

Chokri BEN AMAR
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CURRICULUM VITAE



▼ BIOGRAPHY

Chokri BEN AMAR received the B.S. degree in Electrical Engineering from the National Engineering School of Sfax (ENIS) in 1989, the M.S. and PhD degrees in Computer Engineering from the National Institute of Applied Sciences in Lyon, France, in 1990 and 1994, respectively. He spent one year at the University of "Haute Savoie" (France) as a teaching assistant and researcher before joining the higher School of Sciences and Techniques of Tunis (ESSTT) as Assistant Professor in 1995. In 1999, he joined the Sfax University (USS), where he is currently a professor in the Department of Electrical Engineering of the National Engineering School of Sfax. His research interests include Computer Vision and Image and video analysis. These research activities are centered on Wavelets and Wavelet networks and their applications to data Classification and approximation, Pattern Recognition and image and video coding, indexing and watermarking.

He is a senior member of IEEE since 2008. He founded the IEEE Signal Processing Society (SPS) Tunisia Chapter on January 2009, and he was the chair of this Chapter from 2009 to 2012. During this period, the chapter organized five IEEE Distinguished Lectures and other technical and professional activities. He is the current advisor of the IEEE SPS Student Chapter in ENIS since 2010.

He was the Honorary chair of the International Conference on Information Assurance and Security (IAS'2013), the Program chair of the International Conference on Individual and Collective Behaviors in Robotics (ICBR'2013), the Doctoral Consortium Workshop Organizer behalf the International Conference on Advanced Logistics and Transport (ICALT'2013), the chair of the Third International Conference on Next Generation Networks and Services (NGNS'2011) technically co-sponsored by IEEE Education Society, the chair of the Workshop on Intelligent Machines: Theories & Applications (WIMTA 2008) and the chair of the organizing committee of the conference on Information Processing and Analysis: Methods and Applications (TAIMA 2009), the International Conference on Machine Intelligence (ACIDCA-ICMI'2005); and the International Conference on Signals, Circuits and Systems (SCS'2004).

▼ ACADEMIC CREDENTIALS

Professor Computer Engineering December 2011	National Engineering School of Sfax, Tunisia Major field: Computer vision, image and video analysis Minor Field: Intelligent processing and analysis of multimedia documents
Associate Professor Computer Engineering December 2006	National Engineering School of Sfax, Tunisia Major field: Computer vision, image and video analysis Minor Field: Intelligent processing and analysis of multimedia documents
HDR(Habilitation) Computer Engineering December 2005	National Engineering School of Sfax, Tunisia Major field: Computer vision, image and video analysis Minor Field: Intelligent processing and analysis of multimedia documents Dissertation Title: "Les ondelettes Bêta : théorie et applications"
Ph.D (Thèse) in Computer Engineering December 1994	National Institute of Applied Sciences, Lyon, FRANCE Major field: Computer Vision Minor Field: Camera Modeling for CAD Robotic Systems Dissertation Title: "Modélisation et placement automatique de capteurs de vision. Intégration d'un module-vision dans un système de CAO-Robotique"
Master of Science (D.E.A) in Computer Engineering October 1990	National Institute of Applied Sciences, Lyon, FRANCE Major field: Computer Vision Minor Field: Image Based Dimensional Control Systems Dissertation Title: "Programmation Hors-ligne : application au contrôle dimensionnel"
Bachelor Degree (Ingénieur) Electrical Engineering October 1989	National Engineering School of Sfax, Tunisia Major Field: Electrical Engineering Minor Field: Industrial Computing Dissertation Title: "Etude et réalisation d'un système de contrôle des feux de circulation par microprocesseur"

▼ PROFESSIONAL EXPERIENCE

- Professor
Since 2011**
- National Engineering School of Sfax, Tunisia**
- Taught courses in
 - Computer Vision
 - Vision Perception Systems
 - Vision Systems
 - Robotic-Vision
 - Image processing
 - Signal processing
- Associate Professor
since 2006**
- National Engineering School of Sfax, Tunisia**
- Taught courses in
 - Computer Vision
 - UNIX Support and Administration
 - Vision Systems
 - Robotic-Vision
 - Image processing
 - Signal processing
- Assistant Professor
1999 – 2006**
- National Engineering School of Sfax, Tunisia**
- Taught courses in
 - C language programming
 - Network Support, Interconnecting and Administration
 - Linux (Support and administration)
 - Signal Processing
 - Image Processing
 - Robotics
 - Computer vision
 - Directed graduate research projects.
 - Directed undergraduate end of studies projects.
- Assistant Professor
1995 – 1999**
- High Institute of Science and Techniques (Ecole Supérieure des Sciences et Techniques de Tunis)**
- Taught courses in
 - System Control
 - Robotics
 - Signal Processing
 - Image Processing
 - and C language programming
 - Directed graduate research projects.
 - Directed undergraduate projects of end studies.
- Teaching Assistant
1994 – 1995**
- University of Haute Savoie, I.U.T d'Annecy, France**
- Taught courses in Analogical and Digital Electronics.

▼ RESEARCH ACTIVITIES

Key Words

Image, video, wavelets, wavelet networks, neural networks, coding, multiresolution analysis, 3D mesh coding, watermarking, CBIR, face detection, face recognition, classification, data approximation, motion estimation, multimodal signals, emotion annotation, Knowledge extraction, video learning.

Current Research Interest

- Wavelet networks for image and video classification
- Shearlet Networks for face and face aging Recognition
- Video-action Recognition using Spatio-Temporal features
- Bag of sub-Graphs for video categorisation
- Facial Expression Recognition Constructive Training Algorithms
- Data Approximation using wavelet and Wavelet Networks
- Scan-based wavelet transform for multiresolution 3D meshes Compression
- Lattice vector quantization for image indexing
- Bag of Graphs Gesture Recognition
- Visual attention prediction
- Emotion detection, extraction and annotation
- Image, audio and Video Watermarking
- Video Pre-Analyzing for video Surveillance Applications
- Blind audio watermarking using wavelet networks and Psychoacoustic Model
- Mosaic images and shadow detection for video watermarking
- Content Based Visual MRI Retrieval approach for Alzheimer's disease diagnosis
- Context aware Semantic Annotation and Retrieval in Social Photo Collections
- Multimodal Medical Images Reconstruction

Thesis - Supervisor of 36 Doctoral Thesis

Former PHD students (18 doctors supervised or co-supervised)

- **Mourad ZAIED**, Etude des réseaux d'Ondelettes Bêta: application à la reconnaissance de visage, (February **2008**).
- **Sodki CHAARI**, Interconnexion des Processus Interentreprises : une approche orientée services, (December **2008**). ("Cotutelle", in collaboration with professor Joel FAVREL of LIESP laboratory INSA Lyon France).
- **Moez MIRAOU**, Architecture Logicielle pour l'Informatique Diffuse : Modélisation du Contexte et Adaptation Dynamique des Services, (July **2009**). ("Co-direction", in collaboration with professor Chakib TADJ of LATS laboratory ETS Montreal Canada)
- **Wajdi BELLIL**, Multi-library Beta Wavelet Networks Approximation: Application to Filter Synthesis and Image Analysis, (October **2009**).
- **Oifa JEMAI**, Apprentissage automatique des réseaux d'ondelettes : Application à la classification d'images, (March **2010**).
- **Maher EL'ARBI**, A Wavelet Domain Video Watermarking Approach, (November **2010**).

- **Mohamed KOUBAA**, Tatouage Robuste de la Vidéo Basé sur la Notion des Régions d'Intérêt, (November **2010**). ("Cotutelle", in collaboration with professor Henri NICOLAS of Labri laboratory Bordeaux France).
 - **Mahmoud MEJDOUB**, Indexation Sémantique des images basée sur la quantification vectorielle des réseaux de points réguliers, (December **2010**). ("Cotutelle" CMCU Grant, in collaboration with professor Marc ANTONINI of I3S laboratory Nice France).
 - **Anis MEFTAH**, Compression et codage scalable d'objets 3D pour leur visualisation et manipulation sur des systèmes hétérogènes, (March **2011**). ("Co-direction" Region PACA/CNRS grant, in collaboration with professor Marc ANTONINI of I3S laboratory Nice France).
 - **Akram ELKEFI**, Compression des Maillages 3D Multirésolutions de Grandes Précisions, (December **2011**). ("Cotutelle" AUF Grant, in collaboration with professor Marc ANTONINI of I3S laboratory Nice France).
 - **Mohamed OTHMANI**, Etude et Mise en place d'une bibliothèque adaptative de réseaux d'ondelettes Bêta pour une application de classification d'objets 3D (January **2012**).
 - **Ridha EJBALI**, Wavelet Networks for Speech Recognition (December **2012**).
 - **Wael BEN SOLTANA**, Optimisation des Stratégies de Fusion pour la Reconnaissance de Visages 3D (December **2012**). ("Co-direction" MENRT grant, in collaboration with professor Liming CHEN of LIRIS laboratory Lyon France).
 - **Maha CHARFEDDINE**,
New Audio Watermarking Schemes in Transform Domain Based on Preliminary MP3 Study, Neural Network Architecture and Psychoacoustic Model (March **2013**).
 - **Imen TAYARI**,
Modélisation, Détection et annotation des états émotionnels à l'aide d'un Espace Vectoriel Multidimensionnel (April **2013**). ("Cotutelle" Averroes Grant, in collaboration with professor Nhan LE THANH of I3S laboratory Nice France)
 - **Fatma MAKHLOUF**,
Restauration des images en scintigraphie planaires et SPECT suite à la réduction des doses administrées et des temps de pause (January **2014**). ("Cotutelle" Mobility Grant, in collaboration with professor Bassel SOULAIMAN of TELECOM BRETAGNE).
 - **Amel KSIBI**,
Context aware semantic annotation and retrieval in social photo collections (February **2014**)
 - **Najib BENAOUN**,
Catégorisation de la vidéo basée sur une approche de sac de sous-graphes (February **2014**)
- PHD students doing research under my supervision (18 students supervised or co-supervised)***
- **Anoir ELBORGI**, Reconnaissance de Visages 3D par Fusion d'Informations et Réseaux d'Ondelettes dans le Cadre de la Théorie de l'évidence (since October 2009).

