

Laboratoire: Signaux, Systèmes et Composants

Acronyme: LSSC



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Présentation du laboratoire :

Le Laboratoire Signaux Systèmes & Composants (LSSC) est un laboratoire de l'Université Sidi Mohammed Ben Abdallah (USMBA), sis à la Faculté des Sciences et Techniques de Fès (FSTF). La mission du LSSC étant de CONTRIBUER ET RENFORCER LA RECHERCHE, LE DEVELOPPEMENT TECHNOLOGIQUE ET L'INNOVATION au sein l'université l' USMBA.

Le LSSC est monté autour de thématiques fondatrices depuis une trentaine d'années qui sont les composants électroniques, les signaux et les systèmes de télécommunications et l'ingénierie des matériaux. Ainsi les activités de recherche menées au sein du laboratoire sont pluridisciplinaires mais complémentaires, elles vont de la synthèse de matériaux et la caractérisation de leurs propriétés, leur mise en forme et leur positionnement dans des dispositifs tels les capteurs, jusqu'à la conception et l'implémentation de systèmes intelligents et autonomes, dotés de capacité de traitement à base d'intelligence artificielle pour remplir et optimiser différentes fonctions pour différentes applications (Transmission de données, Conduite, Surveillance, Sécurité, diagnostic-health monitoring, gestion de l'énergie....) .

Thématiques de recherche :

- J **Thème 1 : Signaux, télécommunications, Transmission optique, Antennes & CEM :**
Enseignants impliqués :
N. El Amrani El Idriss, F. Abdi, H.Ghennioui, M. Zouak, H. Kabbaj, N. El Ouazzani, L. Abbassi, A. Alami Hassani

- J **Thème 2 : Systèmes De Gestion De L'énergie, Energies Renouvelables, Capteurs Et Réseaux.**
Enseignants impliqués :
M.Lahbabi, K. Zared, D. Tahri, M. Abarkan, N. El Ouazzani

- J **Thème 3 : Image, Parole, Vidéo, Intelligence artificielle et systèmes embarqués.**
Enseignants impliqués :
H.Ghennioui, A. Alami Hassani, K. Kamal, F.Abdi

- J **Thème 4 : Ingénierie des matériaux fonctionnels : synthèse, caractérisation et mise en dispositifs.**
Enseignants impliqués :
T. Lamcharfi , N-S.Echatoui, Mf.Bouayad, . N. Idrissi Kandri, FZ.Ahyyaje, E.Aqachmar , M. Amarass, A.Elbasset, F.Abdi.

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Production Scientifique des 5 dernières années :

Titre complet de la publication	Auteurs	périodique scientifique	Volume, issue, pages et année
A review of optical errors and available applications of deflectometry technique in solar thermal power applications	M. El Ydrissi, H. Ghennioui , E.-G. Bennouna and F. Abdi	Renewable and Sustainable Energy Reviews	Volume 116, 109438, pp. 1-32, December 2019
Validation of surface solar irradiances estimates and forecast under clear-sky conditions from the CAMS McClear model in Benguerir, Morocco	O. Alani, A. Ghennioui, A. Alami Merrouni, H. Ghennioui , Y.-M. Saint-Drenan, and P. Blanc	AIP Conference Proceedings	Volume 2126, Issue 1, 190005-1-190005-6, 17 July 2019
A comparative study of N-phase shifting algorithms and their application on optical quality control of solar concentrators	Massaab El Ydrissi, Hicham Ghennioui , El Ghali Bennouna, Farid Abdi , and Elmaazouzi Zakaria	AIP Conference Proceedings	Volume 2123, Issue 1, 020077-1-020077-9, 17 July 2019
Real-time spectrum sensing of multiple OFDM signals using Low cost SDR based prototype for cognitive	F.-Z. El Bahi, H. Ghennioui and M. Zouak	International Wireless Communications and Mobile Computing Conference, IWCMC 2019	IWCMC 2019 : 2074-2079, 22 July 2019

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Blind separation of complex-valued satellite-AIS data for marine surveillance: A spatial quadratic timefrequency domain approach	Omar Cherrak, Hicham Ghennioui , Nadege Thirion Moreau, El Hossein Abarkan	International Journal of Electrical and Computer Engineering	Vol 9, No 3, pp1732-1741, June 2019
Spectrum Sensing Technique of OFDM Signal under noise uncertainty based on Mean Ambiguity Function for Cognitive Radio	F.-Z. El Bahi, H. Ghennioui and M. Zouak	Physical Communication Journal	Volume 33, Pages 142-150, April 2019
Geometric, optical and thermal analysis for solar parabolic trough concentrator efficiency improvement using the photogrammetry technique under semiarid climate	Massaab Elydrissi, Hicham Ghennioui , El Ghali Bennoun, Farid Abdi	Energy Procedia	Volume 157, Pages 1050-1060, January 2019
Geometric and optical efficiency study for solar parabolic trough concentrator using the deflectometry technique.	M. El Ydrissi, H. Ghennioui , E.-G. Bennouna and F. Abdi	Lecture Notes in Electrical Engineering	Vol. 519, pp. 647:655, First Online 02 August 2018
Preconditioned optimization algorithms solving the problem of the non unitary joint block diagonalization: application to blind separation of convolutive mixtures	O. Cherrak, H. Ghennioui , N. Thirion-Moreau and E.-H. Abarkan	Multidimensional Systems and Signal Processing	Volume 29, Issue 4, pp 1373–1396, October 2018
Pilot decontamination over time frequency and space domains in multicell massive MIMO system	L. Hachad, F. Mrabti , H. Ghennioui and M. Zouak	International Journal of Electrical and Computer Engineering	Vol 9, No 3, pp1732-1741, June 2019
DOA estimation based on time-frequency music application to Massive MIMO systems	L. Hachad, F. Mrabti , H. Ghennioui and M. Zouak	International Conference on Advanced Technologies for Signal and Image Processing	ATSIP 2017, 8075582, 2017
A semi-analytical method for blind separation of cyclostationary sources in digital communications	A. Brahmi, H. Ghennioui , C. Corbier, M. Lahbabi and F. Guillet	International Conference on Advanced Technologies for Signal and Image Processing	ATSIP 2017, 8075607, 2017
PAPR reduction using Tone Reservation method with Preconditioned Conjugate Gradient optimization Algorithm	H. Adelali, H. Ghennioui , M. El Kamili	Proceedings - International Conference on Wireless Networks and Mobile Communication, WINCOM	WINCOM 2017, 8238180, 2017
Performance Evaluation of Energy Detector Based Spectrum Sensing for Cognitive Radio using NI USRP-2930	F.-Z. El Bahi, H. Ghennioui and M. Zouak	International Journal of Electrical and Computer Engineering	Vol. 7, No. 4, pp. 1934 – 1940, August 2017
Recognition of OFDM and SCLD Signals based on Second-Order Statistics	M. Firdaoussi, H. Ghennioui and M. El Kamili	Lecture Notes in Electrical Engineering	vol 397, pp. 321-329, 2017
Blind Separation of Cyclostationary Sources Sharing Common Cyclic Frequencies Using Joint Diagonalization Algorithm	A. Brahmi, H. Ghennioui , C. Corbier, M. Lahbabi and F. Guillet	Mathematical Problems in Engineering	vol. 2017, Article ID 2546838, 9 pages, 2017
Blind Separation of	A. Brahmi, H. Ghennioui , C.	Lecture Notes in Computer	vol. 10169, pp. 449-

