

## HAJAR MOUSANNIF

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**Professeur Habilité**  
**Coordinatrice du Master Data Science**  
**Département d'Informatique, Faculté des Sciences Semlalia**  
**Université Cadi Ayyad**

### **I. FORMATION**

- 2012 : Doctorat en Informatique, CED- Sciences de l'Ingénieur, Université Cadi Ayyad.
- 2005 : Diplôme d'Ingénieur d'Etat à l'Institut National des Postes et Télécommunications (INPT).
- 2002 : DEUG MP à la Faculté des Sciences et Techniques Guéliz, Marrakech.
- Juin 2000 : Baccalauréat - Série Sciences Mathématiques.

### **II. POFILES**

- ✓ Website: [www.mousannifhajar.com](http://www.mousannifhajar.com)
- ✓ LinkedIn : <https://www.linkedin.com/in/hajar-mousannif>
- ✓ Google Scholar : <https://scholar.google.com/citations?user=93WZ-rYAAAAJ&hl=fr&authuser=1>
- ✓ DBLP : <http://dblp.uni-trier.de/pers/hd/m/Mousannif:Hajar>
- ✓ ORCID : <https://orcid.org/0000-0002-1307-4215>
- ✓ *Media coverage and Interviews:* <https://mousannifhajar.com/media-coverage/>

### **III. ACTIVITES DE RECHERCHE (période 2011-2020)**

#### **Brevets d'invention en Intelligence Artificielle**

1°) **Inventors:** Hajar Mousannif, Aimad Karkouch, Hassan Al Moatassime, "Système ambient de retroactions et d'évaluation des apprentissages des étudiants", Publication N° : **MA 41927 B1**, International classification : **G06Q 50/00; G06K 9/00**, publication date : **31/10/2019**, Moroccan Office of Industrial and commercial property OMPIC

2°) **Inventor :** Hajar Mousannif, « Diffusion de contenu personnalisé en se basant sur la reconnaissance des émotions via les terminaux mobiles », publication N° : **MA 20150034 A1**, International classification : **G06Q 30/02 ; G06Q 30/00**, publication date: **27.02.2015**  
(My TEDx talk about this invention on Youtube : <https://www.youtube.com/watch?v=ZeIaTASmHwg> )

**Résumé des inventions :** <https://www.leconomiste.com/article/1043146-intelligence-artificielle-une-super-inventeuse-100-made-morocco>