- **Hayet BOUGHRARA**, MLP Neural Network Using Modified Constructive Training algorithm: Application to Face Recognition based on Perceived Facial Images (since October 2009, "Codirection", in collaboration with professor Mohamed CHTOUROU from ENI Sfax).
- **Housseem ABID**, Intégration des Systèmes Mécatroniques dans le PLM (since October 2010, "Cotutelle" Mobility Grant, in collaboration with professor Jean Pierre CANPAGNE of DISP Laboratory INSA Lyon).
- **Mouna DAMMAK**, Indexation de la vidéo basée sur l'extraction des motifs spatio-temporels (since October 2010).
- **Fatma AYARI**, Analyse expérimentale et modélisation multi échelle de matériaux biocompatibles destinés à des applications médicales (since October 2011).
- **Ikbel SAYAHI**, Tatouage au fil de l'eau des maillages 3D de très haute définition (since October 2011).
- **Manel SEKMA**, Reconnaissance des actions vidéo par les descripteurs spatio-temporels (since October 2011).
- **Olfa BEN AHMED**, Indexation des images cérébrales: application au diagnostic précoce de la Maladie d'Alzheimer (since October 2011. "Cotutelle" Mobility Grant, in collaboration with professor Jenny Benois Pineau of LaBRI laboratory of Bordeaux University).
- **Amal BEN HAMIDA**, Pré-Analyse Temps-Réel de Vidéos dans un Contexte de Vidéosurveillance (since October 2011. "Cotutelle" Mobility Grant, in collaboration with professor Henri Nicolas of LaBRI laboratory of Bordeaux University).
- **Sameh BOUZIDI**, A semi Automated Myocardial segmentation using deformable model and noise estimation in cardiac MRI (since October 2011. "Codirection" Mobility Grant, in collaboration with professor Pascal Desbarat of LaBRI laboratory of Bordeaux University).
- **Eya MEZGHANNI**, Semantic Video Indexing By Watermarking Techniques In The Compressed Domain (since October 2012).
- **Faten CHAABANE**, Hierarchical traceability of Multimedia Documents (since October 2012).
- **Ghada FEKI**, Ambiguity Resolution to Improve Diversity for Context-Based Image Retrieval (since October 2012).
- **Rim FAKHFAKH**, Image Retrieval System: Social Networking on the Semantic Web (since October 2012).
- **Mehdi AYADI**, Réalité augmentée sur mobile en contexte urbain (since October 2013).
- **Ameni SASSI**, Influence du contexte topographique et végétal sur les représentations du grand paysage Urbain (since October 2013).
- **Salma KSIBI**, ré-identification des personnes dans les flux vidéos basée sur les motifs visuels (since October 2013).

- **Souad CHAABOUNI**, Etude et Prédiction Automatique de l'Attention Visuelle des Populations Atteintes des Maladies Neuro-Dégénératives (since October 2013. "Codirection" Mobility Grant, in collaboration with professor Jenny Benois Pineau of LaBRI laboratory of Bordeaux University).

▼ PUBLICATIONS

MASTER, PHD AND HABILITATION

- **C. BEN AMAR**, "Ondelettes et réseaux d'ondelettes Bêta : fondement et applications", **HDR**, ENI de Sfax, Tunisie, December 15, **2005**.
- **C. BEN AMAR**, "Modélisation et placement automatique de capteurs de vision. Intégration d'un module-vision dans un système de CAO-Robotique", **PHD**, INSA de Lyon, France, December **1994**.
- **C. BEN AMAR**, "Programmation Hors-ligne : application au contrôle dimensionnel", **DEA**, INSA de Lyon, France, October 20, **1990**.

CHAPTER BOOKS (2 published)

- W. BELLIL, M. OTHMANI, **C. BEN AMAR** and M. A. ALIMI, A New Algorithm for Initialization and Training of Beta Multi-Library Wavelets Neural Network. In **Advances in Robotics, Automation and Control**, I-Tech Education and Publishing, edited by Jesus Aramburo and Antonio Ramirez Trevino, October 2008, pp. 199-220.
- N. BEN AOUN, M. EL'ARBI and **C. BEN AMAR**, Wavelet Transform based motion estimation and compensation for video coding, book "Wavelet Transform / Book 2", ISBN 979-953-307-385-8.

PAPERS IN REFEREED JOURNALS (40 published, 3 submitted)

2014 (1 publication)	
Submitted	O. BEN AHMED, J. Benois PINEAU, M. Allard, C. BEN AMAR and C. Gwenaelle, Alzheimer's disease diagnosis on structural brain MR Images using visual local patterns of Hippocampus and Posterior Cingulate Cortex, submitted to the Neuroimage Journal, 2013.
Submitted	A. ELKEFI, A. MEFTAH, M. ANTONINI and C. BEN AMAR , Scan-based Wavelet Transform for the Compression of Highly Detailed Multiresolution 3D Meshes, submitted to the International Journal of Computers & Graphics, 2013.
Submitted	A. ELKEFI, A. MEFTAH, C. BEN AMAR and M. ANTONINI, MMP Compression of 3D Meshes, submitted to the International Journal IET Image Processing, 2013.
40	N. BEN AOUN, M. MEJDOUB and C. BEN AMAR , Video Event Detection using Spatio-temporal Graph-based Approach, Journal of Visual Communication and Image Representation (JVCI), Vol. 25, Issue 2, pp. 329-

	338, February 2014.
2013 (6 publications)	
39	F. MAKHLOUF, H. BESBES, N. KHALIFA, C. BEN AMAR and B. SOULAIMAN, Planar Scintigraphic Images Denoising, Open Journal of Medical Imaging, Vol. 3, N°4, pp. 116-124, 2013.
38	I. T. MEFTAH, N. L. THANH and C. BEN AMAR , Multimodal Approach for Emotion Recognition Using a Formal Computational Model, International Journal of Applied Evolutionary Computation, Vol. 4, N° 3, pp. 11-25, 2013.
37	BOUCHRIKA, T. ZAIED, M., JEMAI, O. and C. BEN AMAR , Neural solutions to interact with computers by hand gesture recognition, International Journal "MULTIMEDIA TOOLS AND APPLICATIONS", MTAP, Springer Netherlands, DOI 10.1007/s11042-013-1557-y, 2013.
36	KSIBI, A. BEN AMMAR and C. BEN AMAR , Adaptive Diversification for Tag-based Social Image Retrieval, International Journal of Multimedia Information Retrieval, DOI 10.1007/s13735-013-0045-5, 2013.
35	M. MEJDOUB, N. BEN AOUN and C. BEN AMAR , Bag of frequent subgraphs approach for image classification, accepted for publication in the International Journal of Intelligent Data Analysis, 2013.
34	O. JEMAI, I. TEYEB, T. BOUCHRIKA and C. BEN AMAR , A Novel Approach for Drowsy Driver Detection Using Eyes Recognition System Based on Wavelet Network, International Journal of Recent Contributions from Engineering, Science & IT, Vol. 1, N°1, pp. 46-52, 2013.
2012 (9 publications)	
33	S. SAID, M. A. BORGI, B. BE AMOR and C. BEN AMAR , 3D Face Recognition Using Multimatcher Approach, International Journal "Transactions on Systems, Signals and Devices" (Issues on Communication & Signal Processing), Vol. 7, N° 3, pp. 291-306, 2012.
32	F. AYARI, F. AYARI, E. BAYRAKTAR and C. BEN AMAR , Image Processing and Finite Element Modeling for Analysis of a Metal Matrix Composite, International Journal of Computer Science Issues, IJCSI, Vol. 9 N° 5, pp. 448-457, 2012.
31	M. ZAIED, R. Mohamed and C. BEN AMAR , A Power Tool for Content-Based Image Retrieval Using Multiresolution Wavelet Network Modelling and Dynamic Histograms, Journal Review on Computers and Software, IRECOS, Vol. 7 N°4, pp. 1435-1444.
30	M. ZAIED, I. BEN ABDENNOUR and C. BEN AMAR , Decision Support System Including Fuzzy Logic and Multi-resolution Wavelet Network Modeling For Content-based Image Retrieval, Journal of WULFENIA, Vol. 19 N°10, pp. 200-218.
29	M. SAKKARI, M. ZAIED and C. BEN AMAR , Using Hand as Support to Insert Virtual Object in Augmented Reality Applications, Journal of Data Processing, Vol. 2, N°1, pp. 10-24, 2012.
28	M. CHARFEDDINE, M. EL'ARBI and C. BEN AMAR , A New DCT Audio Watermarking Scheme Based on Preliminary MP3 Study: Application to Video Watermarking, International Journal "MULTIMEDIA TOOLS AND