Cyclostationary Sources with Common Cyclic Frequencies	Corbier, M. Lahbabi and F. Guillet	Science	458, 2017
Spectrum Sensing technique for Cognitive Radio of multiple OFDM Signals based on Singular Value Decomposition	F.-Z. El Bahi, H. Ghennioui and M. Zouak	Proceedings - 2016 International Conference on Wireless Networks and Mobile Communications, WINCOM 2016: Green Communications and Networking	WINCOM 2016, 7777223, pp. 253-257, 2016
Recognition of OFDM and SCLD signals based on the Generalized Mean Ambiguity Function	M. Firdaoussi, H. Ghennioui and M. El Kamili	Proceedings - 2016 International Conference on Wireless Networks and Mobile Communications, WINCOM 2016: Green Communications and Networking	WINCOM 2016, 7777219, pp. 230-234, 2016
Foreword	M. El-Kamili, I. Berrada, A. Badri, H. Ghennioui	Proceedings - 2016 International Conference on Wireless Networks and Mobile Communications, WINCOM 2016: Green Communications and Networking	WINCOM 2016, 7777230, 2016
Blind identification of FIR MIMO systems driven by cyclostationary inputs in wireless communications using joint block diagonalization	A. Brahmi, H. Ghennioui , C. Corbier, M. Lahbabi and F. Guillet	Proceedings - 2016 International Conference on Wireless Networks and Mobile Communications, WINCOM 2016: Green Communications and Networking	WINCOM 2016, 7777184, pp. 17-22
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A new accurate parameter estimation method for unbalanced three-phase system based on correlation function	O. Cherrak, M. Omari, H. Ghennioui , M. Lahbabi , E.-H. Abarkan	International Conference on Wireless Networks and Mobile Communications	WINCOM 2015 7381341, 2016
Non-unitary joint zero-block diagonalization of matrices using a conjugate gradient algorithm	O. Cherrak, H. Ghennioui , E.-H. Abarkan , N. Thirion-Moreau, E. Moreau	European Signal Processing Conference	EUSIPCO 2015 7362710, pp. 1880-1884, 2015
Foreword	I. Berrada, H. Ghennioui	International Workshop on RFID and Adaptive Wireless Sensor Networks, RAWSN 2015 - In conjunction with the International Conference on NETWORKED sYSTEMS, NETYS 2015	RAWSN 2015, 7173265, 2015
A Time Frequency Tensor Framework for DOA Estimation: Application to MIMO Systems	L. Hachad, O. Cherrak, H. Ghennioui , F. Mrabti and M. Zouak	International Conference on Wireless Networks and Mobile Communications	WINCOM 2019 pp. , 2019
Foreword	H. Ghennioui , M. El Kamili, I. Berrada,	International Conference on Wireless Networks and Mobile Communications	WINCOM 2019 pp. 97-102, 2019
Indoor Spectrum Occupancy in Morocco for Cognitive Radio applications: Measurements and Analysis	Fatima Zahra El Bahi; Hicham Ghennioui ; Mohcine Zouak	International Conference on Wireless Networks and Mobile Communications	WINCOM 2019 pp. 24-29, 2019
Short term solar irradiance forecasting using artificial neural network for a semi-arid climate in Morocco	Omaima El Alani; Hicham Ghennioui	International Conference on Wireless Networks and Mobile Communications	WINCOM 2019 pp. 129-135, 2019
An optical qualification technique for solar parabolic trough concentrators using the	Massaab El Ydrissi; Hicham Ghennioui ; Farid Abdi ; El Ghali Bennouna	International Conference on Wireless Networks and Mobile Communications	WINCOM 2019 pp. 168-173, 2019

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New PAPR reduction technique combining the Tone Reservation based on PCG algorithm with Clipping	Hicham Ghennioui ; Hajar Abdelali; Mohamed El Kamili; Mohamed Firdaoussi	International Conference on Wireless Networks and Mobile Communications	WINCOM 2019 pp. 216-221, 2019
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Design and simulation of a 1x2 dual band array antenna for medical monitoring systems	Youssef El Gholb; Alejandro Gil Martinez; Najiba El Amrani El Idrissi; Miguel Poveda-Garcia; Jose-Luis Gómez-Tornero	International Conference on Wireless Networks and Mobile Communications	WINCOM 2019 pp. 57-60, 2019
High Gain Miniaturized MPA with MSS for FemtoSat Communications	Mohamed El Bakkali;Faisal Tubbal;Gurjot Singh Gaba;Lavish Kansal; Najiba El Amrani El Idrissi	International Conference on Advanced Informatics for Computing Research ICAICR 2019	ICAICR 2019. Pp 357-369
Analysis and Optimization of a Very Compact MPA with Parasitic Elements for Inter-swarm of CubeSats Communications	Mounsef, A., Tabakh, I., EL Amrani El Idrissi, N.	International Journal on Communications Antenna and Propagation	Vol 9, No 4 (2019) Pp 236-246
S-Band CPW-Fed Slot Antenna with 2D Metamaterials for CubeSat Communications	EL Bakkali, M., Tubbal, F., Gaba, G.S., Kansal, L., EL Amrani El Idrissi, N.	Communications in Computer and Information Science 2019	Vol 1076, (2019) Pp 357-369
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Optimum design of a tri-band MPA with Parasitic elements for CubeSat communications using Genetic Algorithm	Mohamed El Bakka1i, Faisal Tubbal, Gurjot Singh Gaba, Lavish Kansal and N. EL Amrani El Idrissi	Communications in Computer and Information Science 2019	Vol 1076, Pp344-356
Optimum design of a tri-band MPA with Parasitic elements for CubeSat communications using Genetic Algorithm	Mohamed El Bakkali ; Najiba El Amrani El Idrissi ; Faisal Em Tubbal ; Gurjot Singh Gaba	International Conference on Wireless Networks and Mobile Communications	916-1-5386-1330.0 Pp 1-4
Wide-band circular antenna for 5G applications	El Gholb, Y., El Bakkali, M., EL Amrani El Idrissi, N.	Proceedings of the 2018 International Conference on Optimization and Applications, ICOA 2018	Pp 167-171
3G, 4G Antennas: what's next?	Y. El Gholb, M. El Bakkali, A. Mounsef, N. EL Amrani	International Journal of Scientific & Engineering Research	Volume 9, Issue 3 March-2018
High Gain Patch Antenna Array with Parasitic Elements for CubeSat Applications	Mohamed El Bakkali ; Gurjot Singh Gaba ; Faisal EmTubbal ; Najiba El Amrani El Idrissi	IEEE Indian Conference on Antennas and Propagation (InCAP) 2018	Pp 1 - 5
5G: An Idea Whose Time Has Come	Youssef El Gholb, Najiba El Amrani El Idrissi, Hicham Ghennioui	International Journal of Scientific & Engineering Research	Volume 8, Issue 3, March 2017
Modeling and Implementing Ontology for Managing Learners' Profiles	Korchi Adil, EL Amrani El Idrissi Najiba , Oughdir Lahcen	International Journal of Advanced Computer Science and Applications (IJACSA)	Volume 8 Issue 8, August 2017. Pp. 144 – 152.
A 28 GHz Rectangular Patch Antenna with Parasitic Element for Small Satellite Applications	M. El Bakkali, Y. El Gholb, I. Tabakh, A. Mounsef, N. EL Amrani El Idrissi	ACM International Conference Proceeding Series 2017	Article N° 14 Pp 1-5
Proximity Effect of Metallic Environments on Cylindrical	Allabouche Kaoutar, Fabien Ferrero, Leonardo Lizzi, Jean-	International Journal of Microwave and Optical	VOL.12, No.4, JULY 2017.