## Publications dans des journaux Internationaux

1. Zouhair Elamrani Abou El Assad, Hajar Mousannif, Hassan Al Moatassime (2020), Class-imbalanced crash prediction based on real-time traffic and weather data: a driving simulator study, Volume 21, 2020 - Issue 3, DOI: <https://doi.org/10.1080/15389588.2020.1723794>
2. Zouhair El Amrani Abou El Assad, **Hajar Mousannif**, H Al Moatassime, Aimad Karkouch (2020), “The application of machine learning techniques for driving behavior analysis: A conceptual framework and a systematic literature review”, Engineering Applications of Artificial Intelligence Vol:87, PP: 103312, <https://doi.org/10.1016/j.engappai.2019.103312>, **TR impact factor: 3.526**
3. Younes Oulad Sayad, **Hajar Mousannif** and Hassan Al Moatassime (2019), “Predictive modeling of wildfires: A new dataset and machine learning approach”, Fire Safety Journal, Volume 104, Pages 130-146, DOI:<https://doi.org/10.1016/j.firesaf.2019.01.006>, **TR impact Factor:2.165**
4. Hiba Asri, **Hajar Mousannif** and Hassan Al Moatassime (2019), “Reality mining and predictive analytics for building smart applications”, Journal of Big Data, vol:6, Issue:1,PP:6-66, DOI:<https://doi.org/10.1186/s40537-019-0227-y> . SJR 2018:1.12
5. Hiba Asri, **Hajar Mousannif**, Hassan Al Moatassime (2019),” Big Data Analytics in Healthcare: Case Study-Miscarriage Prediction”, International Journal of Distributed Systems and Technologies (IJDST), vol:10, Issue: 4, PP: 45-58, DOI: 10.4018/IJDST.2019100104
6. Aimad Karkouch, **Hajar Mousannif** and Hassan Al Moatassime (2019), “Towards a ubiquitous students' response system for monitoring learning performances”, International Journal of Intelligent Enterprise 6 (2-4), 242-261, DOI: <https://doi.org/10.1504/IJIE.2019.101132>. SJR 2018:0.12
7. Aimad Karkouch, **Hajar Mousannif**, Hassan Al Moatassime, Thomas Noel (2018), “A Model-Driven Framework for Data Quality Management in the Internet of Things”, Journal of Ambient Intelligence and Humanized Computing, Volume 9, Issue 4, pp 977–998, Springer, DOI: 10.1007/s12652-017-0498-0. **TR impact factor:1.588**
8. Aimad Karkouch, **Hajar Mousannif**, Hassan Al Moatassime (2018), “ CADs: A Connected Assistant for Driving Safe”, Procedia Computer Science, Volume 127, 2018, Pages 353-359, Elsevier, <https://doi.org/10.1016/j.procs.2018.01.132>
9. Hiba Asri, **Hajar Mousannif**, Hassan Al Moatassime (2018), “Comprehensive miscarriage dataset for an early miscarriage prediction », Data in Brief, Volume 19, Pages 240-243, Elsevier, <https://doi.org/10.1016/j.dib.2018.05.012>
10. Hiba Asri, **Hajar Mousannif**, Hassan Al Moatassime (2017), “Real-time Miscarriage Prediction with SPARK”, Procedia Computer Science, Vol: 113, pp: 423-428, Elsevier, <https://doi.org/10.1016/j.procs.2017.08.272>
11. Aimad Karkouch, **Hajar Mousannif**, Hassan Al Moatassime, Thomas Noel (2016), “Data quality in internet of things: A state-of-the-art survey”, Journal of Network and Computer Applications Vol: 73, pp: 57-81, Elsevier, DOI: 10.1016/j.jnca.2016.08.002. **TR impact factor 2015:3.500**
12. Aafaf Ouaddah, **Hajar Mousannif**, Anas Abou Elkalam and Abdellah Ait Ouahmane, ” Access control in The Internet of Thing: Big challenges and new opportunities” (2016), Computer Networks, Elsevier, DOI: 10.1016/j.comnet.2016.11.007, Volume 112, pp: 237–262, **TR impact factor 2014:2.516**
13. Basma Boukenze, **Hajar Mousannif**, Abdelkarim Haqiq (2016), “Predictive Analytics In Healthcare System Using Data Mining Techniques”, Computer Science & Information Technology, pp. 01–09, CS & IT-CSCP 2016, DOI : 10.5121/csit.2016.60501
14. Yasmina Douiji, **Hajar Mousannif** and Hassan Al Moatassime (2016), “ Using Youtube Comments for Text-Based Emotion Recognition”, Procedia Computer Science, Vol. 83, pp: 292-299, Elsevier, DOI: 10.1016/j.procs.2016.04.128
15. Hiba Asri, **Hajar Mousannif**, Hassan Al Moatassime, and Thomas Noel (2016), “Using Machine Learning Algorithms for Breast Cancer Risk Prediction and Diagnosis”, Procedia Computer Science, Vol: 83, pp: 1064-1069, Elsevier, DOI:10.1016/j.procs.2016.04.224