	APPLICATIONS", MTAP, Springer Science +Business Media, LLC2012, pp. 1-37, Doi: 10.1007/11s042-012-1167_0, 2012.
27	M. OTHMANI, W. BELLIL, C. BEN AMAR and M. A. ALIMI, A novel approach for high dimension 3D object representation using Multi-Mother Wavelet Network, International Journal "MULTIMEDIA TOOLS AND APPLICATIONS", MTAP, Springer Netherlands, Vol. 59, N°1, pp. 7-24, 2012.
26	M. KOUBAA, C. BEN AMAR and H. NICHOLAS, Collusion, MPEG4 compression and frame dropping resistant video watermarking, International Journal "MULTIMEDIA TOOLS AND APPLICATIONS", MTAP, Springer Netherlands, Vol. 56, N°2, pp. 281-301, 2012.
25	R. EJBALI, M. ZAIED and C. BEN AMAR , Multi-Input Multi-Output Beta Wavelet Network: Modeling of Acoustic Units for Speech Recognition, International of Advanced Computer Science and Applications, IJACSA, Vol. 4, N°4, pp. 38-44, 2012.
2011 (8 publications)	
24	A. MEKAOUAR, H. T. REDARCE et C. BEN AMAR , Vers l'asservissement visuel de l'embout d'un coloscope, Journal Européen des Systèmes Automatisés, European Journal of Automation, JESA, Vol. 45, N° (4-6), pp. 437-457, 2011.
23	N. BEN AOUN, H. ELGHAZEL, M.-S. HACID and C. BEN AMAR , Graph Aggregation Based Image Modeling and Indexing for Video Annotation, Lecture Notes in Computer Science, 6855, LNCS (PART 2), pp. 324-331., 2011
22	M. ZAIED, S. SAID, Oifa JEMAI, and C. BEN AMAR , A novel approach for face recognition based on fast learning algorithm and wavelet network theory, IJWMIP International Journal of Wavelets, Multiresolution and Information Processing, Vol. 09, N° 6, pp 923-945, 2011.
21	M. MEJDOUB and C. BEN AMAR , Classification improvement of local feature vectors over the KNN algorithm, International Journal "MULTIMEDIA TOOLS AND APPLICATIONS", MTAP, Springer Netherlands, ISSN 1380-7501, pp. 1-22, Doi: 10.1007/s11042-011-0900-4, 2011.
20	O. JEMAI, M. ZAIED, C. BEN AMAR and M. A. ALIMI, Faster Learning Algorithm of Wavelet Network Based on Fast Wavelet Transform, International Journal of Pattern Recognition and Artificial Intelligence, IJPRAI, Vol. 25, N° 8, pp. 1279-1319, 2011.
19	M. MIRAOUI, C. TADJ, J. FATTAHI and C. BEN AMAR , Dynamic Context-Aware and Limited Resources-Aware Service Adaptation for Pervasive Computing, Advances in Software Engineering, Vol. 2011, Article ID 649563, 11 pages, doi: 10.1155/2011/649563, 2011.
18	O. JEMAI, M. ZAIED, C. BEN AMAR and M. A. ALIMI, Pyramidal Hybrid Approach: Wavelet Network with OLS Algorithm Based-Image Classification, International Journal of Wavelets, Multiresolution and Information Processing, IJWMIP, Vol. 9, No. 1, pp. 111-130, 2011.
17	M. EL'ARBI, M. KOUBAA, M. CHARFEDDINE and C. BEN AMAR , A Dynamic Video Watermarking Algorithm in Fast Motion Areas in the Wavelet Domain, International Journal "MULTIMEDIA TOOLS AND

	APPLICATIONS", MTAP, Springer Netherlands, Vol. 55, N°3, pp. 579-600, 2011.
2010 (4 publications)	
16	R. EJBALI · M. ZAIED and C. BEN AMAR , Wavelet network for recognition system of Arabic word, International Journal of Speech Technology, Springer Netherlands, ISSN 1381-2416, Vol. 13, No. 3, pp. 163-174, 2010.
15	A. WALI, N. BEN AOUN, H. KARRAY, C. BEN AMAR and A. M. ALIMI: A New System for Event Detection from Video Surveillance Sequences. Lecture Notes in Computer Science, Vol. 6475, LNCS, pp. 110-120, 2010.
14	M. OTHMANI, W. BELLIL, C. BEN AMAR and M. A. ALIMI, A New Structure and Training Procedure for Multi-Mother Wavelet Networks, International Journal of Wavelet Multiresolution and Information Processing, IJWMIP, Vol. 8, N° 1, pp. 149-175, 2010.
13	M. EL'ARBI, M. KOUBAA and C. BEN AMAR , A Wavelet Networks Approach for Image Watermarking, International Journal of Computational Intelligence and Information Security, IJCIIS, vol. 1, No. 1, pp. 34-43, January 2010.
2009 (1 publication)	
12	M. MEJDOUB, L. FONTELES, C. BEN AMAR and M. ANTONINI, Embedded lattices tree: An efficient indexing scheme for content based retrieval on image databases, Journal of Visual Communication and Image Representation, JVCI, Vol. 20, No. 2, pp. 145-156, 2009.
2007 (2 publications)	
11	W. BELLIL, C. BEN AMAR and M. A. ALIMI, Multi Library Wavelet Neural Network for lossless image compression, International REview on Computers and Software, Vol. 2, N°. 5, ISSN 1828-6003, pp 520-526, September 2007.
10	C. BEN AMAR and O. JEMAI, Wavelet Networks Approach-based Image Compression, ICGST International Journal on Graphics, Vision and Image Processing, GVIP Special Issue on Image Compression, pp. 15-23, 2007.
2006 (3 publications)	
9	H. CHETTAOUI, G. THOMANN, C. BEN AMAR and T. REDARCE, A new Gray-Level Picture Thresholding method for colonoscopic navigation, Special issue on Medical Image Computer Assisted Intervention, (MICCAI) , Insight Journal, pp. 1-11, 2006.
8	C. BEN AMAR , W. BELLIL and A. ALIMI, Beta Functions and Their Derivatives: a New Wavelet Family, Transactions On Systems Signals & Devices, Shaker Verlag Edition, Vol. 1, N°. 3, pp. 275-293, ISSN: 1861-5252, 2006
7	W. BELLIL, C. BEN AMAR and M. A. ALIMI, Comparison between beta Wavelets neural networks, RBF neural networks and polynomial approximation for 1D, 2D functions approximation, Transactions on Engineering, Computation and Technology, vol. 13, ISSN 1305-5313, pp 102-107, 2006.
2005 (2 publications)	
	C. BEN AMAR , M. ZAIED and M. A. ALIMI, Beta Wavelets. Synthesis and

6	application to lossy image compression, Journal of Advances in Engineering Software", Elsevier edition, Vol.36, N°7, pp. 459-474, July 2005.
5	M. ZAIED, C. BEN AMAR and M. A. ALIMI, Beta Wavelet Networks for Face Recognition, Journal of Decision Systems, Lavoisier 2005 Edition, Vol. 14, N°. 1-2/2005, pp. 109-122, 2005.
1995 (1 publication)	
4	T. REDARCE, Y. LUCAS, C. BEN AMAR and S. PERRIN, An Integrated Approach for Programming Vision Inspection Cells. International Journal off Computer Integrated Manufacturing, Vol.8, N°4, pp. 298-311, 1995.
1994 (2 publications)	
3	C. BEN AMAR , S. PERRIN and T. REDARCE, Programmation et animation d'un poste virtuel de contrôle vision. Revue d'Automatique et de Productique Appliqués. Edition HERMES. Vol.7, N°3, pp.297-316, 1994.
2	C. BEN AMAR , M. MARTINEZ, T. REDARCE and J. FAVREL, Coopération Vision-CFAO dans un Cadre d'Intégration. Revue internationale de CFAO et d'infographie. Edition HERMES. Vol.9, N°5, pp.685-693, 1994.
1992 (1 publication)	
1	C. BEN AMAR , T. REDARCE, Y. LUCAS and A. JUTARD, Off-Line Programming and Dimensional Control. Manufacturing Systems. Vol.21, N°4, pp.247-251, 1992.