Dielectric Resonator Antenna for Smart Metering Applications	Marc Ribero Jorio Mohammed, El Amrani El Idrissi Najiba	Technology (IJMOT)	Pp. 249 A 258
Inter-cell Interference Mitigation through Flexible Resource Reuse, LP-OFDM and Coordination techniques for LTE Advanced in Dense Urban Area	Younes. Balboul, Najiba EL Amrani EL Idrissi	Indonesian Journal of Electrical Engineering and Computer Science (IJECS),	Vol. 3, No. 3, September 2016, pp. 527 ~ 533
Mobile Phones' social impacts on sustainable human development: case studies, Morocco and Italy.	Kaoutar Allabouche, Omar Diouri, Ahmed Gaga, Najiba El Amrani El Idrissi	The International Journal Entrepreneurship and Sustainability Issues	2016 Volume 4 Number 1, pp 64 – 73.
Impact of a simple DGS size on the radiation characteristics of an elementary MPA	Ikram Tabakh, Najiba El Amrani El Idrissi and Mohamed Jorio	International Journal of Scientific & Engineering Research (IJSER)	Volume 7 Issue 7, Jul. 2016. pp. 985-994
Comparative Analysis of Different Excitation Techniques for Cylindrical and Dielectric Resonator Antenna	Allabouche, K., El Amrani El Idrissi, Najiba	Lecture Notes in Electrical Engineering	Vol 397 Pp 311-319
Design and Optimization of a New Slotted Patch Antenna for RFID Applications	Ikram. Tabakh, Mohamed Jorio, Najiba El Amrani El Idrissi and Tomader Mazri,	International Journal on Communications Antenna and Propagation (IRECAP)	Volume 6 Issue 1, Feb 2016. pp. 33-38
Comparative Analysis of Microstrip and Dielectric Resonator Antennas for UMTS Application	Kaoutar Allabouche, Tomader Mazri, Mohammed Jorio, Najiba El Amrani El Idrissi	International Journal on Communications Antenna and Propagation (IRECAP)	Vol 5, No 1 (2015) pp 33-38
A modeling learner approach in a computing environment for human learning based on ontology	Adil KORCHI, Najiba EL AMRANI EL IDRISSE , Adil JEGHAL, Lahcen OUGHDIR and Fayçal MESSAOUDI.	International Journal of Computer Engineering & Technology (IJCET)	Volume 6, Issue 9, Sep 2015, pp. 21-31
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LTE Inter-Cell interference management to improve the quality reception in downlink radio resources links,	Younes BALBOUL, Fatiha MRABTI, Najiba EL AMRANI EL IDRISSE ,	International Journal of Electronics and Communication Engineering & Technology (IJECET),	Volume 5, Issue 3, March (2014), pp. 51-57
Design and simulation of a dual band microstrip patch antenna for an emergency medical service system	A. Mounsef, I. Tabakh, M. El Bakkali, Y. El Gholb, N. El Amrani El Idrissi	Proceedings- international conference on wireless networks and mobile communications (WINCOM'17),	Pp 187-190
A 9-shaped Antenna for 5G Applications	Y. El Gholb, M. El Bakkali, A. Mounsef, I. Tabakh, N. El Amrani El Idrissi	Proceedings- international conference on wireless networks and mobile communications (WINCOM'17),	Pp 48-51
A G-shaped Antenna with parasitic element for 5G Applications	M. El Bakkali, Y. El Gholb, A. Mounsef, I. Tabakh, N. El Amrani El Idrissi ,	Proceedings- international conference on wireless networks and mobile communications (WINCOM'17),	Pp 58-61
MPA radiation characteristics evolution through a DGS size reduction study	IKRAM TABAKH EL AMRANI EL IDRISSE, N.	International Conference on Wireless Networks and Mobile Communications (WINCOM 2016)	Pp 1-5