16. **Hajar Mousannif**, Hasna Sabah, Yasmina Douiji, Younes Oulad Sayad, (2016), “Big Data Projects: Just Jump Right in!”, International Journal of Pervasive Computing and Communications (IJPCC), Volume 12, issue 2, pp.260 – 288, **Emerald**, Available on the **Master journal List of Thomson Reuters**, DOI:10.1108/IJPCC-04-2016-0023
17. Sara Najam, **Hajar Mousannif** and Mohammed Ouzzif, “A Secure Attribute-based Model to Foster Collaboration in Healthcare Systems” (2014), **International Journal of Computer Science and Information Security (IJCSIS)**, Vol. 12 Issue 8, pp 10-19
18. **Hajar Mousannif**, Ismail Khalil and Gabriele Kotsis (2013), “The cloud is not “there”, we are the cloud!”, **International Journal of Web and Grid Services (IJWGS)**, Vol. 9 Issue 1, pp:1-17, Inderscience, DOI: 10.1504/IJWGS.2013.052854, **TR impact factor: 1.229**
19. **Hajar Mousannif**, Ismail Khalil and Gabriele Kotsis (2013), “Collaborative learning in the clouds”, **Information Systems Frontiers**, Vol. 15 Issue 2, pp 159-165, **Springer**, DOI:10.1007/s10796-012-9364-y, **TR impact factor: 1.450**
20. **Hajar Mousannif**, Ismail Khalil, (2012), "Cooperative data management in WSN", International Journal of Computational Intelligence Systems (IJCIS), Vol. 5 Issue 3, pp. 403-412 DOI:10.1080/18756891.2012.696890, TR impact factor : **1.14**
21. **Hajar Mousannif**, Ismail Khalil, Stephan Olariu (2012), Cooperation as a Service in VANET: Implementation and Simulation results, Mobile Information Systems Journal, Vol. 8 Issue 2, pp.153-172. IOS Press, DOI: 10.3233/MIS-2012-0136, TR impact factor : **0.849**
22. **Hajar Mousannif**, Ismail Khalil, Hassan Al Moatassime, (2011), "Cooperation as a Service in VANETs", Journal of Universal Computer Science, Vol.17 Issue: 8, pp. 1202-1218. DOI: 10.3217/jucs-017-08-1202, TR impact factor: 0.696
23. **Hajar Mousannif**, Hassan Al Moatassime, Said Rakrak, (2011), "An energy-efficient scheme for reporting events over WSNs", International Journal of Pervasive Computing and Communications, Vol. 7 Issue 1, pp.44 – 59, **EMERALD**, DOI: 10.1108/17427371111123685.

### Chapitre d'ouvrage

24. Noussair Lazrek, Jihad Zahir and **Hajar Mousannif (2018)**. “Air Quality monitoring using statistical methods”. In: Farhaoui Y., Moussaid L. (eds) Big Data and Smart Digital Environment. ICBDSDE 2018. Studies in Big Data, vol 53. Springer, Cham, DOI: [https://doi.org/10.1007/978-3-030-12048-1\\_39](https://doi.org/10.1007/978-3-030-12048-1_39)
25. Omaira El Ansari, Jihad Zahir, **Hajar Mousannif (2018)**, “Context-Based Sentiment Analysis: A Survey”. In: Abdelwahed E. et al. (eds) New Trends in Model and Data Engineering. MEDI 2018. Communications in Computer and Information Science, vol 929. Springer, Cham, DOI: [https://doi.org/10.1007/978-3-030-02852-7\\_8](https://doi.org/10.1007/978-3-030-02852-7_8)
26. **Hajar Mousannif** and Ismail Khalil (2014), “The Human Face of Mobile”, Information and Communication Technology, Volume 8407, 2014, pp 1-20, **Springer**, DOI:10.1007/978-3-642-55032-4\_1

### Publications dans des proceedings de conférences internationales

27. Lazrak Noussair, Jesualdo Tomás Fernández Breis, Jihad Zahir, Hajar Mousannif (2019), “Towards Distributed Learning in Internet of Things. Air Quality Monitoring Use Case”, In: Attiogbé C., Ferrarotti F., Maabout S. (eds) New Trends in Model and Data Engineering. MEDI 2019. Communications in Computer and Information Science, vol 1085. Springer, Cham. DOI: [https://doi.org/10.1007/978-3-030-32213-7\\_12](https://doi.org/10.1007/978-3-030-32213-7_12)
28. Hiba Asri, Hajar Mousannif, Hassan Al Moatassim, 2019, “A Hybrid Data Mining Classifier for Breast Cancer Prediction”, International Conference on Advanced Intelligent Systems for Sustainable Development, AI2SD2019, Marrakech, July 2019. [https://link.springer.com/chapter/10.1007/978-3-030-36664-3\\_2](https://link.springer.com/chapter/10.1007/978-3-030-36664-3_2)