ARTICLES DE CONFERENCES (123 publiés, 4 acceptés, 2 soumis)

2014 (4 accepted publications)	
Submitted	O. BEN AHMED, J. Benois PINEAU, M. Allard, C. BEN AMAR and C. Gwenaelle, Alzheimer's disease diagnosis on structural brain MR Images using visual local patterns of Hippocampus and Posterior Cingulate Cortex, submitted to the 20th ACM International conference in Multimedia Modeling, 2014
Submitted	H. BOUGHRARA, L. CHEN, M. CHTOURPU and C. BEN AMAR , MLP Neural Network Using Modified Constructive Training Algorithm: Application to Face Recognition, submitted to the 17th IEEE Mediterranean Electrotechnical Conference, MELECON'2014
Accepted	M. DAMMAK, M. MEJDOUB and C. BEN AMAR , Laplacian Tensor Sparse Coding for image Categorization, accepted in ICASSP2014 IEEE International Conference on Acoustics, Speech and Signal Processing, to be held in Florence Italy from 4 to 9 May 2014.
Accepted	M. A. BORGI, D. LABATE, M. EL'ARBI and C. BEN AMAR , Regularized Shearlet Network For Face Recognition Using Single Sample Per Person, accepted in ICASSP2014 IEEE International Conference on Acoustics, Speech and Signal Processing, to be held in Florence Italy from 4 to 9 May 2014.
Accepted	M. SEKMA, M. MEJDOUB and C. BEN AMAR , Spatio-Temporal Pyramidal Accordion Representation for Human Action Recognition, accepted in ICASSP2014 IEEE International Conference on Acoustics, Speech and Signal

	Processing, to be held in Florence Italy from 4 to 9 May 2014.
Accepted	N. BEN AOUN, M. MEJDOUB and C. BEN AMAR , Bag of sub-graphs for video event recognition, accepted in ICASSP2014 IEEE International Conference on Acoustics, Speech and Signal Processing, to be held in Florence Italy from 4 to 9 May 2014.
2013 (17 publications)	
123	F. CHAABANE, M. CHARFEDDINE and C. BEN AMAR , A survey on Digital Tracing Traitors Schemes, IEEE 9th International Conference on Information Assurance and Security, IAS'2013, pp. 85-90, Sousse-Tunisia 4-6 December 2013.
122	D. BOUSNINA, R. EJBALI, M. ZAIED and C. BEN AMAR , A Wavelet Network Speech Recognition System to Control an Augmented Reality Object, IEEE 9th International Conference on Information Assurance and Security, IAS'2013, pp. 121-124, Sousse-Tunisia 4-6 December 2013.
121	R. EJBALI, M. ZAIED and C. BEN AMAR , Face Recognition Based on Beta 2D Elastic Bunch Graph Matching, IEEE 13th International Conference on Hybrid Intelligent System, HIS'2013, pp. 89-93, Sousse-Tunisia 4-6 December 2013.
120	O. BEN AHMED, J. Benois PINEAU, M. Allard, C. BEN AMAR and C. Gwenaelle, Alzheimer disease diagnosis on structural brain MR Images, In Proceedings of the 30th European Society For Magnetic Resonance In Medicine And Biology Congress 2013, Toulouse, France, 2013.
119	F. MAKHLOUF, N. KHLIFA, H. BESBES, C. BEN AMAR and Basel SOULAIMAN, A comparative study of multiresolution methods to reduce the noise in scintigraphic images, 2013 International Conference on Computer Medical Applications (ICCM), pp. 1-5, Sousse, Tunisia.
118	E. MEZGHANNI, M. CHARFEDDINE and C. BEN AMAR , Audio silence deletion before and after MPEG video compression, 2013 International Conference on Computer Applications Technology (ICCAT), pp. 1-5, Sousse, Tunisia, 2013.
117	H. BOUGHRARA, L. CHEN, C. BEN AMAR and M. CHTOUROU, Facial Expression Recognition based on Perceived Facial Images And Local Feature Matching, 17th International Conference on Image Analysis and Processing (ICIAP2013), Naples, Italy, 2013.
116	A. BEN HAMIDA, M. KOUBAA, C. BEN AMAR and H. NICOLAS, Spatio-temporal video filtering for video surveillance applications, IEEE International Conference on Multimedia and Expo (IEEE ICME), San Jose, USA, 2013.
115	M. A. BORGI, M. EL'ARBI and C. BEN AMAR , Shearlet Network-based Sparse Coding Augmented by Facial Texture Features for Face Recognition, 17th International Conference on Image Analysis and Processing (ICIAP2013), Naples, Italy, 2013.
114	A. BEN HAMIDA, M. KOUBAA, C. BEN AMAR and H. NICOLAS, Video Pre-Analysing and Coding in the Context of Video Surveillance Applications, IEEE International Conference on Multimedia and Expo (IEEE ICME), San Jose, USA, 2013.

113	M. A. BORGI, M. EL'ARBI and C. BEN AMAR , Wavelet Network and Geometric Features Fusion Using Belief Functions for 3D Face Recognition, Computer Analysis of Images and Patterns, Lecture Notes in Computer Science Vol. 8048, pp 307-314, 2013.
112	M. SEKMA, M. MEJDOUB and C. BEN AMAR , Human Action Recognition Using Temporal Segmentation and Accordion Representation, Computer Analysis of Images and Patterns, Lecture Notes in Computer Science Vol. 8048, pp 563-570, 2013.
111	KSIBI, G. FEKI, A. BEN AMMAR and C. BEN AMAR , Effective Diversification for Ambiguous Queries in Social Image Retrieval, Computer Analysis of Images and Patterns, Lecture Notes in Computer Science Vol. 8048, pp 571-578, 2013.
110	O. BEN AHMED, J. BENOIS-PINEAU, C. BEN AMAR , M. ALLAD and G. CATHELIN, Early Alzheimer disease detection with bag-of-visual-words and hybrid fusion on structural MRI, Content-Based Multimedia Indexing (CBMI), pp. 79-83, Hungary, 2013.
109	A. KSIBI, A. BEN AMAR and C. BEN AMAR , Enhanced context-based query-to-concept mapping in social image retrieval, Content-Based Multimedia Indexing (CBMI), pp. 85-89, Hungary, 2013.
108	G. FEKI, A. KSIBI, A. BEN AMAR and C. BEN AMAR , Improving image search effectiveness by integrating contextual information, Content-Based Multimedia Indexing (CBMI), pp. 149-154, Hungary, 2013.
107	R. FAKHFAKH, A. KSIBI, A. BEN AMAR and C. BEN AMAR , Enhancing query interpretation by combining textual and visual analyses, IEEE International Conference on Advanced Logistics and Transport (ICALT), pp. 170-175, Tunisia, 2013.
2012 (7 publications)	
106	A. KSIBI, A. BEN AMAR and C. BEN AMAR , Effective Concept Detection using Second Order Co-occurrence Flickr Context Similarity measure SOCFCS, Content-Based Multimedia Indexing (CBMI), pp. 1-6, Annecy, France, 2012.
105	T. BOUCHRIKA, M. ZAIED, O. JEMAI and C. BEN AMAR , Ordering Computers By Hand Gestures Recognition Based On Wavelet Networks, 2012 2nd International Conference on Communications, Computing and Control Applications (CCCA), pp. 1-6, Marseille 2012.
104	A. KSIBI, M. DAMMAK, A. BEN AMMAR, M. MEJDOUB and C. BEN AMAR , Flickr-based Semantic Context to refine Automatic Photo Annotation, IEEE International Conference on Image Processing Theory, Tools & Applications, IPTA'2012, pp. 1-6, October 15-18, 2012, Istanbul, Turkey.
103	I. T. MEFTAH, N. L. THANH and C. BEN AMAR , Detecting depression using a multidimensional model of emotional states, First International Conference on Global Health Challenges (GLOBAL HEALTH 2012), pp. 101-107, October 21-26, Venice, Italy, 2012.
102	I. T. MEFTAH, N. L. THANH and C. BEN AMAR , Multimodal Recognition of Emotions using a Formal Computational Model, International Conference on Signal Image Technology & Internet Systems (SITIS'2012), pp. 541-546, November 25-29, Sorrento-Naples, Italy, 2012.