Design and simulation of an optimized slotted patch antenna for RFID reader applications	Tabakh, I., Jorio, M., El Amrani El Idrissi, N. , Mazri, T.	International Conference on Information Technology for Organizations Development, IT4OD 2016	Pp 1-6
Bandwidth Enhancement of Rectangular for UMTS Application	Allabouche, K., El Amrani El Idrissi, Najiba	International Conference on Information Technology for Organizations Development, IT4OD 2016	Pp1-5
Cylindrical dielectric resonator antenna for multiband communication systems	Allabouche, K., Jorio, M., El Amrani El Idrissi, N., Mazri, T.	Proceedings -5th Workshop on Codes, Cryptography and Communication Systems WCCCS 2014	Pp21-24
Design & simulation of UMTS microstrip multilayer antenna	Kaoutar, A., El Idrissi Najiba, E.A. , Mohammed, J., Tomader, M	Proceedings of 2014 Mediterranean Microwave Symposium (MMS2014)	Pp 66-69
Feature selection methods and genomic big data: a systematic review	K. Tadist, S. Najah, N. S. Nikolov, F. Mrabti A. Zahi	Journal of Big Data	Vol. 6, No. 1, p. 79. 2019
Genetic algorithm for vertical handover (GAFVH) in a heterogeneous networks	Iman Zubeiri, Yasmina El Morabit, Fatiha Mrabti	International Journal of Electrical and Computer Engineering (IJECE)	Vol. 9, No. 4, August 2019, pp. 2534~2540
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A Secure and Efficient Remote data Auditing Scheme for Cloud Storage	Y. EL Morabit, F. Mrabti , E. H. Abarkan ,	Journal of Information and Communication Convergence and Engineering	Vol. 17, N. 1, pp. 1-20, Mar. 2019.
Spectrum Management Strategy for Cognitive Radio Networks	I. El Ghoubach, F. Mrabti , R. Ben Abbou,	Journal of King Saud University For Computer and Information Sciences	Feb. 2019.
Achieving Secure, Flexible, Effective and Privacy Preserving Data Access Control in Cloud Computing	Y. EL Morabit, F. Mrabti	International Journal of Engineering Research and Technology.	Vol. 12, N. 1, pp. 24-32, 2019
The Allocation in Cognitive Radio Network: Combined Genetic Algorithm and ON/OFF Primary User Activity Models	I. El Ghoubach, F. Mrabti , R. Ben Abbou	Recent Patents Comput. Sci.	Vol. 11, No. 3, pp. 196~205, Nov. 2018.
A Blast implementation in Hadoop MapReduce using low cost commodity hardware	Y. EL Morabit, F. Mrabti , E. H. Abarkan ,	Lecture Notes in Electrical Engineering	Vol. 397. pp.3-14, 2017. Springer
Efficient secure and privacy preserving data access control scheme for multi-Authority personal health record systems in cloud computing	K. Tadist, F. Mrabti A. Zahi S. Najah,	Procedia Computer Science,	Vol 127, pp : 69-75, 2018
A review of optical errors and available applications of deflectometry technique in solar thermal power applications	I. El Ghoubach, F. Mrabti , R. Ben Abbou	International Conference on Wireless Networks and Mobile Communications (WINCOM)	2016: Green Communications and Networking Proceedings, 2016, pp. 174~179

A Novel Magic Square View Topology of a PV System under Partial Shading Condition	L.E.Iysaouy, M.Lahbabi ,A. Oumnad	Energy Procedia, Elsevier,	Vol.157, PP. 1182-1190 2019
Enhancing the Performances of PV Array Configurations Under Partially Shaded Conditions: A Comparative Study	L.E.Iysaouy, M.Lahbabi ,A. Oumnad	International Journal of Renewable Energy Research Journal of Renewable Energy Research	Vol. 8, PP. 1779–1790, 2018
Impact of CL and LCL Low Pass Output Filters on High Order Harmonics of Single Stage Photovoltaic Microinverter	L El Iysaouy, A Baskys, E Bielskis, M Lahbabi , A Oumnad	IEEE International Symposium on Advanced Electrical and Communication Technologies	PP.1–5, Nov 2018. Rabat Morocco
Impact of flyback transformer and switch parameters on efficiency of single stage photovoltaic microinverter	L El Iysaouy, A Baskys, E Bielskis, M Lahbabi , A Oumnad	IEEE Open Conference of Electrical, Electronic and Information Sciences (Estream)	PP.1–4, Vilnius, Lithuania 26 Avril 2018
Modelling and performance improvement of PV array configurations under partial shading conditions to overcome the mismatching power losses	L El Iysaouy, A Baskys, E Bielskis, M Lahbabi , A Oumnad	1 st Online International Conference on Nanoscience and Nanotechnology (N@NO'2017)	Johannesburg, South Africa 2–3 December 2017,
Time Dependent Dielectric Breakdown in high quality SiC MOS capacitors	J. Chbili M. Lahbabi	Materials science forum	Vol. 858 pp. 615 – 618 2016
Modeling Early Breakdown Failures of Gate Oxide in SiC Power MOSFETs	J. Chbili M. Lahbabi	IEEE Trans Elect Device	Vol. 63 PP. 3605 – 3615 2016
Investigation of microinverter based on the two-switch DC-DC flyback converter topology.	L El Iysaouy, E Bielskis, M Lahbabi , , A Baskys, A Oumnad	IOP Conf. Series: Earth and Environmental Science	Vol. 161 PP.1-6 2018
Estimation of the state of charge of the battery using EFK and Sliding mode Observer in Matlab- Arduino/LabView	Abarkan mouna , Byou Abdelilah, N.K.M'Sirdi, El Hossain Abarkan	4th International Conference on Optimization and Applications (ICOA)	04 Juin 2018
The behavior of a building using RES energy and A control strategy of DC microgrid	Abarkan mouna , Byou Abdelilah, N.K.M'Sirdi, El Hossain Abarkan	International Conference of Computer Science and Renewable Energies (ICCSRE)	22 aout 2019
Solar Charge Controller with a Data Acquisition System Based on Arduino	Byou Abdelilah, Abarkan mouna , .K.M'Sirdi, El Hossain Abarkan	Proceedings of the 1st International Conference on Electronic Engineering and Renewable Energy	Volume 512,Pp 412-420,02 aout 2018
Implementation of Maximum Power Point Tracking (MPPT) Solar Charge Controller using Arduino	Byou Abdelilah, Abarkan mouna , .K.M'Sirdi, El Hossain Abarkan	IOP Conference Series: Materials Science and Engineering	Volume 353,
Adsorption of Methylene Blue on industrial softwood waste “Cedar” and hardwood waste “Mahogany: comparative study”	M. El hajam, N. Idrissi Kandri , A. El khomsi, A. Harrach and A. Zerouale	Materials today: proceedings journal	13 (2019) 812-821
Physicochemical characterization of Softwood waste « Cedar » and hardwood waste « Mahogany »: comparative study	M. El hajam, N. Idrissi Kandri , A. El khomsi, A. Harrach and A. Zerouale	Materials today: proceedings journal	13 (2019) 803-811
Adsorptive removal of	M. El hajam, N. Idrissi	Scientific Study & Research -	2019, 20 (3), pp.

