanon, 15-17 Juillet 2009.
- F. Mourad, H. Snoussi, F. Abdallah, C. Richard, Model-free interval-based localization in MANETs, IEEE DSP'09, January, 2009.
- G. Nassreddine, F. Abdallah and T. Denoeux, Map Matchinh algorithm using interval analysis and Dempster-Shafer theory, IEEE Intelligent Vehicle Symposium (IV'09), Xian, Shaanxi, China, 3-5 June 2009.
- F. Mourad, H. Snoussi, F. Abdallah, C. Richard, Guaranteed Boxed Localization in MANETs by Interval Analysis and Constraints Propagation Techniques, IEEE GLOBECOM, December 2008.
- Z. Younes, F. Abdallah and T. Denoeux, Multi-label classification algorithm derived from K-nearest neighbor rule with label dependencies, the 16th European Signal Processing Conference (EUSIPCO 08), Lausanne, Switzerland, August 25-29, 2008.
- G. Nassreddine, F. Abdallah and T. Denoeux, Map matching algorithm using belief function theory, Fusion 2008, Cologne, Germany, 31 Juin-3 Juillet 2008.
- A. Gning, F. Abdallah, P. Bonnifait, A new estimation method for multisensor fusion by using interval analysis and particle filtering, IEEE International Conference on Robotics and Automation (ICRA 07), Roma, April 2007.
- F. Abdallah, A. Gning, P. Bonnifait, Adapting particle filter on interval data for dynamic state estimation, IEEE Int. Conf. on Acoustics, Speech, and Signal Processing (ICASSP 07), April 15-20, Hawaii, USA, 2007.
- F. Abdallah, P. Bonnifait, A. Gning, A Particle Filter on Interval Data for Mobile Localization, Workshop of IntCP05 Interval analysis, constraint propagation, applications. Sitges, Espagne, 2005.
- F. Abdallah, C. Richard, R. Lengelle, A sequential approach for multi-class Discriminant Analysis with kernels, Proc. IEEE International conference ICASSP, Montreal, Canada, 2004
- F. Abdallah, C. Richard, R. Lengelle, Kernel second-order discriminants versus support vector machines, Proc. IEEE International workshop on Neural Networks for Signal Processing (NNSP), Toulouse, France 17-19 September, 2003.
- F. Abdallah, C. Richard, R. Lengelle, Kernel second-order discriminants versus support vector machines, Proc. IEEE International conference ICASSP, Hong Kong, 2003.
- F. Abdallah, C. Richard, R. Lengelle, A method for designing nonlinear kernel-based discriminant functions from the class of second-order criteria, Proc. International Conference Asilomar, Pacific Grove, CA, 2002.
- F. Abdallah, C. Richard, R. Lengelle, On virtues and vices of second-order measures of quality for binary classification, International Conference Annie, Saint Louis, 2002.

-	- F. Abdallah, C. Richard, R. Lengelle, On equivalence between detectors obtained from second-order measures of	of performance
	Proc. European Signal Processing Conference, Eusipco'02, Toulouse, 2002.	