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Présentation du laboratoire :

Le Laboratoire des Techniques Industrielles (LTI) est créé en janvier 2011 pour répondre à un besoin académique d'encadrement et une demande accrue du milieu socio-économique de développer la recherche scientifique en génie industriel et la commande des systèmes industriels.

Le LTI se donne comme **défi scientifique** de “**maîtriser la conception, la commande et le management des systèmes industriels**” :

- Maîtriser c'est modéliser, simuler, optimiser, dimensionner et spécifier
- La conception est traitée en termes de faisabilité, utilité, maintenabilité, opérabilité, qualité et disponibilité
- Le management est vu sous ses aspects performance, création de valeurs, risques, maintenance, sûreté de fonctionnement, métriques, qualité et logistique
- Les systèmes industriels abordés sont indifféremment des systèmes industriels techniques de production, organisationnels, opérationnels, informationnels, décisionnels, tactiques et stratégiques

Thématiques de recherche :

- **Thème 1 : Développement d'outils d'aide à la décision en techniques de génie industriel**
Anas CHAFI, Mohamed RAMADANY, Brahim HERROU, Abdelali ENNADI, Ikram TAJRI, Hassane BINE EL OUIDANE
- **Thème 2 : Développement et application de méthodes et démarches avancées pour l'intégration des concepts Qualité, Sécurité et Environnement (QSE)**
Ikram Tajri, Mohammed EL HAMMOUMI, Abdelali ENNADI, Anas CHAFI, Mohamed RAMADANY, Alami Kammouri Salaheddine
- **Thème 3 : La contribution de la maintenance à l'amélioration de la sécurité dans l'entreprise**
Mohammed EL HAMMOUMI, Brahim HERROU, Said HAOUACHE, Mohamed RAMADANY, Hassane BINE EL OUIDANE
- **Thème 4: Modélisation du problème de l'écoulement et du transport dans un milieu poreux saturé**
Salaheddine KAMMOURI ALAMI, Anas CHAFI, Mohammed EL HAMMOUMI, Abderrahim CHAMAT
- **Thème 5 : Mise en oeuvre de l'ontologie de l'APC dans un environnement informatique d'apprentissage Humain (EIAH)**
Salaheddine KAMMOURI ALAMI, Anas CHAFI, Fahd KAGHAT

- **Thème 6 : Modélisation, analyse, synthèse et diagnostic des SED (Systèmes à Événements Discrets)**
Fouad BELMAJDOUB, Mohammed RJEB, Mohammed CHERKANI HASSANI
- **Thème 7: Optimisation de la maintenance par les outils de l'IA**
Mohamed RAMADANY, Mohammed EL HAMMOUMI, Brahim HERROU, Said HAOUACHE, Abderrahim CHAMAT, Hassane BINE EL OUIDANE
- **Thème 8 : Optimisation des techniques de mesure et capteurs intelligents**
Said HAOUACHE, Mohamed RAMADANY, Abderrahim CHAMAT, Mohammed CHERKANI HASSANI
- **Thème 9 : Sciences des matériaux : Matériaux en couches minces et semi-conducteurs**
L'habib HAMED, Mohammed RJEB, Driss SQALLI HOUSSAINI, Taoufiq ACHIBAT, Nabil HACHEM, Saâdia Ihmane
- **Thème 10 : Optimisation des réseaux logistiques au sein des entreprises**
Abdelali ENNADI, Anas CHAFI, Mohammed EL HAMMOUMI, Ikram Tajri

Membres permanents du laboratoire :



Nom & prénom	Thématique(s) de recherche	Adresse mail
Taoufiq ACHIBAT	Sciences des matériaux	taoufiq.achibat@usmba.ac.ma
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Ingénieurs associés au laboratoire :

Nom & prénom	Thématique(s) de recherche	Adresse mail
Ikram Tajri	Génie Industriel	tajriikram@gmail.com
Hassan Bine El Ouidane	Electromécanique	hassan.bine.el.ouidane@gmail.com

Production Scientifique des 5 dernières années :

Publications des 5 dernières années:

Titre	Journal	Auteurs	Date Publication	Vol	N°	Pages
The development of wind potential in Morocco	International Journal of Advanced Information Science and Technology	Souad NABDI Brahim HERROU	01/12/2015	44	44	De 125 A 129
Application of Self-Assessment Tool for the Measurement of the Maturity Level of a Moroccan Health Institution by Report to the Quality Approach	International Journal of Engineering and Technology	Sabrina Guetibi Mohammed EL HAMMOUMI	01/10/2015	15	5	De 1 A 11
Preventive Maintenance by Vibratory Analysis: Case Study	International Journal of Engineering Research	Amal Boukili Mohammed EL HAMMOUMI	01/08/2015	4	8	De 450 A 455
The impact of the concepts of lean manufacturing on the strategies of the supply chain	International Journal of Engineering and Technology	Jaouad KAZMANE Anas CHAFI Abdelali ENNADI	05/01/2015	4	1	De 35 A 47
Hospital information system : comparison of three devices of modeling directed process	Journal of Industrial and Intelligent Information	Sabrina Guetibi Mohammed EL HAMMOUMI Anas CHAFI	01/12/2015	3	4	De 286 A 292
Integration of a Risk Analysis method with Holonic approach in an Isoarchic context	International Journal of Engineering and Technology	Mostapha El jai Brahim HERROU	01/12/2015	5	6	De 5196 A 5206
Experimental Study of longitudinal and circumferential external defect in pressured cylindrical shells	Word Journal of Mechanics	Abderrahim CHAMAT	01/06/2015	5	0	De 95 A 105
Integration of reliability in the design process, a case study of a submersible pump	International Journal of Scientific & Engineering Research	Ayoub Alami Oumaima Naciri Brahim HERROU Mohammed EL HAMMOUMI	02/02/2015	5	2	De 219 A 226

Design Of An Evaluation System And Performance Management Of Supply Service: Case Study	International Journal of Scientific & Engineering Research	Oumaima Naciri Ayoub Alami Brahim HERROU Mohammed EL HAMMOUMI	02/01/2015	5	1	De 1139 A 1146
Control by Supervision of Discrete Event System	Journal of Computational Information Systems	Mohamed Fri Fouad BELMAJDOUB	02/01/2014	10	18	De 7877 A 7891
A New Tool of Surveillance for Discrete Event Systems	INTERNATIONAL JOURNAL OF ENGINEERING SCIENCES & RESEARCH TECHNOLOGY	Mohamed Fri Fouad BELMAJDOUB	03/03/2014	3	3	De 1221 A 1227
Consideration of security in the design process	International Journal of Scientific & Engineering Research	Ayoub Alami Oumaima Naciri Brahim HERROU Mohammed EL HAMMOUMI	01/07/2014	5	7	De 1071 A 1082
An approach based on balanced scorecard for the implementation of overall performance indicators of a supply chain	International Journal of Scientific & Engineering Research	Oumaima Naciri Ayoub Alami Brahim HERROU Mohammed EL HAMMOUMI	01/07/2014	5	7	De 800 A 808
Investigation of the importance of performance indicators in the control of the supply chain of the Moroccan industrial sector	International Journal of Scientific and Engineering Research	Oumaima Naciri Ayoub Alami Brahim HERROU Mohammed EL HAMMOUMI	04/05/2015	6	5	De 171 A 177
Consideration of indicators maintainability design	International Journal of Scientific & Engineering Research	Ayoub Alami Oumaima Naciri Brahim HERROU Mohammed EL HAMMOUMI	02/02/2015	6	2	De 358 A 362
Correction of the Production Master Plan According to Preventive Maintenance Constraints and Equipments Degradation State	Scientific research	Mostapha El jai Brahim HERROU	02/05/2014	6	0	De 274 A 291