brilliant green dye from aqueous solutions using cedar and mahogany sawdusts	Kandri , A. Harrach and A. Zerouale	Chemistry & Chemical Engineering, Biotechnology, Food Industry journal	395 – 409
Batch adsorption of Brilliant Green dye on raw Beech sawdust: Equilibrium isotherms and kinetic studies	M. El hajam, N. Idrissi Kandri , A. Zerouale	Moroccan Journal of Chemistry	7 N°3 (2019) 431-435
Chemical-physical and mineralogical characterization of ceramic rawmaterials from Moroccan northern regions: Intriguing resources for industrial applications	Manal Monsif, Abdelaziz Zerouale, Noureddine Idrissi Kandri , Mirto Mozzon, Paolo Sgarbossa, Federico Zorzi, Fabio Tateo, Sergio Tamburini, Erica Franceschinis, Sara Carturan, Roberta Bertani	<i>Applied Clay Science</i>	Volume 182, 2019, 105274
Multifunctional Epoxy/Nanocomposites Based on Natural Moroccan Clays with High Antimicrobial Activity: Morphological, Thermal and Mechanical Properties	M. Monsif, A. Zerouale, N. Idrissi Kandri , R. Bertani, A. Bartolozzi, B. M. Bresolin, F. Zorzi, F. Tateo, M. Zappalorto, M. Quaresimin, and P. Sgarbossa	<i>Journal of Nanomaterials</i>	Volume 2019, Article ID 2810901, 12 pages
Life cycle assessment of paper production from treated wood	Asmae Ismaili M'hamdi, Noureddine Idrissi Kandri , Abdelaziz Zerouale, Dagnija Blumberga, Julija Gusca	Energy Procedia	128 (2017) 461–468
Adsorption study of the methylene blue on sawdust beech and red wood	A. Ismaili M'hamdi, N. Idrissi Kandri , A. Zerouale	J. Mater. Environ. Sci	2017 Volume 8, Issue 8, Page 2816-2831
The Implementation of Geopolymers Materials From Moroccan Clay, within the Framework of the Valorization of the Local Natural Resources	M. Monsif, S. Rossignol, F. Allali, A. Zerouale, N. Idrissi Kandri , E. Joussein, S. Tamburini, R. Bertani,	J. Mater. Environ. Sci	2017 Volume 8, Issue 8, Page 2704-2721
Comparative analyses of processed wood waste reuse possibilities after chemical delignification treatment	A. Ismaili M'hamdi, J. Gusca, D. Blumberga, A. Zerouale, N. Idrissi Kandri	Energy Procedia	Volume 113, May 2017, Pages 289-296
The influence of calcium content on the performance of metakaolin-based geomaterials applied in mortars restoration	F. Allali, E. Joussein, N. Idrissi Kandri , S. Rossignol	Materials and Design	103, 1- 9, 2016
The influence of calcium content on the mixture of sodium silicate with different additives: Na₂CO₃, NaOH and AlO(OH)	F. Allali, E. Joussein, N. Idrissi Kandri , S. Rossignol	Construction and Building Materials	121, 588–598, (2016)
Treatment and physicochemical characterization of red wood sawdust	Ismaili M'hamdi, A., Idrissi Kandri , N., Zerouale, A., Gusca, J. & Blumberga, D.	Energy Procedia	95 (2016) 546 – 550
Multifunctional epoxy composites with natural Moroccan clays.	M. Monsif, A. Zerouale, N. Idrissi Kandri , F. Allali, P. Sgarbossa, A. Bartolozzi, S. Tamburini, and R. Bertani	AIP Conference Proceedings AIP Conference Proceedings 1736 , 020129 (2016); https://doi.org/10.1063/1.4949704	1736 (2016) 020129
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Physicochemical characterization of an industrial waste: A case study of the pyrrhotite ash from south west of Morocco	M. Achik, A. Oulmekki, M. Ijjaali, H. Benmoussa, N. EL Mouddeh, S. EL Khatlabi, R. EL Khatlabi, F- Z. Ahjyaje , G. Gonzalez Álvaro, F. Guitian Rivera	Journal of Materials and Environmental Sciences JMES	Volume 8, Issue 8, Page 2738-2746, 2017

The effects of calcination and doping on structural and dielectric properties of $\text{CaCu}_{3-x}\text{Co}_x\text{Ti}_4\text{O}_{12}$ ceramic	Nasr Hadi, Abdi Farid, Tajdine Lamcharfi, Nor-Said Echatoui , Ahmed Harrach, Mohammed Zouhairi and Fatimazahra Ahjyaje	Mediterranean Journal of Chemistry	2019, 8(3), 234-244
Study of the dielectric, optical and microstructure properties of $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$-$\text{PbZr}_{0.48}\text{Ti}_{0.52}\text{O}_3$ ceramic system with different compositions »	Nasr Hadi, Abdi Farid, Taj-Edine Lamcharfi , Abdesselam Belaaraj, Said Kassou and Fatimazahra Ahjyaje	Mediterranean Journal of Chemistry	2019, 8(3), 245-254
Monoclinic Li_2TiO_3 Nano-particles via sol-gel method: Structure and impedance spectroscopy	Fatima Zahra Krimech, Salaheddine Sayouri, Tajdine Lamcharfi and Fatima Zahra Ahjyaje	Mediterranean Journal of Chemistry	2019, 8(2), 209-212
Effect of barium doping on electrical and electromechanical properties of $(1-x)(\text{Na}_0.5\text{Bi}_0.5)\text{TiO}_3$-$x\text{BaTiO}_3$	Mohammed Mesrar, Tajdine Lamcharfi, Nor-Said Echatoui, Farid Abdi, Fatima Zahra Ahjyaje and Mustapha Haddad	Mediterranean Journal of Chemistry	2019, 8(2), 198-208
Hydrothermal Synthesis of Oxide and Carbonate Powders of $(1-x)(\text{Na}_{0.5}\text{Bi}_{0.5})\text{TiO}_3$-$x\text{BaTiO}_3$ Ceramics	M. MESRAR, T. LAMCHARFI, N.S. ECHATOU, F. ABDI and F.Z. AHJYAJE	Asian Journal of Chemistry;	Vol. 31, No. 2 (2019), 309-316
Study of the dielectric, and micro-structure properties of $(1-x)\text{CaCu}_3\text{Ti}_4\text{O}_{12}$-$(x)\text{PbZr}_{0.65}\text{Ti}_{0.35}\text{O}_3$ composite	N. Hadi. T.E. Lamcharfi, F. Abdi, N. S. Echatoui, F. Z. Ahjyaje , A. Harrach and S. Chouikh	IOP Conf. Series: Earth and Environmental Science.	2018; 161.
Full On-Chip Low Dropout Voltage Regulator with an Enhanced Transient Response for Low Power Systems.	Hatim Ameziane, Kamal Zared , Hicham Akhamal, Hassan Qjidaa	International Journal of Electrical and Computer Engineering.	Vol. 9, No. 6, December 2019
“Implementation of a Capless-LDO in an Energy Harvesting Chain for Aircraft Applications”, Kénitra, Morocco, November 2018.	H. Ameziane, K. Zared Q. Hassan	International Symposium on Advanced Electrical and Communication Technologies	Kénitra, Morocco, November 2018.
“Implementation of Capless-LDO in an Energy Harvesting Interface for avionic applications”	H. Ameziane, K. Zared Q. Hassan	International Renewable and Sustainable Energy Conference	Marrakech, Morocco, November 2016
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Study of dielectric relaxation and diffuseness character of sol-gel derived $\text{Pb}_{1-x}\text{La}_x(\text{Fe}_{0.03}\text{Ti}_{0.97})\text{O}_3$ ceramics synthesized at lower temperature for modern nano-technological devices	Tajdine LAMCHARFI	Journal of Electroceramics	34, (2015) De 28 à 37
Impedance spectroscopy characterization of $\text{Pb}_{0.96}\text{La}_{0.04}\text{Fe}_{0.03}\text{Ti}_{0.97}\text{O}_3$ nano-ceramics for negative coefficient thermistor	Tajdine LAMCHARFI	J. Mater. Environ. Sci	(2016), 7 (3) 871-877