101	I. T. MEFTAH, N. L. THANH and C. BEN AMAR , Emotion Recognition using KNN Classification for User Modeling and Sharing of Affect States, 19th International Conference on Neural Information Processing (ICONIP'2012), pp.234-242, November 12-15, Doha, Qatar 2012.
100	H. BOUGHRARA, M. CHTOUROU and C. BEN AMAR , MLP Neural Network Based Face Recognition System Using Constructive Training Algorithm, International Conference on Multimedia Computing and Systems, ICMCS 2012, pp. 233-238, Netherlands July 25-26, 2012.
99	S. MEGRHI, W. SUIDENE, A. BEGHDADI and C. BEN AMAR , Video Indexing Using Salient Region Based Spatio-temporal Segmentation Approach, International Conference on Multimedia Computing and Systems, ICMCS 2012, pp. 170-173, Netherlands July 25-26, 2012.
98	W. SUIDENE, S. MEGRHI, A. BEGHDADI and C. BEN AMAR , Perceptual Non Local Mean (P-NLM) Denoising, 5th International Symposium on Communications Control and Signal Processing, ISCCSP 2012 , DOI 10.1109/ISCCSP.2012.6217809, pp. 1-4, 2012.
97	N. JAOUADI, R. EJBALI, M. ZAIED and C. BEN AMAR , The Impact of the Speaker's State on Speech Recognition, 2nd International Conference on Communications and Information Technology (ICCIT): Information Technology and Cloud Computing, ICCIT'2012, Valencia Spain, December 22-24, pp. 108-111, June 26-28, Hammamet-Tunisia, 2012.
96	H. BOUGHRARA, L. CHEN, C. BEN AMAR and M. CHTOUROU, Face Recognition Under Varying Facial Expression Based on Perceived Facial Images and Local Feature Matching, International Conference on Information technology and e-Services, ICITeS 2012, DOI 10.1109/ICITeS.2012.6216663, pp. 1-6, 2012.
95	M. SAKKARI, M. ZAIED and C. BEN AMAR , Hands Tracking for Augmented Reality Applications, International Conference on Information technology and e-Services, ICITeS 2012, DOI 10.1109/ICITeS.2012.6216641, pp. 1-6, 2012.
94	N. DHIBI, W. BELLIL and C. BEN AMAR , Study Implementation of a New Training Algorithm for Wavelet Networks Based on Genetic Algorithm and Multiresolution Analysis for 3D Objects Modelling, Proceeding of the IEEE Mediterranean Electrotechnical Conference MELECON'2012, DOI 10.1109/MELCON.2012.6196519, pp. 665-668, 2012.
2011 (18 publications)	
93	M. DAMMAK, M. MEJDOUB, M. ZAIED and C. BEN AMAR , Feature Vector Approximation Based on Wavelet Network, Proceedings of the 4th International Conference on Agents and Artificial Intelligence ICAART 2012, pp. 394-399, Vilamoura-Algarve-Portugal 6-8 February 2012.
92	O. BEN AHMED, M. MEJDOUB and C. BEN AMAR , SIFT Accordion: A Space-Time Descriptor Applied to Human Action Recognition, International Conference on Machine Vision, Image Processing, and Pattern Analysis, ICMVIPPA'2011, pp. 1857-1863, Venice-Italy 28-30 November 2011.
91	A. ELKEFI, A. MEFTAH, M. ANTONINI and C. BEN AMAR , Multidimensional Multiscale Parser Compression of 3D Meshes, IEEE

	European 3D-Stereo Summit for Science, Technology and Digital Art "IC3D 2011", pp. 1-5, Liege-Belgium 7-8 December 2011.
90	M. A. BORGI, S. SAID, B. BEN AMOR and C. BEN AMAR , Information Fusion for 3D Face Recognition, IEEE International Conference on Image Information Processing "ICIIP 2011", Art. N° 6108980, India 3-5 November 2011.
89	S. HENI, R. EJBALI, M. ZAIED and C. BEN AMAR , A Neural Principal Component Analysis for Text Based Documents Keywords Extraction, IEEE 3rd International Conference on Next Generation Networks and Services, NGNS'2011, art. N° 6142550, pp. 112-115, 2011.
88	F. CHAABANE, M. CHARFEDDINE and C. BEN AMAR , The impact of Error Correcting Coding in Audio Watermarking, IEEE 3rd International Conference on Next Generation Networks and Services, NGNS'2011, art. N° 6142556, pp. 90-95, 2011.
87	L. CHEN, D. HUANG, C. HMIDA and C. BEN AMAR , Increasing the distinctiveness of hand vein images by Oriented Gradient Maps, BIOSIG 2011, pp. 227-234, Darmstad 8-9 September 2011.
86	A. KSIBI, A. BEN AMMAR and C. BEN AMAR , Integrating Contextual Information to Enhance Photo Annotation and Concept-based Retrieval, CLEF (Notebook Papers/Labs/Workshop) 2011
85	W. BEN SOLTANA, M. ARDABILIAN, L. CHEN and C. BEN AMAR , A mixture of Gated Experts Optimized using Simulated Annealing for 3D Face Recognition, to appear in the IEEE International Conference on Image Processing – ICIP'2011, Art. N° 6116304, pp. 3037-3040, Belgium, November 11-14, 2011.
84	N. CHERIF, R. EJBALI, M. ZAIED and C. BEN AMAR , Identification de thème dans une vidéo en se basant sur un système de reconnaissance de la parole, à publier pendant les 6èmes Ateliers de Traitement et Analyse de l'Information : Méthodes et Applications (TAIMA'2011), Hammamet Tunisie, 3-8 Octobre, 2011.
83	M. A. BORGI, S. SAID, B. BEN AMOR and C. BEN AMAR , Information Fusion by Multi Matcher for 3D Face Recognition, IEEE 2011 3rd International Conference on Signal Acquisition and Processing (ICSAP 2011), Singapore, pp. v2-338-343, February 26-28, 2011.
82	B. GUEDRI, M. ZAIED and C. BEN AMAR , Indexing and images retrieval by content, IEEE 2011 International Conference on High Performance Computing & Simulation (HPCS'2011), Istanbul Turkey, Art. N° 5999848, pp. 369-375, July 4-8, 2011.
81	I. T. MEFTAH, N. L. THANH and C. BEN AMAR , Sharing Emotional Information Using A Three Layer Model, Sixth International Conference on Internet and Web Applications and Services (ICIW 2011), St. Maarten, The Netherlands Antilles, pp. 130-135, March 20-25, 2011.
80	M. ELARBI, M. CHARFEDDINE, S. MASMOUDI, M. KOUBAA and C. BEN AMAR , Video Watermarking Algorithm with BCH Error Correcting Codes Hidden in Audio Channel, IEEE Symposium Series in Computational Intelligence 2011 - CICS - 2011 IEEE Symposium on Computational

	Intelligence in Cyber Security, pp. 164-170, April 11-15, 2011 - Paris, France
79	A. BEN HAMIDA, M. KOUBAA, C. BEN AMAR and H. NICOLAS, Hierarchical Traceability Of Multimedia Files, IEEE Symposium Series in Computational Intelligence 2011 - CICS - 2011 IEEE Symposium on Computational Intelligence in Cyber Security, Art. N° 5949389, pp. 108-113, April 11-15, 2011 - Paris, France.
78	A. EL ADEL, M. ZAIED and C. BEN AMAR , Learning wavelet networks based on Multiresolution analysis: Application to images copy detection, 2011 International Conference on Communications, Computing and Control Applications (CCCA'2011), Art. N° 6031444, Hammamet-Tunisia, March 3-5, 2011.
77	S. SAID, M. A. BORGI, B. BEN AMOR and C. BEN AMAR , 3D Face Recognition Using Multimatcher Approach, 8th International Conference on Systems, Signals and Devices (SSD'2011), Sousse-Tunisia, March 22-25, 2011.
76	N. BEN AOUN, H. ELGHAZEL and C. BEN AMAR , Graph modeling based video event detection, 7th International Conference on Innovations in Information Technology (IIT'2011), Abu Dhabi United Arab Emirates, Art. N° 5893799, pp. 114-117, April 25-27, 2011.
75	M. MEJDOUB and C. BEN AMAR , Hierarchical categorization tree based on a combined unsupervised-supervised classification, 7th International Conference on Innovations in Information Technology (IIT'2011), Abu Dhabi United Arab Emirates, Art. N° 5893800, pp. 118-123, April 25-27, 2011.
2010 (15 publications)	
74	N. BEN AOUN, M. ELARBI and C. BEN AMAR , "Multiresolution motion estimation and compensation for video coding", Proc. 10th IEEE International Conference on Signal Processing (ICSP'2010), Vol.2, pp. 1121-1124, 2010
73	S. MASMOUDI, M. CHARFEDDINE and C. BEN AMAR , A Robust Audio Watermarking Technique Based on the Perceptual Evaluation of Audio Quality Algorithm in the Multiresolution Domain, 10th IEEE International Symposium on Signal Processing and Information Technology (ISSPIT'2010), Luxor EGYPTE, pp. 326-331, December 15-18, 2010.
72	M. CHIHAOUI, W. BELLIL and C. BEN AMAR , Multi Mother Wavelet Neural Network based on Genetic Algorithm for 1D and 2D Functions' Approximation, IJCCI 2010, 2nd International Joint Conference on Computational Intelligence, ICNC International Conference on Neural Computation, Valencia Spain, pp. 429-434, October 24-26, 2010.
71	M. OTHMANI and C. BEN AMAR , A high dimension 3D object representation using Multi-Mother Wavelet Network, ISIVC'2010 IEEE International Symposium on Image/video Communications over fixed and mobile networks, special session "Advanced approach on 3-D computer vision", Rabat Morocco, DOI 10.1109/ISVC.2010.5656177, October 1-2, 2010.
70	R. EJBALI, M. ZAIED and C. BEN AMAR , Intelligent approach to train wavelet networks for Recognition System of Arabic Words, KDIR 2010, International Conference on Knowledge Discovery and Information Retrieval, Valencia Spain, pp. 518-522, October 25-28, 2010.
69	O. JEMAI, M. ZAIED, C. BEN AMAR and M. A. ALIMI, FBWN: an