29. Zouhair Elamrani Abou El Assad and **Hajar Mousannif (2018)**, “Understanding driving behavior: measurement, modeling and analysis”, in Proceeding of Advanced Intelligent Systems for Sustainable Development (AI2SD2018), Tangier, 12-14 July 2018, Springer, DOI: [https://doi.org/10.1007/978-3-030-11928-7\\_41](https://doi.org/10.1007/978-3-030-11928-7_41)
30. Noussair Lazrek, Jihad Zahir and **Hajar Mousannif (2018)**, “Responsive cities and data gathering: challenges and opportunities”, in Proceeding of 3rd International Conference on Smart City Applications (SCA 2018), Tetouan, Morocco — October 10 - 11, 2018, Springer, [https://doi.org/10.1007/978-3-030-12048-1\\_39](https://doi.org/10.1007/978-3-030-12048-1_39)
31. Noussair Lazrek, Jihad Zahir and **Hajar Mousannif (2018)**, “Air Quality monitoring using statistical methods”, in Proceeding of The International Conference on Big Data and Smart Digital Environment, November 29-30, 2018, Casablanca.
32. Omaima El Ansari, Jihad Zahir, **Hajar Mousannif (2018)**, “Context-Based Sentiment Analysis: A Survey”, in Proceeding of International Conference on Model and Data Engineering (MEDI 2018), DOI: [https://doi.org/10.1007/978-3-030-02852-7\\_8](https://doi.org/10.1007/978-3-030-02852-7_8)
33. **Hajar Mousannif** and Jihad Zahir (2018), “AgriFuture: A New Theory of Change Approach to Building Climate-resilient Agriculture”, in Proceeding of Advanced Intelligent Systems for Sustainable Development (AI2SD2018), Tangier, 12-14 July 2018, Springer. DOI: [https://doi.org/10.1007/978-3-030-11878-5\\_10](https://doi.org/10.1007/978-3-030-11878-5_10)
34. Hiba Asri, **Hajar Mousannif**, Hassan Al Moatassime (2017), “Real-time Miscarriage Prediction with SPARK”, In proceeding of The 7th International Conference on Current and Future Trends of Information and Communication Technologies in Healthcare (ICTH 2017) September 18-20, 2017, Lund, Sweden, <https://doi.org/10.1016/j.procs.2017.08.272>
35. Younes Oulad Sayad, **Hajar Mousannif** and Hassan Al Moatassime. “Leveraging Remotely-Sensed Data for Forest Fire Prediction Using Data Mining Algorithms”, The Sixth International Conference on Next Generation Networks & Services: NGNS 2016, December 2016, Rabat
36. Aafaf Ouaddah, **Hajar Mousannif**, Anas Abou Elkalam, Abdellah Ait Ouahman, “Access Control in IoT: Survey & State of the Art”, In proceeding of the 5th International Conference on Multimedia Computing and Systems, October 2016, Marrakech, Morocco, **IEEEExplore**
37. Basma Boukenze, **Hajar Mousannif** and Abdelkerim Haqiq, “Proposed Platform IPHCS for Predictive Analysis in Healthcare System by Using Big Data Techniques”, in proceeding of the The Third International Conference on Data Mining, Internet Computing, and Big Data, Konya, Turkey 2016, SDIWC Digital Library
38. Basma Boukenze, Abdelkerim Haqiq and **Hajar Mousannif**, “Predicting chronic kidney failure disease using data mining techniques”, in proceeding of the Second International Symposium on Ubiquitous Networking UNET’16, Advances in Ubiquitous Networking 2, Lecture Notes in Electrical Engineering (LNEE), Vol 397, pp 701-712, **Springer**, Casablanca, May 2016, DOI 10.1007/978-981-10-1627-1\_55
39. Aimad Karkouch, **Hajar Mousannif**, Hassan Al Moatassime and Thomas Noel, “A Model-Driven Architecture-based Data Quality Management Framework for the Internet of Things”, In proceeding of CloudTech2016, May 2016, Marrakech, Morocco, **IEEEExplore**
40. Yasmina Douiji, **Hajar Mousannif** and Hassan Al Moatassime, “ Using Youtube Comments for Text-Based Emotion Recognition”, in proceeding of The 7th International Conference on Ambient Systems, Networks and Technologies (ANT-2016), May 2016, Madrid, Spain, **Elsevier**, DOI: 10.1016/j.procs.2016.04.128
41. Hiba Asri, **Hajar Mousannif**, Hassan Al Moatassime, and Thomas Noel, “Using Machine Learning Algorithms for Breast Cancer Risk Prediction and Diagnosis” in proceeding of The 6th International Symposium on Frontiers in Ambient and Mobile Systems (FAMS 2016), May 2016, Madrid, Spain, **Elsevier**, DOI: 10.1016/j.procs.2016.04.224
42. Yasmina Douiji and **Hajar Mousannif**, “I-CARE: Intelligent Context Aware system for Recognizing Emotions from Text”, in proceeding of the 10th International Conference on