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A new synthesis technique and structural, microstructural and dielectric properties of BaTiO₃ nanopowder	Tajdine LAMCHARFI	Journal of Ceramic Processing Research.	(2016) Vol. 17, No. 12, pp. 1236~1242
dielectric Properties of hydro thermally processed of Pb_{1-x}LaxTi_{1-x}/4O₃ Ceramica	Tajdine LAMCHARFI Abdelhalim El Basset	Asian Journal of Chemistry	29, (2017) De 1056 A 1060
Synthesis, structural and dielectric properties of Li-doped BaTiO₃ nanopowders by sol-gel method	Tajdine LAMCHARFI	Journal of Ceramic Processing Research	18, (2017) De 536 A 542
Effect of strontium on the Structural and The piezoelectric properties of the sol gel processed barium titanate	Tajdine IAMCHARFI	Journal of Ceramic Processing Research.	19, (2018) De 154 A, 170
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Theoretical and Experimental Analysis of Electromagnetic Coupling into Microwave Circuit	<i>Ilham Zerrouk, Mohamed Amellal, Amine Amharech, Mohamed Ramdani, Hassane Kabbaj</i>	Int. J. Electr. Comput. Eng	vol. 9, no. 1, 2019, pp. 181–189
Analysis of coupled Vivaldi antenna elements for millimeter wave communication	Ismail Alaoui Abdallaoui, Laurent Leyssenne, Sidina Wane, Philippe Descamps, Hassan Kabbaj , Dominique Lesqénéchal, Than Vinh Dinh	international Journal of Scientific & Engineering Research IJSER	Volume 8, Issue 8, August 2017 Edition, P: 907-913
"Linear Algebra Based Generalization of the Kennelly's Theorem	Ali Krim ,Abderrazak Lakrim , Driss Tahri	Universal Journal of Electrical and Electronic Engineering	." 6.3 (2019) 101 - 107. DOI: 10.13189/ujeee.2019.060303
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<u>The spice dynamic behavioural electrothermal model of silicon carbide power MOSFET</u>	Abderrazak LAKRIM, Driss TAHRI	Journal of Theoretical and Applied Information Technology	Vol 93, N°1, pp: 185 -191. Novembre 2016.
<u>Analysis of Crosstalk on Non Uniform Transmission Lines by Means of the FDTD Algorithm in a Random Multisource Context</u>	L. Tani, N. ELouazzani	International Journal of Scientific & Engineering Research	Volume 7, Issue 9, September-2016
<u>Synthesis of a microwave CMOS active inductor using simple current mirror-based operational Transconductance Amplifier (OTA)</u>	M. Jarjar N. ELouazzani	International Journal of Scientific & Engineering Research	Volume 7, Issue 10, October-2016
<u>Measurement of the Bit Error Rate (BER) and Eye Diagram of Interconnections through FDTD Algorithm</u>	H. Sanhaji N. ELouazzani	International Journal of Scientific & Engineering Research	Volume 7, Issue 1, January-2016
<u>FDTD-Based Analysis of High Speed Data Transmission Along Interconnections Terminated with Noisy MOSFET</u>	H. Sanhaji N. ELouazzani	<i>Praise worthy prize</i> International Journal on Communications Antenna and Propagation (I.Re.C.A.P.),	Vol.7, N.2ISSN 2039 – 5086 - April 2017
<u>A Comprehensive Time-Domain Analysis of Data Transmission in High Speed Circuits</u>	H. Sanhaji N. ELouazzani	Journal of engineering science and technology review	Volume 11, issue 5 – pp. 17-25, Nov., 2018.
<u>Design of a CMOS-based microwave active channelized bandpass filter</u>	M. Jarjar N. ELouazzani	TELKOMNIKA	Vol.17, No.6, December 2019, pp.2851~2859.
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<u>FDTD-based statistical analysis of crosstalk on planar data buses</u>	L.Tani N. EL OUAZZANI	International journal of scientific engineering and technology-	Volume 4-Issue n°2-pp 61-71-2015
<u>Synthesis and structural characterizations of hydrothermally processed Pb_{1-x}LaxTi_{1-x}/4O₃ ceramic powders</u>	M. Zouhairi, O. El Ghadraoui, H. Bali, T. Lamcharfi, F. Abdi, L. Mrharrab	Phys. Chem. News	Vol 111, pp 42-48
<u>Influence of Zr on Structure and Dielectric Behavior of BaTiO₃ Ceramics</u>	Abdelhlim EL BASSET Farid ABDI Tajdine LAMCHARFI Mostafa ABERKANE Nor-said ECHATOU	Indian Journal of Science and Technology	Vol.8, pp56574 - 56579, 2015
<u>Effect of Doping with Cobalt or Copper on the Structure of Lead Titanate PT</u>	Abdelhlim EL BASSET Tajdine LAMCHARFI	Indian Journal of Science and Technology	Vol.8, pp 56348- 56352, 2015