	architecture of Fast Beta Wavelet Networks for Image Classification, 2010 IEEE World Congress on Computational Intelligence, IJCNN 2010, International Joint Conference on Neural Networks, Barcelona, pp. 1953-1960, July 18-23, 2010.
68	I. T. MEFTAH, N. L. THANH, A. MEFTAH and C. BEN AMAR , A Three-Layer Model for Emotion Exchange, 11th International Multisensory Research Forum (IMRF 2010) proceeding, Liverpool UK, June 16-19, 2010.
67	S. MASMOUDI, M. CHARFEDDINE and C. BEN AMAR , Two audio watermarking schemes using the least significant bit in the transform domains, 2nd IEEE International Workshop on Multimedia Computing and Communications (ICCCN 2010 MCC), Zurich Switzerland, August 2-5, 2010.
66	I. T. MEFTAH, N. L. THANH and C. BEN AMAR , Towards an algebraic modeling of emotional states, Fifth International Conference on Internet and Web Applications and Services (ICIW 2010), pp. 513-518, Barcelona Spain, May 9-15, 2010.
65	W. BEN SOLTANA, M. ARDABILIAN, L. CHEN and C. BEN AMAR , Adaptive Feature and Score Level Fusion Strategy Using Genetic Algorithms, 20th International Conference on Pattern Recognition, Istanbul Turkey, pp. 4316-4319, August 23-26, 2010.
64	M. CHARFEDDINE, M. ELARBI, M. KOUBAA and C. BEN AMAR , DCT Based Blind Audio Watermarking Scheme, IEEE International Conference on Signal Processing and Multimedia Applications (SIGMAP 2010) proceeding, Athens Greece, pp. 139-144, July 26-28, 2010.
63	W. BEN SOLTANA, M. ARDABILIAN, L. CHEN and C. BEN AMAR , Optimal fusion scheme selection framework based on genetic algorithms for multimodal face recognition, CORESA (COmpression et REprésentation des Signaux Audiovisuels) Conference, Lyon France, October 26-27, 2010.
62	M. OTHMANI, W. BELLIL and C. BEN AMAR , 3D Object Modeling using Multi-mother Wavelet Network, ACS/IEEE International Conference on Computer Systems and Applications proceeding, Hammamet Tunisia, 1-5. DOI=10.1109/AICCSA.2010.5586961, May 16-19, 2010.
61	W. BEN SOLTANA, Di HUANG, M. ARDABILIAN, L. CHEN and C. BEN AMAR , Comparison of 2D/3D Features and Their Adaptive Score Level Fusion for 3D Face Recognition, 5th International Symposium 3D Data Processing, Visualization and Transmission 3DPVT proceeding, Paris, France, May 17-20, 2010.
60	A. MEFTAH, M. ANTONINI and C. BEN AMAR , Lossless compression of 3D seismic data using a horizon displacement compensated 3D lifting scheme, Proceedings of SPIE-The International Society for Optical Engineering, Art. N° 7535, Vol. 7535, pp. 753503-1-8, San José, CA, USA, January 18, 2010.
2009 (9 publications)	
59	S. SAID, B. BEN AMOR, C. BEN AMAR and Mohamed DAOUDI, Fast and Efficient 3D Face Recognition using Wavelet Networks, IEEE International Conference on Image Processing – ICIP'2009, pp. 4153-4156, Cairo Egypt, November 7-11, 2009.
58	W. BEN SOLTANA, W. BELLIL, C. BEN AMAR and Mohamed Adel

	ALIMI, Multi Library Wavelet Neural Networks for 3D face recognition using 3D facial shape representation, 17th European Signal Processing Conference EUSIPCO'2009, pp. 55-59, Glasgow Scotland, August 24-28, 2009.
57	W. BEN SOLTANA, M. ARDABILIAN, L. CHEN et C. BEN AMAR , Une approche multimodale pour la reconnaissance du visage, inspirée d'une méthodologie anthropométrique, 6èmes Ateliers de Traitement et Analyse de l'Information : Méthodes et Applications (TAIMA'2009), pp. 33-38, Hammamet Tunisie, 4-9 Mai, 2009.
56	M. OTHMANI et C. BEN AMAR , Approximation des objets 3D par réseaux d'ondelettes tridimensionnelles, 6èmes Ateliers de Traitement et Analyse de l'Information : Méthodes et Applications (TAIMA'2009), pp. 207-213, Hammamet Tunisie, 4-9 Mai, 2009.
55	M. CHARFEDDINE, S. MASMOUDI, M. BELAAJ, et C. BEN AMAR , Un schéma aveugle de tatouage audio numérique opérant sur les bits les moins significatif dans le domaine fréquentiel utilisant un code correcteur d'erreurs, 6èmes Ateliers de Traitement et Analyse de l'Information : Méthodes et Applications (TAIMA'2009), pp. 371-377, Hammamet Tunisie, 4-9 Mai, 2009.
54	S. SAID, B. BEN AMOR, M. ZAIED, C. BEN AMAR et M. DAOUDI, Vers une Reconnaissance Faciale 3D *Rapide Utilisant les Réseaux d'Ondelettes, 6èmes Ateliers de Traitement et Analyse de l'Information : Méthodes et Applications (TAIMA'2009), pp. 23-31, Hammamet Tunisie, 4-9 Mai, 2009.
53	A. MEKAOUAR, C. BEN AMAR and T. REDARCE, New Vision Based Navigation Clue for a Colonoscope's Tip, Visualization, Image-guided Procedures and Modeling, SPIE International Symposium on Medical Imaging, Vol. 10 (1), pp. 72611B1-9, Lake Buena Vista, United States, Feb. 7-12, 2009.
52	A. MEKAOUAR, T. REDARCE and C. BEN AMAR , Image-guided navigation strategy for colonoscopy, the 3rd International Symposium on Bio-and Medical Informatics and Cybernetics (BMIC), Orlando, United States, 10-13 July 2009.
51	B. AKROUT, I. K. KALLEL, C. BEN AMAR and B. BEN AMOR, A new scheme of signature extraction for iris authentication, Sixth IEEE International Multi-conference on Systems Signals & Devices SSD'2009, pp. 1-5, Djerba Tunisia, March 23-26, 2009.
2008 (4 publications)	
50	A. BOUKHRISS, O. JEMAI and C. BEN AMAR , Images encrypt-compression by Wavelets Networks, 4th International Conference on Natural Computation – IEEE, ICNC'08, Jinan-China August 2008.
49	M. MEJDOUB, L. H. FONTELES, C. BEN AMAR and M. ANTONINI, Fast Indexing Method for image retrieval, using tree-structured Lattices, Content-Based Multimedia Indexing, 2008. CBMI 2008. pp. 365-372, London UK, 18-20 June 2008.
48	M. CHARFEDDINE, M. ELARBI and C. BEN AMAR , A blind audio watermarking scheme based on Neural Network and Psychoacoustic Model with Error correcting code in Wavelet Domain, IEEE International Symposium on Communications, Control and Signal Processing (ISCCSP 2008), pp. 1138-1143, Malta, March 2008.