Intelligent process optimization into Holonic Manufacturing Systems using TAGUCHI approach and UML Modeling Language	International Journal of Scientific & Engineering Research	Mostapha El jai Taoufik Abidine Brahim HERROU Mohammed EL HAMMOUMI	04/05/2015	6	5	De 1099 A 1107
Construction approach of a performance indicator system for controlling production process applied to a packing station for fruit and vegetables for export Line Spacing	International Research Journal of Engineering and Technology	Oumaima Naciri Ayoub Alami Brahim HERROU Mohammed EL HAMMOUMI	01/07/2015	2	4	De 898 A 907
integration of the environmental dimension in maintenance decision support tool fmea: case of a moroccan foundry	Global Journal of Engineering Science and Research Management	Halima Tajri Mohammed EL HAMMOUMI Brahim HERROU	01/10/2015	2	10	De 68 A 84
THE IMPACT OF THE IMPLEMENTATION OF THE CONCEPTS OF LEAN MANUFACTURING ON THE COMPETING PRIORITIES IN INDUSTRY	Global Journal of Engineering Science and Research Management	Jaouad KAZMANE Anas CHAFI Abdelali ENNADI	01/10/2015	2	10	De 15 A 28
Analysis and diagnosis of an industrial machine by infrared thermography	International Journal of Advanced Information Science and Technology	Amal Boukili, Mohammed El hammoumi, Said haouache	04/01/2016	45	45	De 106 A 118
Improved maintenance by the FMECA: Case study	International Journal of Advanced Information Science and Technology	Souad NABDI, Brahim Herrou	04/01/2016	45	45	De 47 A 54
Trend of scientific research: Analysis of Mega-data of discrete event systems described by Petri nets and their extensions	International Journal of Engineering Research	Oumaima BENATIA, Mohamed Fri, Mohammed Msaaf, Hajar Alaoui Ismaili, Fouad Belmajdoub	04/01/2016	5	1	De 16 A 22
Trend of scientific research: Analysis of Mega-data of discrete event systems described by mathematical tools	International Journal of Advanced Information Science and Technology	Hajar ALAOUI ISMAILI, Mohamed Fri, Oumaima BENATIA, Mohammed Msaaf, Fouad Belmajdoub	01/02/2016	5	2	De 95 A 102
Information Systems Between Companies and Hospital Institutions: Differences, Common Points and Analyzes SWOT, within	International Journal of Engineering and Technology	Sabrina Guetibi, mohammed El hammoumi	01/04/2016	16	2	De 41 A 51

the Framework of a Process Approach						
Comparative study of Pareto, Knapsack and Greedy Algorithm in the field of industrial Maintenance	International Journal of Scientific & Engineering Research	Amal Boukili, Mohamed Fri, Mohammed El hammoumi, Fouad Belmajdoub	04/04/2016	7	4	De 1165 A 1170
Elaboration of a new method in the science of decision International	International Journal of Scientific & Engineering Research	Amal Boukili, Mohamed Fri, Mohammed El hammoumi, Fouad Belmajdoub	04/04/2016	7	4	De 1334 A 1338
Trend of scientific research: Analysis of Mega data base of discrete event systems described by formal language, automata and LADDER	International Journal of Advanced Information Science and Technology	Mohammed MSAAF, Mohamed Fri, Oumaima BENATIA, Hajar ALAOUI ISMAILI,, Fouad Belmajdoub	04/04/2016	5	4	De 1 A 8
Developing a new method "PKPGA" by using a combination of the ABC method Knapsack Problem and Greedy algorithm as a tool for decision support	International Journal of Advanced Engineering, Management and Science	Mohamed Fri, Amal Boukili, Fouad Belmajdoub, Mohammed El hammoumi,	30/06/2016	2	7	De 1153 A 1159
Sustainable control of industrial production systems: A hybrid model "lean /project management	International Research Journal of Engineering and Technology	Salima HAMMADI, Brahim Herrou	07/11/2016	3	11	De 685 A 689
Analysis and diagnosis of different defects by vibratory analysis on test bench	Journal of Engineering and Applied Sciences	Amal Boukili, Mohammed EL HAMMOUMI, B. EL KHEL, Said HAOUACHE	04/01/2016	11	9	De 2094 A 2104
Approach to assessment of maintainability in design	International Journal of Performability Engineering	Souad NABDI, Brahim HERROU	07/11/2016	12	6	De 551 A 560
The practical relationships between lean construction tools and sustainable development: A literature review	<i>Journal of Engineering Science and Technology Review</i>	Bajjou, M.S., Chafi, A., Ennadi, A., El Hammoumi, M.	2017	10	4	De 170 A 177
Statistical Study on the use of the measurement techniques in predictive maintenance taking Moroccan companies as an example	<i>International Journal of Industrial and Systems Engineering (IJISE)</i>	Amal Boukili, Mohammed El Hammoumi, Said Haouache	2017			De 1748 A 5045
Improvement axes identification for the components and the information flow of a hospital information system: A case Study	International Journal of Engineering and Technology,	Sabrina Guetibi, Mohammed El Hammoumi	2017			De 2319 A 8613