	Farid ABDI		
Physico-Chemical Studies of a New Zr doped BaBeTiO₃ System	Abdelhlim EL BASSET Farid ABDI, Tajdine LAMCHARFI	Oriental Journal Of chemistry	Vol.32, pp1-6, 2016
Characterization Micro/nanostructures of Barium Strontium Titanate	Abdelhlim EL BASSET Farid ABDI, Tajdine LAMCHARFI, Nor-said ECHATOU	Oriental Journal Of chemistry	Vol.32, pp1521-1524, 2016
Synthesis, structural and dielectric properties of Li-doped BaTiO₃ nanopowders by sol-gel method	F. Krimech, S. Sayouri and Tajdine LAMCHARFI	Journal of ceramic Processing	Vol.18, pp536-542, 2017
A new synthesis technique and structural, microstructural and dielectric properties of BaTiO₃ nanopowder	Abdelaziz Salhi Salaheddine Sayouri TajEddine Lamcharfi	Journal of Ceramic Processing Research	vol.17, no.12, pp. 1236-1242, 2016,
Complex impedance, dielectric relaxation and electrical conductivity studies of Ba_{1-x}Sr_xTiO₃	Abdelhlim EL BASSET Farid ABDI, Tajdine LAMCHARFI	IOP Conference: material Science Engineering	Vol.186, .pp. 12018-12030, 2017
Modeling and simulation of a residential microgrid supplied with PV/batteries in connected/disconnected modes-Case of Morocco	Khadija Tazi, Mohammed Fouad Abboou, Farid ABDI	Journal of Renewable and Sustainable Energy	Vol.9, pp. 91-97, 2017
Effect of Sr Addition on Piezoelectric Properties and the Transition Temperature of BaTiO₃	Abdelhlim EL BASSET Farid ABDI, Tajdine LAMCHARFI	Glass Physics and Chemistry	Vol.43, pp. 2550310-2550315, 2017
structural, dielectric and electrical properties of (1-x)CaCu₃Ti₄O₁₂-xBaTiO₃ ceramics	Maabad Hadi Nasr Saleh Tajdine LAMCHARFI Farid ABDI, Najwa Gouitaa, Nor-Said ECHATOU	Asian Journal of Chemistry	Vol.29, pp. 1811-1816, 2017
Dielectric anomalies of BaTi_{1-x}Fe_xO₃ ceramics x=0.0 to 0.6 of Fe doping concentration	Najwa Gouitaa, Tajdine LAMCHARFI, Bouayad Mfadal, Farid ABDI, Nor Said Echatoui	Asian Journal of Chemistry	Vol.29, pp. 2143-2148, 2017
Investigation or Morphotropic Phase Boundary by Rietveld Refinement and Raman Spectroscopy for (1-x)(Na_{0.5}Bi_{0.5}TiO₃-xBaTiO₃) Ceramics	Mohammed Mesrar Tajdine LAMCHARFI Nor-said ECHATOU Farid ABDI	Asian Journal of Chemistry	Vol.30, pp. 1012-1018 2018
Efficiency of a small wind turbine using BEM and CFD	Yassine KHALIL, Lhoussame TENGHIRI, Farid ABDI Anas Bentamy,	IOP conference series : Earth and Environmental science	DOI: 10.1088/1757-1315/161/1/012028 ; 2018
Impedance, modulus and conductivity studies of Fe³⁺-doped BaTiO₃ ceramics prepared by solid state method	Najwa Gouitaa, Tajdine LAMCHARFI, Mfadal Bouayad, Farid ABDI, Hadi Nasr Saleh Maabad	Journal of Materials Science: Materials in electronic	DOI: 10.1007/s10854-018-8666-3 2018
Load Analysis and Consumption Profiling: An overview	Khadija TAZI Fouad Mohammed ABBOU, Farid ABDI	Lecture notes in electrical engineering	https://doi.org/10.1007/978-981-13-1405-6_80
Optimum design of a small wind turbine blade for maximum power production	Lhoussame TENGHIRI, Yassine, Farid ABDI , Anas Bentamy KHALIL	IOP conference series : Earth and Environmental science	doi :10.1088/1757-1315/161/1/012008 2018
Non linear effects in WDM networks	KENZA GAIZI Fouad Mohammed ABBOU	International Journal of Engineering & Technology	Vol.7, pp. 176-182 2018

	Farid ABDI		
STUDY OF THE DIELECTRIC AND Microstructure PROPERTIES OF (1-x)CaCu₃TiO₁₂-xPbZr_{0.65}Ti_{0.35}O₃ composite	Hadi Nasr SalehMaabad Tajdine LAMCHARFI Farid ABDI Nor-Said ECHATOUI, FatimZahraAhjyej	IOP conference series : Earth and Environmental science	doi: 10.1088/1755-1315/161/1/012020 2018
The dielectric and electrical properties of Ethylcarbazole family based copolymer	HussamBouaamlat , Nasr Hadi Hayat Sadki, Mohammed NaciriBennani , Farid Abdi , TajeddineLamcharfi , Mohammed Bouachrine and Mustapha Abarkan	Mediterranean Journal of Chemistry	Vol.8 N° 3, pp. 191-197 2019
Hydrothermal Synthesis of Oxide and Carbonate Powders of (1-x){Na_{0.5}Bi_{0.5}/TiO₃-xBaTiO₃Ceramics	Mohammed Mesrar, TajdineLAMCHARFI, Nor-Said ECHATOUI, Farid ABDI, FatimZahraAhjyej	Asian Journal of Chemistry	Vol.30,pp. 1012-1018 2018

-Thèses soutenues durant les 5 dernières années:

Nom & prénom du doctorant	Titre de la thèse	Date de soutenance	Directeur(s) de thèse
Younes BALBOUL	Optimisation de l'interface radio du LTE : Gestion des interférences intercellulaires en lien descendant	02/04/2016	Najiba EL AMRANI EL IDRISSE
Kaoutar ALLABOUCHE	Etude, conception et caractérisation de nouvelles topologies d'antennes à résonateurs diélectriques : application aux nouveaux systèmes de communications sans fils.	14/12/2017	Najiba EL AMRANI EL IDRISSE
Adil KORCHI	Modélisation et mise en œuvre d'un processus de Gestion de profils d'apprenants à base d'ontologie	09 Mai 2018	Najiba EL AMRANI EL IDRISSE
Ikram TABAKH	Conception et réalisation d'une antenne patch pour la technologie RFID	23 Novembre 2019	Najiba EL AMRANI EL IDRISSE
Hajar AbdelAli	Amélioration de la qualité de transmission des systèmes de communication sans fils dans un contexte de réduction de la consommation électrique	23 mars 2019	Hicham Ghennioui
Omar Cherrak	Séparation aveugle de mélanges linéaires de sources : application à la surveillance maritime	19 mars 2019	El Houssein Abarkan/Hicham Ghennioui
Amine Brahmi	Contribution à la séparation de sources cyclo-stationnaires : application aux signaux de télécommunications, mécaniques et biomécaniques	30 novembre 2017	Mhamed Lahbabi/Hicham Ghennioui
Lamiaie Hachad	Traitement d'antennes pour les télécommunications : Séparation de sources dans un système MIMO	28 juin 2018	M. ZOUAK
Yasmina El Morabit	Intelligence artificielle appliquée aux réseaux Radio Cognitifs	14 juin 2019	Fatiha Mrabti
ALLALI Fouzia	Archéomatériaux Marocains :	17/07/2016	Noureddine IDRISSE