47	M. ZAIED, O. JEMAI and C. BEN AMAR , Training of the Beta Wavelet Networks by the Frame Theory: Application to face Recognition, IEEE International Conference on Image Processing Theory, Tools & Applications, IPTA'2008, pp. 165-170, November 23-26, 2008, Sousse, Tunisia.
2007 (9 publications)	
46	M. KOUBAA, C. BEN AMAR and H. NICHOLAS, Adaptive Video Watermarking Using Mosaic Images, 2007 International Conference on Signal Processing and Communications, pp. 1143-1146, Dubai UAE, 24-27 Nov. 2007.
45	M. ELARBI, C. BEN AMAR and H. NICHOLAS, A Dynamic video watermarking scheme in the dwt domain, 2007 International Conference on Signal Processing and Communications, pp. 1131-1134, Dubai UAE, 24-27 November 2007.
44	M. MEJDOUB, L. H. FONTELES, C. BEN AMAR and M. ANTONINI, Fast algorithm for image database indexing based on lattices, Proceedings of European Signal Processing Conference (EUSIPCO), pp. 1799-1803, Poznan, September 2007.
43	W. BELLIL, M. OTHMANI and C. BEN AMAR , Initialization by Selection for Multi library Wavelet Neural Network Training, 3rd international workshop on Artificial Neural Networks and Intelligent Information Processing ANNIIP 07, pp 30-37, Anger France, 2007.
42	M. ELARBI, C. BEN AMAR et H. NICHOLAS, IVTN: Un Environnement d'Indexation de la Vidéo par Tatouage Numérique”, 4th International Conference : Sciences of Electronic, Technologies of Information and Telecommunications, CDROM edition, Tunisia, March 25-29, 2007.
41	M. MEJDOUB and C. BEN AMAR , Image retrieval system based on the Beta wavelet transform”, International Multi-Conference on Systems, Signals & Devices (SSD'2007), Hammamet Tunisia, March 19-22, 2007.
40	M. ELARBI, C. BEN AMAR and H. NICHOLAS, A Video Watermarking Scheme Resistant to Geometric Transformations, International Conference on Image Processing (ICIP 2007), Vol. V, pp. 481-484, San Antonio Texas USA, 16-19 September 2007.
39	M. ZAIED et C. BEN AMAR , Apprentissage des réseaux d'ondelettes Bêta par la théorie des "frames" : Application à la reconnaissance de visages, 5èmes Ateliers de Traitement et Analyse de l'Information : Méthodes et Applications (TAIMA'2007), pp. 47-54, Hammamet Tunisie, 21-26 Mai 2007.
38	M. MEJDOUB, C. BEN AMAR et M. ANTONINI. Extraction d'une signature floue se basant sur la combinaison de différentes bases d'ondelettes, 5èmes Ateliers de Traitement et Analyse de l'Information : Méthodes et Applications (TAIMA'2007), pp. 499-505, Hammamet Tunisie, 21-26 Mai 2007.
2006 (6 publications)	
37	M. KOUBAA, C. BEN AMAR and H. NICHOLAS, Collusion-resistant video watermarking based on video mosaicing, IEEE International Symposium on Multimedia (ISM 2006), pp. 161-168, 11-13 December 2006, San Diego, CA, USA. IEEE Computer Society 2006.
36	I. T. KHEMAKHEM and C. BEN AMAR , A Novel Approach of Detecting

	Salient Points Based on a New Beta Wavelets Family, Edition CDROM, "3rd International Symposium on Image/Video Communications over fixed and mobile networks", ISIVC'2006, Hammamet Tunisia, September 13-15, 2006.
35	H. CHETTAOUI, G. THOMANN, C. BEN AMAR and T. REDARCE, Extracting and tracking Colon's "Pattern" from Colonoscopic Images; The 3rd Canadian Conf. on Computer and Robot Vision, IEEE Comp. Soc., p. 65, 2006.
34	M. ELARBI, C. BEN AMAR and A. M. ALIMI, A novel image watermarking algorithm based on wavelet networks, Edition CDROM, "3rd International Symposium on Image/Video Communications over fixed and mobile networks", ISIVC'2006, Yasmine-Hammamet Tunisia, September 13-15, 2006.
33	A. MEFTAH, A. ELKEFI, M. ANTONINI and C. BEN AMAR , Low memory cost scan-based wavelet TRANSFORM FOR 3D multiresolution meshes using the Unlifted butterfly filter, Edition CDROM, "3rd International Symposium on Image/Video Communications over fixed and mobile networks", ISIVC'2006, Yasmine-Hammamet Tunisia, September 13-15, 2006.
32	M. EL ARBI, C. BEN AMAR and H. NICOLAS, Video watermarking algorithm based on neural network, IEEE International Conference on Multimedia & Expo (ICME'2006), Toronto Ontario, Canada, pp. 1577-1580, July 9-12, 2006.
2005 (9 publications)	
31	C. BEN AMAR. and W. BOUJARRA, SimulateurDX: Control Simulator of Multiresolution and VRML objects navigating in 3D space, proceeding of ACIDCA-ICMI'2005, SPS9, November 5-7, 2005.
30	M. ARBI and C. BEN AMAR , Neural Network Based image watermarking, proceeding of the 2nd international symposium on computational intelligence and intelligent informatics (ISCII2005), pp 135-141, Tunis-Gammarth, Tunisia, October 2005.
29	M. ARBI and C. BEN AMAR , Neural Network Based image watermarking, proceeding of the 2nd international symposium on computational intelligence and intelligent informatics (ISCII2005), pp 135-141, Tunis-Gammarth, Tunisia, October 2005.
28	A. ELKEFI, S. ABBADI, M. ANTONINI et C. BEN AMAR , Codage/Décodage multirésolution au fil de l'eau de maillages 3D surfaciques de grande résolution, Traitement et Analyse de l'Information - Méthodes et Applications (TAIMA), pp. 485-490, Hammamet, Tunisie, 26 septembre - 01 octobre 2005.
27	F. TURKI KARRA YOUSSEF, C. BEN AMAR and M. A. ALIMI, New generalized GVF external forces for snakes, proceedings of the 6th International Conference on Computer Vision, Pattern Recognition and Image Processing (CVPRIP), CDROM Edition, Salt Lake City, Utah, July 21-26, 2005.
26	A. ELKEFI, S. ABBADI, M. ANTONINI et C. BEN AMAR , Compression de maillages 3D de grande résolution par transformée en ondelettes au fil de l'eau, GRETSI'2005, pp. 1013-1016, Louvain-la-Neuve, Belgique, september 2005.
25	R. GUERMAZI, K. IDRISSE, C. BEN AMAR et A. BASKURT, Codage distribué des images fixes, 3ème conférence internationale sur les Sciences Electroniques, Technologies de l'Information et des Télécommunications

	"SETIT2005", pp. 51, édition CDROM, Sousse TUNISIE, 27-31 Mars 2005.
24	H. ELGHAZEL, K. IDRISSE, C. BEN AMAR et A. BASKURT, Approches textuelles pour la recherche d'images, 3ème conférence internationale sur les Sciences Electroniques, Technologies de l'Information et des Télécommunications "SETIT2005", pp. 124, édition CDROM, Sousse TUNISIE, 27-31 Mars 2005.
23	W. BELLIL, C. BEN AMAR and M. A. ALIMI, Beta wavelet networks for function approximation, 7th International Conference on Adaptive and Natural Computing Algorithms, vol. 1, pp. 18-21, Coimbra, Portugal, Riberio et al. (eds), Springer Computer Science, Springer Wien NewYork, March 21-23, 2005.
2004 (8 publications)	
22	C. BEN AMAR and M. MIRAOUI, Advances in Wavelets Based Image Processing and Compression, Hermes Science Publications, Second International Conference on Intelligent Access to the Multimedia Documents on the Internet, Medianet'04, pp. 239-246, Tozeur-Tunisia, November 25-28, 2004.
21	A. ELKEFI, M. ANTONINI and C. BEN AMAR , 3D Scan-Based Wavelet Transform for Multiresolution Meshes, 12th European conference Eurasip EUSIPCO, Vienna-Austria, CDROM Edition, September 6-10, 2004.
20	S. FTERICH and C. BEN AMAR , Crypto-compression d'images fixes par la méthode de quadtree optimisée et AES, CORESA'04, ENIC Télécom, pp. 169-173, Lille-France, 25-26 mai 2004.
19	W. BELLIL, C. BEN AMAR , M. ZAIED et M.A. ALIMI, La fonction bêta et ses dérivées : vers une nouvelle famille d'ondelettes, premier congrès international de Signaux, Circuits et Systèmes", pp. 201-207, Monastir-Tunisie, 18-21 mars 2004.
18	S. ELKOSANTINI, A. BOURAS, Y. OUZROUT et C. BEN AMAR , Intégration de systèmes d'information techniques dans le contexte de planification, premier congrès international de Signaux, Circuits et Systèmes", pp. 634-637, Monastir-Tunisie, 18-21 mars 2004.
17	H. ELGHAZEL, K. IDRISSE, A. BASKURT et C. BEN AMAR , Analyse et identification de bactéries dans les images microscopiques couleur de biofilms, premier congrès international de Signaux, Circuits et Systèmes", pp. 573-576, Monastir-Tunisie, 18-21 mars 2004.
16	A. ELKEFI, M. ANTONINI et C. BEN AMAR , Transformée en Ondelettes au Fil de l'Eau pour les Maillages 3D, Premier Congrès International de Signaux, Circuits et Systèmes", Monastir-Tunisie, pp. 61-64, 18-21 mars 2004.
15	R. KACHOURI, M. ABID et C. BEN AMAR , Design of dct_2d toward FPGA, First International Symposium on Control, Communications and Signal Processing ISCCSP04, Hammamet-Tunisie, pp. 713-716, 21-24 Mars 2004.
2003 (6 publications)	
14	A. ELKEFI, M. ANTONINI et C. BEN AMAR , Compression de maillages 3D multirésolutions, Rapport Interne I3S, (I3S/RR-2003-30-FR), Novembre 2003.
13	M. REKIK et C. BEN AMAR , Compression géométrique multirésolution des surfaces 3D : état de l'art, Journées scientifiques francophones jsf'03, 20-22,