State of the Art of SCM and TRM in Morocco	International Journal of Latest Engineering Research and Technology	Wiame Ech-Chelfi, Mohammed El Hammoumi	2017	3	3	De 2454 A 5031
The organizational modeling of a supply chain management	the IJIE International Journal of Innovation in Engineering and Technology	Wiame Ech-Chelfi, Mohammed El Hammoumi	2017	8	4	De 2319 A 1058
A Conceptual Model Of Lean Construction: A Theoretical Framework	Malaysian Construction Research Journal	MOHAMED SAAD BAJJOU Anas CHAFI	02/01/2018	26	0	De 67 A 86
Lean construction implementation in the Moroccan construction industry: Awareness, benefits and barriers	Journal of Engineering, Design and Technology	MOHAMED SAAD BAJJOU Anas CHAFI	02/01/2018	16	0	De 533 A 556
Empirical study of schedule delay in Moroccan construction projects	International Journal of Construction Management	MOHAMED SAAD BAJJOU Anas CHAFI	02/01/2018	1	0	De 1 A 18
Exploring Causes of Wastes in the Moroccan Construction Industry	Proceedings of the 3rd International Conference on Smart City Applications-Springer	MOHAMED SAAD BAJJOU Anas CHAFI	02/01/2018	1	0	De 57 A 64
Development of a Conceptual Framework of Lean Construction Principles: An Input-Output Model	Journal of Advanced Manufacturing Systems	MOHAMED SAAD BAJJOU Anas CHAFI	02/07/2019	18	0	De 1 A 34
Identifying and managing critical waste factors for lean construction projects	Engineering Management Journal	MOHAMED SAAD BAJJOU Anas CHAFI	05/09/2019	1	0	De 0 A 0
Energetic Equipment Maintenance Logistics: Towards a Lean Approach	Journal of Engineering and Applied Sciences	SALIMA HAMMADI Brahim HERROU	02/07/2018	13	0	De 4188 A 4192

Integrated Production and Logistics Planning	International Journal of Online Engineering	YASSINE EL KHAYYAM Brahim HERROU	02/01/2018	14	12	De 84 A 96
Contribution to Integrating Maintainability into Preliminary Design Based on TRIZ	Engineering Journal	SOUAD NABDI Brahim HERROU	30/09/2018	2	5	De 213 A 226
Development of the java-based Dijkstra algorithm for optimal path detection	Journal of Engineering and Applied Sciences	WIAME ECH-CHELFI Mohammed EL HAMMOUMI	01/07/2019	14	0	De 6620 A 6624
Phase Diagrams of the Mixed Spin-1 and Spin-3/2 Blume-Emery-Griffiths Model with Repulsive Biquadratic Coupling	Journal of Advanced Physics (Indexé WOS)	NABIL HACHEM	04/06/2018	7	2	De 261 A 271
Phase Diagrams of Ising Mixed Integer Spins with Random Anisotropy	Journal of Advanced Physics (Indexé WOS)	NABIL HACHEM	04/06/2018	7	2	De 272 A 280
Surface Critical Behavior of the Mixed Spins $S=1/2$ and $S=3/2$ Model	Journal of Advanced Physics (Indexé WOS)	NABIL HACHEM	04/06/2018	7	2	De 281 A 288
Magnetic Properties of a Mixed Spin-3/2 and Spin-1/2 Ising Nanowire with Nearest and Next-Nearest Neighbour Interactions	Journal of Superconductivity and Novel Magnetism	NABIL HACHEM	02/07/2018	31	7	De 2165 A 2172
Mixed Spin-1/2 and Spin-5/2 Model by Renormalization Group Theory: Recursion Equations and Thermodynamic Study	International Journal of Theoretical Physics	NABIL HACHEM	01/08/2018	57	8	De 2330 A 2342