	Caractérisation et Contribution à la Sauvegarde du Patrimoine		KANDRI
ISMAILI M'HAMDI Asmae	Contribution à l'étude des déchets du bois Rouge et du Bois de Hêtre : Caractérisation physicochimique, Etude d'adsorption et Analyse de Cycle de Vie	06/04/2018	Noureddine IDRISSE KANDRI
MONSIF Manal	Contribution à la valorisation de quelques types d'argiles Marocaines : Caractérisation, Elaboration des Nanocomposites, des Filtres Minéraux et des Géomatériaux	17/07/2018	Noureddine IDRISSE KANDRI
Ilham Zerrouk	Compatibilité Electromagnétique des Circuits Electroniques Microondes : Approche Théorique et Validation par des Mesures Expérimentales	20 juillet 2019	Pr Kabbaj Hassane
ISMAIL ALAOUI ABDALLAOUI	Contribution à l'analyse CEM globale de structures et de circuits- Application aux antennes Vivaldi en présence d'un système non linéaire pour la récupération d'énergie : une approche FDTD	07 mai 2018	Pr Kabbaj Hassane
Aberazzaklakrim	« Etude comparative des nouveaux composants de puissance en carbure de silicium(SiC) et leur modélisation sous Spice »	01/04/2016	Pr Driss tahri
Loubna TANI	Analyse Temporelle et Etude Statistique du Problème de la Diaphonie Dans les Circuits Planaires Rapides	Octobre 2017	Pr. Nabih EL OUAZZANI
Gaspard NGEDAKUMANA	Développement d'un outil de conception assistée par ordinateur (CAO) des circuits électroniques basé sur les méthodes des différences fines dans le domaine temporel (FDTD) et Lguerre-FDTD	Novembre 2014	Pr. Nabih EL OUAZZANI
Houda SANHAJI	Contribution à l'étude de l'intégrité des signaux dans les circuits rapides de transmission et de détection à l'aide de l'approche numérique FDTD et des outils de CAO	20/09 2019	Pr. Nabih EL OUAZZANI
Abdelhlim EL BASSET	Synthèse et caractérisation de matériaux de titanate de Baryum et dopés au strontium et au Zirconium	24/05/2014	F.ABDI/ T.LAMCHARFI
kamalZared	Conception optimale de régulateurs linéaires à faible chute de tension "LDO" pour les systèmes Full On Chip en téléphonie mobile	28/02/2014	Mohcine ZOUAK
AichaAlamiHassani	Contribution à l'étude des performances, modélisation, conception VLSI et implémentations sur FPGA d'un système de communications DS-CDMA	28/06/2014	Mohcine ZOUAK

Mouna ABERKANE	Modélisation et analyse du comportement d'un bâtiment équipé d'un multi sources.	19/12/2014	Hassane EL MARKHI
Anouar RAHMOUNI	Technique de Compensation Passive de la Dérive en Température de Composants Optiques	13/06/2015	Farid ABDI
Youssef ZAITAR	Conception d'un modèle de gouvernance des Projets ERP	17/10/2015	Mohamed OUZARF
Hassane EL Markhi	Localisation des défauts dans les réseaux électriques HTA et amélioration de l'intégration des éoliennes à base de la MADA	21/11/2015	El Hossain ABARKAN
Ouafae EL GHADRAOUI	Elaboration et caractérisation physicochimique des matériaux céramiques de type pérovskite: BT:Mg et LN:Y	06/07/2017	Farid ABDI / Tajdine LAMCHARFI
KENZA GAIZI	Study, Conception and Optimization of a Complete Security framework for WaveLength Division Multiplexing Optical Networks (CSF-WDM)	27/12/2019	Farid ABDI
Yassine KHALIL	Aerodynamic Optimization of a Realistic Small Wind Turbine Blade	04/01/2020	Farid ABDI
Lhoussaine TENGHIRI	Study of Integrated Design and Manufacture of a Small Wind Turbine, in the Moroccan Context, and Within Certification Type IEC-61400 Series	04/01/2020	Farid ABDI


Collaborations:

- l'Université Rome 3, l'Université Polytechnique de Catalogne-Barcelone,
- l'Université de Pise, l'Université technique Gediminas de Vilnius,
- l'Institut Supérieur de Gestion et de la Planification-Algérie,
- l'Université de Jordanie,
- l'Université Helwan-Egypte et
- l'Académie de la recherche scientifique et la technologie du Caire-Egypte.
- ROMA TRE UNIVERSITY, "UNIROMA3" - Italie,
- Vilnius Gediminas Technical University, "VGTU" - Lituanie,
- Utrecht University, "UU", Pays Bas,
- Distretto Agroalimentare Regionale SCRL "DARE" - Italie,
- Istanbul Teknokent A.S., "TK" - Turquie,
- Academy of Scientific Research and Technology. "ASRT" - Egypt.
- Ecole Telecom Sud Paris, "TSP", France .
- Ecole Supérieure des Communications de Tunis, " Sup'Com", Tunisie.
- Université Polytechnique de Cartagena, Espagne.
- Université de Coimbra (UC) Portugal
- LMOPS METZ -France Université de Lorraine
- Laboratoire Analyse des Signaux et des Processus Industriels (LASPI), Université Jean Monnet Saint Etienne France .
- ESIGELEC/IRSEEM et Normandie Université / Université de Rouen France
- Laboratoire des Sciences de l'Information et des Systèmes (LSIS), Université de Marseille France.
- National Institute of Standards and Technology, Semiconductor and Dimensional Metrology Division, Gaithersburg, USA.
- Al Akhawayn University, Ifrane ..

- Mascir
- IRESEN


Prix et distinction :

Projets de recherche financés durant les 5 dernières années :

 En tant que coordinateur

Cadre du projet	Intitulé du projet	Période (de --- à ----)	Responsable du projet	Budget alloué
MSCA-RISE Horizon 2020	ClusDevMED: Cluster Development Med	01/06/2015 à 31/05/2019	Pr Najiba EL AMRANI EL IDRISSE	8670 000,00
AUF	FETUMA (Formation Entrepreneurial TUniso Marocaine)	15/01/2018 à 31/12/2020	Pr Najiba EL AMRANI EL IDRISSE	870 000,0
Erasmus +,	"Proyecto 2017-1-ES01-KA107-037387", Erasmus +, Key Action1 – Mobility for learners and staff – Higher Education Student and StaffMobility	01/03/2017 à 28/02/2019	Pr Najiba EL AMRANI EL IDRISSE	850 000,00
Erasmus +,	"ICM Project: 2018-1-PT01- KA107-046827" Erasmus +, Key Action 1 – Mobility for learners and staff – Higher Education Student and Staff Mobiliy,	01/03/2019 à 28/02/2021	Pr Najiba EL AMRANI EL IDRISSE	576 500,00
PRIMA	PHEMAC (Participatory Hub for Effective Mapping, Acceleration and Capitalization of EU-MPC NEXUS best Practices) PRIMA	01/11/2019 à 31/10/2022	Pr Najiba EL AMRANI EL IDRISSE	11 957 000,00
PRIMA	N4L (Nexus for Life) PRIMA :The Partnership for Research and Innovation in the Mediterranean Area : RIA (Research and Innovation Actions	01/12/2019 à 30/11/202	Pr Najiba EL AMRANI EL IDRISSE	17 392 000,00
IRESEN	Projet de recherche en énergie solaire	06/03/2017 05/03/2019	Pr H.GHENNIOUI	252000,00

	thermique			
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 **En tant que membre**

Cadre du projet	Intitulé du projet	Période (de --- à ----)	Responsable du projet	Etablissement (laboratoire) coordonnateur
Region Fès-Meknès	Création d'un centre de formation régional en énergies renouvelables pour les installations domestiques	2016 à 2018	Pr Anas BENTAMYF/ F.ABDI	AL AKHAWAYN University