	Tozeur-Tunisie, pp. 504-510, décembre 2003.
12	R. KACHOURI, C. BEN AMAR et M. ABID, Etude d'un Codeur JPEG en vue de son Implantation sur FPGA, Journées Scientifiques Francophones Jsf'03, Tozeur-Tunisie, pp. 511-515, 20-22 Décembre 2003.
11	A. SAMET, C. BEN AMAR et M. A. ALIMI, Ondelettes, paquets d'ondelettes et réseaux d'ondelettes pour la compression d'images, GEI, édition CDROM, Mehdi-Tunisie, 16-18 Mars 2003.
10	W. BELLIL, C. BEN AMAR et M. A. ALIMI, Beta Wavelet Based Image Compression, SSD03, abstract pp.77, CDROM Edition, Sousse-Tunisie, 26-28 Mars 2003.
9	M. ZAIED, C. BEN AMAR et M. A. ALIMI, Award a New Wavelet Based Beta Function, SSD03, abstract pp.185, CDROM Edition, Sousse-Tunisie, 26-28 Mars 2003.
1991-2002 (8 publications)	
8	C. BEN AMAR , M. OUALI et M. A. Anis ZOUARI, Modélisation et Simulation des Flux physiques : Application à la gestion de flux d'athlètes dans un défilé sportif, Journées Tunisiennes d'Electrotechnique et d'Automatique (J.T.E.A), Sousse-Tunisie, 5-7 Mars 2002.
7	C. BEN AMAR , M. OUALI et F. BEZZOUIA, ARENA et la Simulation des Flux : Application à la Restauration d'Athlètes, GEI 2002, Hammamet-Tunisie, 23-25 Mars 2002.
6	S. PERRIN and C. BEN AMAR , Modeling and Simulation Approach of CCD Camera, ACIDCA 2000, pp. 103-111, Monastir-Tunisie, 23-25 Mars 2000.
5	C. BEN AMAR , J. ZRIDA and R. MHIRI, Neural network based adaptive deadbeat controllers for linear systems. 11ème European Simulation Multicontrols (ESM), pp.34-36, Istanbul, 01-04 Juin 1997.
4	C. BEN AMAR , T. REDARCE et A. JUTARD, Aide au Placement de Capteurs. Journées Tunisiennes d'Electrotechnique et d'Automatique (J.T.E.A), Vol.1, pp.271-276, Hammamet-Tunisie, 5-7 Novembre 1994.
3	C. BEN AMAR , T. REDARCE et A. JUTARD, Simulation graphique d'un poste de travail pour la programmation hors-ligne d'un système de vision. Proceeding des Journées Tunisiennes d'Electrotechnique et d'Automatique (J.T.E.A), Vol.1, pp.276-284, Hammamet-Tunisie, 5-7 Février 1993.
2	C. BEN AMAR , T. REDARCE, Y. LUCAS et A. JUTARD, Programmation hors-ligne et contrôle dimensionnel. Journées Tunisiennes d'Electrotechnique et d'Automatique (J.T.E.A), Vol.1, pp.20-27, Hammamet-Tunisie, 5-9 Fév. 1992.
1	C. BEN AMAR , T. REDARCE et Y. LUCAS, Programmation hors-ligne des systèmes de vision industriels : application au contrôle dimensionnel. Congrès International de Génie Industriel, Tome 2, pp.1047-1048, Tours, 20-22 mars 1991.

▼ LANGUAGES

- ***Arabic***: mother tongue
- ***French***: fluent spoken and written
- ***English***: very good speaking, writing and reading ability

▼ ADDITIONAL INFORMATION

- Chair of the national jury for recruitment of assistant professors in Signal and Image Processing for the academic years 2012-2013 and 2013-2014
- Conference chair of the 3rd International Conference on Intelligent Machines ICIM'2014 to be held in Tunis-Tunisia from 1 to 4 May 2014.
- Honorary chair of the International Conference on Information Assurance and Security IAS'2013 to be held in Tunis-Tunisia from 4 to 6 December 2013.
- Program chair of the International Conference on Individual and Collective Behaviors in Robotics ICBR'2013 to be held in Tunis-Tunisia from 15 to 17 December 2013.
- Doctoral Consortium Workshop Organizer behalf the International Conference on Advanced Logistics and Transport ICALT'2013 organized in Sousse-Tunisia from 29 to 31 May 2013.
- Visiting professor for one month in 2013 at the LaBRI Laboratory of Bordeaux 1 University, France.
- Visiting professor for one month in 2012 at the LIRIS Laboratory of the Central School of Lyon (ECL), France.
- Visiting professor for one month in 2012 at the LIRIS Laboratory of the Lyon2 University, France.
- General Chair of the 3rd International Conference on Next Generation Networks and Services NGNS'2011 organized in Hammamet-Tunisia from 18 to 20 December 2011.
- Director of the National Engineering School of Sfax (ENIS) from February to July 2011.
- Director of Studies and Vice Director of the National Engineering School of Sfax (ENIS) from September 2005 to January 2011.
- President of the commission of Theses and clearances in Computer Systems Engineering "ISI" Doctoral School "Science and Technology" ENIS since 2011.
- Co-director of the REGIM laboratory (REsearch Groups on Intelligent Machines), University of Sfax, National School of Engineering, University of Sfax, since 2011.
- Member of the national committee for the evaluation of joint Tunisian/French research projects CMCU since 2011.
- Visiting professor for one month in 2010 at the I2S/PRISME Laboratory of Orleans-

University.

- Visiting professor for one month in 2010 at the LIRIS Laboratory of the Lyon2 University, France.
- Chair of the Organizing Committee of the conference on Information Processing and Analysis: Methods and Applications TAIMA'2009, organized in Hammamet-Tunisia from 4 to 9 May 2009.
- Member of the National committee of Skills certification since 2009
- Visiting professor for one month in 2009 at the LIRIS Laboratory of the Lyon2 University, France.
- Chair of the IEEE (Institute of Electrical and Electronics Engineers) SPS Tunisia Chapter (section 8) since January 2009
- Chair of the Workshop on Intelligent Machines: Theory and Applications (WIMTA'2008), Monastir, Tunisia.
- Visiting professor for one month in 2008 at the LIRIS Laboratory of the Central School of Lyon (ECL), France.
- IEEE senior member since 2008
- Certified in LPIC-1 (Linux Professional Institute Certification Level 1) from Linux Professionnel Institute since may 2008.
- Coordinator of the professional Masters TICE ("Technologies de l'Information et du Commerce Electronique") since 2005 and of LL ("Logiciels Libres") and SSI ("Sécurité des Systèmes Informatiques") since 2008.
- Visiting professor for one month in 2007 at the LIRIS Laboratory of the Lyon2 University, France.
- Chair of the "Free Operating Systems and Softwares" Spring School organized in Gammarth-Tunisia from 21 to 25 March 2007.
- Tutor and teacher (since 2007) in the Distance professional Virtual University Project VCIEL (Visualisation et Conception Infographiques En Ligne) supported by the AUF (Francophone University Agency) with the collaboration of university of Lyon2, University USTHB of Alger, university of Lyon1, University of Geneva, University of Lausanne EPFL, university of Sfax.
- Visiting professor for two months in 2006 at the LIESP Laboratory of the National Institute of Applied Sciences (INSA) Lyon, France.
- Nominated from the higher ministry of education to participate with the consultative committee of the ministry of telecommunication and transport for the evaluation of some private projects in the field of innovation and Information Technology, 2006.
- Chair of the WIMTA'2005 conference (forth Workshop on Intelligent Machines and Their Applications) organized in MONASTIR-Tunisia in March, 2005.

- Visiting professor for five months in 2005 at the LIM Laboratory of the Central School of Lyon (ECL), France.
- Supervisor of the technical committee for the maintenance of the local Area network at the National Engineering University of Sfax and for the internet activities, from 2000 to 2005.
- Chair of the Organizing Committee of the International Conference on Machine Intelligence (ACIDCA-ICMI'2005), organized in Tozeur-Tunisia from 5 to 7 November 2005.
- Supervisor of the administrative committee involved in the elaboration of technical documents related to the computer machines, peripherals and pedagogical material specification and purchasing, from 2000 to 2005.
- Chair of the Matlab Winter School organized in Tozeur-Tunisia from 26 to 30 December 2004.
- Member of the scientific committee of the WIMTA'2004 conference (First Workshop on Intelligent Machines and Their Applications) organized at ENIS-Tunisia in 2004-07-06.
- Chair of the organization committee of SCS'04 (Signaux, Circuits et Systèmes) conference held in Monastir-Tunisia from 18 to 21 March 2004.
- Member of the organization committee of SSD'03 (Signals Systems and Design) conference held in Sousse-Tunisia from 26 to 28 March 2003.
- Invited regularly (each year) for short research visits to many laboratory in Europe to supervise co-directed students.
- Member of the Sfax University delegation who visited the Lock Haven University of Pennsylvania (USA) for six weeks (from 20 October to 30 November 2001) to have intensive courses on scientific English and Distance learning.
- Frequent use of the computer