Phase diagrams and hysteresis behaviors of a ferrimagnetic mixed spins $S=1/2$ and $S=1$ Ising nanowire	International Journal of Modern Physics B	NABIL HACHEM	01/10/2018	32	26	De 0 A 0
Random crystal-field effects in a mixed spin-1/2 and spin-2 ferrimagnetic Ising system	Chinese Journal of Physics	NABIL HACHEM	01/10/2018	56	5	De 1949 A 1963
Finite Temperature Phase Diagrams of the Mixed Spin-1 and Spin-2 Blume-Capel Model by Renormalization Group Approach	Journal of Statistical Physics	NABIL HACHEM	02/01/2019	174	1	De 40 A 55
Phase diagrams of the ferrimagnetic mixed spin-1/2 and spin-5/2 Ising model under a longitudinal magnetic field	Physica Scripta (Indexé SCOPUS)	NABIL HACHEM	02/01/2019	94	2	De 0 A 0
Preventive maintenance optimisation: towards a new model	Proceedings of the international Conference on Industrial Engineering and Operations Management IEOM (Indexé SCOPUS)	SALIMA HAMMADI Brahim HERROU Mohammed EL HAMMOUMI	26/07/2018	1	1	De 1887 A 1892
How to manage and drive change in a small and medium manufacturing production company ?	Proceeding of the International Conference on Industrial Engineering and Operations Management IEOM (Indexé SCOPUS)	SALMA ARABI Anas CHAFI Mohammed EL HAMMOUMI	26/07/2018	1	413	De 0 A 0
Methodology for optimizing the use of th NDT in predictive maintenance	Proceeding of the International Conference on Industrial Engineering and Operations Management IEOM (Indexé SCOPUS)	Amal BOUKILI Mohammed EL HAMMOUMI Said HAOUACHE	26/07/2018	1	363	De 1893 A 1899
Lean maintenance logistics management: the key to green and sustainable performance.	4ème conférence internationale IEEE Gestion Opérationnelle de la logistique GOL'18 (Indexé SCOPUS)	SALIMA HAMMADI Brahim HERROU	10/04/2018	1	0	De 0 A 0

Barriers of lean construction implementation in the Moroccan construction industry	AIP Conference Proceedings (Indexé SCOPUS)	MOHAMED SAAD BAJJOU Anas CHAFI	02/01/2018	1952	0	De 0 A 0
Towards implementing lean construction in the Moroccan construction industry: Survey study	IEEE Conference On Optimization and Applications (ICOA) (Indexé SCOPUS)	MOHAMED SAAD BAJJOU Anas CHAFI	02/01/2018	1	0	De 1 A 5
Assessing the Critical Sources of Wastes in the Moroccan Construction Industry: An Empirical Study	Proceedings of the 3rd International Conference on Smart City Applications ACM (Indexé SCOPUS)	MOHAMED SAAD BAJJOU Anas CHAFI	02/01/2018	1	0	De 0 A 0
The potential effectiveness of lean construction principles in reducing construction process waste: an input-output model	Journal of Mechanical Engineering and Sciences (Indexé SCOPUS)	MOHAMED SAAD BAJJOU Anas CHAFI	01/07/2018	12	0	De 4141 A 4160
Implementation of a remote monitoring system for Condition maintenance using WSN	Journal of Theoretical and Applied Information Technology	MOHAMED RAMADANY	02/07/2018	196	15	De 4740 A 4752
Running Smart Monitoring Maintenance Application Using Cooja Simulator	International Journal of Engineering Research in Africa	MOHAMED RAMADANY	17/04/2019	42	0	De 149 A 159
CCAHP: A new method for group decision making application on supply chain dashboard design	International Journal of mechanical and Production Engineering research and Development (Indexé SCOPUS)	YASSINE EL KHAYYAM Brahim HERROU	30/04/2018	8	2	De 1303 A 1318
Design and development of an industrial solver for integrated	International Journal of Advanced Computer Science and Applications (Indexé SCOPUS)	YASSINE EL KHAYYAM Brahim HERROU	02/01/2019	10	5	De 252 A 262

planning of production and logistics						
Analysis and modeling of the relationship "maintenance-environment" quantitative experiments on Moroccan SMEs samples	Journal of Engineering and Applied Sciences	HALIMA TAJRI Mohammed EL HAMMOUMI Brahim HERROU	03/07/2018	13	12	De 4324 A 4329
Survey on the relation between road freight transport, SCM and sustainable development	Yugoslav Journal of Operations Research	WIAME ECH-CHELFI Mohammed EL HAMMOUMI	05/03/2019	29	2	De 151 A 176
The impact level of the environmental approach on moroccan industries: Case study	International Journal of Engineering Research and Technology (Indexé SCOPUS)	WIAME ECH-CHELFI Mohammed EL HAMMOUMI	02/01/2019	12	2	De 172 A 179
How can Top management succeed in a lean manufacturing implementation in the small and medium sized enterprises?	International Colloquium on Logistics and Supply Chain Management, LOGISTIQUA 2018 (Indexé SCOPUS)	SALMA ARABI Anas CHAFI Mohammed EL HAMMOUMI	26/04/2018	1	0	De 176 A 181
A Generic approach of modelling perturbation of Mechanical Systems: Concept with Bond Graph	IEEE International Conference on Technology Management, Operations and Decisions, ICTMOD 2018 (Indexé SCOPUS)	YASSINE BAQQAL Mohammed EL HAMMOUMI	02/07/2018	1	0	De 219 A 223
State of the art in maintenance modelling and simulation approaches for maintenance systems	IEEE International Conference on Technology Management, Operations and Decisions, ICTMOD 2018 (Indexé SCOPUS)	YASSINE BAQQAL Mohammed EL HAMMOUMI	02/07/2018	1	1	De 214 A 218
Process approach for information systems in health care: A systematic review and PRISMA method	International Conference on Software Engineering and Information Management, ICSIM 2018 (Indexé SCOPUS)	SABRINA GUETIBI Mohammed EL HAMMOUMI	04/01/2018	1	1	De 108 A 112
Analysis and prediction of supply and demand risks - case of the Moroccan company	International Journal of Supply Chain Management (Indexé SCOPUS)	MARIAM EL HIRI Abdelali ENNADI Anas CHAFI	02/07/2019	8	3	De 760 A 767

Adaptation of the Value Stream Mapping (VSM) for the Moroccan Artisanal Enterprise	Colloquium in Information Science and Technology, CIST (Indexé SCOPUS)	FATINE CHOUIRAF Anas CHAFI	28/12/2018	1	1	De 124 A 129
The professionals' perception on the main causes of wastes in the Moroccan construction industry	ACM International Conference Proceeding Series 2018 (Indexé SCOPUS)	MOHAMED SAAD BAJJOU Anas CHAFI	10/10/2018	1	1	De 0 A 0
Change management in supply chain	Proceedings of the 2018 International Conference on Optimization and Applications, ICOA 2018 (Indexé SCOPUS)	HAYAT TAJRI Anas CHAFI	26/04/2018	1	0	De 1 A 6
Lean manufacturing for handicraft production: A new production system to enhance productivity and competitiveness of craft enterprise	Proceedings of the 2018 International Conference on Optimization and Applications, ICOA 2018 (Indexé SCOPUS)	FATINE CHOUIRAF Anas CHAFI	26/04/2018	1	1	De 1 A 6
Effect of firm characteristics on sources of supply and demand risks: An empirical investigation on Moroccan industrial firms	International Journal of Engineering Research in Africa	MARIAM EL HIRI Abdelali ENNADI Anas CHAFI	02/07/2018	40	1	De 162 A 170
Risk and performance within supply chains - Case of Moroccan industries	International Journal of Engineering Research in Africa	MARIAM EL HIRI Abdelali ENNADI Anas CHAFI	02/07/2018	34	1	De 189 A 197
The lean six sigma in a public hospital	Journal of Applied Engineering Science/Istrazivanja i Projektovanja za Privredu	KENZA TADLAOUI Anas CHAFI Abdelali ENNADI	02/07/2018	16	1	De 60 A 69
An algorithm to diagnose manufacturing hybrid systems	International Journal of Automation and Control	OMAIMA BENATIA Fouad BELMAJDOUB	02/07/2019	13	3	De 374 A 386

Specific electricity consumption optimization of raw grinding workshop in a Moroccan cement plant	Proceedings of 2018 6th International Renewable and Sustainable Energy Conference (Indexé SCOPUS)	Fouad BELMAJDOUB	02/07/2018	1	1	De 0 A 0
Fault diagnosis and prognosis in discrete event systems using statistical model and neural networks	International Journal of Mechatronics and Automation	MOHAMMED MSAAF Fouad BELMAJDOUB	03/07/2018	6	4	De 173 A 182
Modelling and Optimization Techniques for Maintenance Systems Using Simulation: a Systematic Literature Review	International Review On Modelling and Simulations (IREMOS)	YASSINE BAQQAL Mohammed EL HAMMOUMI	11/09/2019	12	3	De 0 A 0
Investigation into the Critical Sources of Wastes Influencing the Performance of Construction Projects in Morocco	The Proceedings of the Third International Conference on Smart City Applications-Springer	MOHAMED SAAD BAJJOU Anas CHAFI	02/07/2019	1	1	De 65 A 73

 Thèses soutenues durant les 5 dernières années:

Nom & prénom du doctorant	Titre de la thèse	Date de soutenance	Directeur(s) de thèse
Ayoub Alami	Application des procédures et d'instructions maintenance au niveau de la conception d'un système en vue d'une meilleure sureté de fonctionnement	09/01/2016	Brahim Herrou
Oumaima Naciri	Conception d'un tableau de bord global d'une chaine Logistique afin d'améliorer ses performances	07/05/2016	Brahim Herrou
Mostapha El Jai	Modélisation de l'interaction Production, maintenance et qualité dans un contexte industriel via une approche Holonique	29/10/2016	Brahim Herrou
Amal Boukili	Développement et optimisation des techniques de mesure en maintenance	11/07/2017	Mohammed El Hammoui
Jaouad Kazman	Développement des stratégies Supply Chain par la mise en place des concepts Lean- Application dans le domaine industriel marocain de la transformation plastique	03/07/2017	Abdelali Ennadi
Halima Tajri	Intégration d'un système de management environnemental (SME) en maintenance : Contraintes et opportunités.	23/06/2018	Mohammed El Hammoui Brahim Herrou
Mohamed Fri	Synthèse de la commande d'un système à événements discrets et élaboration d'un superviseur	19/01/2018	Fouad Belmajdoub
Kenza Tadlaoui	Amélioration continue et intégration des processus de logistique commerciale	05/07/2018	Abdelali Ennadi
Sabrina Guetibi	Utilisation de l'approche processus pour la mise en œuvre et la détermination des spécifications d'un système d'information hospitalier ouvert, communicant et répondant à l'amélioration continue	07/12/2018	Mohammed El Hammoui
Mariam El Hiri	MANAGEMENT DES RISQUES POUR L'AIDE À LA GESTION D'UNE CHAÎNE LOGISTIQUE	10/06/2019	Abdelali Ennadi
Souad Nabdi	L'amélioration les paramètres de la sûreté de fonctionnement dès la conception d'un système, étude de cas d'une éolienne.	04/05/2019	Brahim Herrou

Mohammed Msaaf	Elaboration d'un superviseur par réseaux de neurones pour la maintenance et le diagnostic des systèmes à événements discrets	31/01/2020	Fouad Belmajdoub


Collaboration :

ENSAM Meknès, FST Tanger, ENSA Kénitra


Prix et distinction :

- **Meilleur article d'un journal en Génie Industriel** : *International Journal of mechanical and Production Engineering Research and Development (Indexé SCOPUS), 30/04/2018, YASSINE EL KHAYYAM & Brahim HERROU*
- **Meilleur jeune chercheur au Maroc dans le domaine du Génie Industriel pour l'année 2018** : *Cérémonie de présentation du bilan d'étape et du programme exécutif relatif à la mise en œuvre de la réforme de l'éducation et de la formation, 17/09/2018, Accueil Royal de Sa Majesté le Roi Mohammed VI, MOHAMED SAAD BAJJOU*

Projets de recherche financés durant les 5 dernières années :

 En tant que coordonateur

Cadre du projet	Intitulé du projet	Période (de --- à ----)	Responsable du projet	Budget alloué

 En tant que membre

Cadre du projet	Intitulé du projet	Période (de --- à ----)	Responsable du projet	Etablissement (laboratoire) coordonnateur