- Intelligent Systems: Theories and Applications, Rabat, October 2015, **IEEE Xplore**, DOI: 10.1109/SITA.2015.7358408
43. Aimad Karkouch, **Hajar Mousannif**, Hassan Al Moatassime and Thomas Noel, "Data Quality Enhancement in Internet of Things Environment", in Proceeding of the 12th ACS/IEEE International Conference on Computer Systems and Applications AICCSA, Marrakech, November 2015, **IEEE Xplore**, DOI: 10.1109/AICCSA.2015.7507117
  44. Sara Najam, **Hajar Mousannif** and Mohamed Ouzzif, "Building a Structured Collaboration System From XML Specification", in Proceeding of the 12th ACS/IEEE International Conference on Computer Systems and Applications AICCSA, Marrakech, November 2015, **IEEE Xplore**, DOI: 10.1109/AICCSA.2015.7507233
  45. Aafaf Ouaddah, **Hajar Mousannif** and Abdellah Ait Ouahmane, "Access control in Internet Of Things : the road ahead", in Proceeding of the 12th ACS/IEEE International Conference on Computer Systems and Applications AICCSA, Marrakech, November 2015, **IEEE Xplore**, DOI: 10.1109/AICCSA.2015.7507090
  46. **Hajar Mousannif**, Hiba Asri, Hassan Al Moatassime and Thomas Noel, "Big data in Healthcare: Challenges and Opportunities", In proceeding of International Workshop on Big Data 2015, Marrakech, June 2015, Morocco, **IEEE Xplore**, DOI: 10.1109/CloudTech.2015.7337020
  47. Younes Oulad Sayad, **Hajar Mousannif** and Michel Le Page, "Crop Management Using BIG DATA", In proceeding of CloudTech2015, June 2015, Marrakech, Morocco, **IEEE Xplore**, DOI: 10.1109/CloudTech.2015.7337003
  48. **Hajar Mousannif**, Hasna Sabah, Yasmina Douiji and Younes Oulad Sayad, "From Big Data to Big Projects: A Step-by-Step Roadmap, in proceeding of International Symposium on Big Data Research and Innovation, collocated with 2<sup>nd</sup> FiCloud 2014 and 11<sup>th</sup> MobiWIS 2014, August 27 - 29, 2014, Barcelona, Spain, IEEE Xplore. DOI: 10.1109/FiCloud.2014.66
  49. **Hajar Mousannif** and Ismail Khalil, "The human face of mobile", Second IFIP TC5/8 International Conference, ICT-EurAsia 2014, Bali, **Indonesia**, April 14-17, 2014, Lecture Notes in Computer Science, **Springer**, DOI:10.1007/978-3-642-55032-4\_1
  50. Mohamed Riduan Abid, Ismail Fassi Fihri, **Hajar Mousannif**, Mohamed Bakhouya, Chaker El Amrani, Mohammed Aissaoui, Moulay Driss El Ouadghiri, Abdelkrim Haqiq, Awatif Hayar, Mohamed Essaaidi, MarUnivCloud: Towards a Moroccan inter-University Cloud, in proceeding of the 2<sup>nd</sup> World Conference on Complex Systems, November 10-13, 2014, Agadir, Morocco. **IEEE Xplore**, DOI: 10.1109/ICoCS.2014.7060981
  51. **Hajar Mousannif**, Ismail Khalil, Stephan Olariu, "Cooperation in Static and Mobile Sensor-based Platforms for Situation, Activity and Goal Awareness", in proceeding of SAGAware'11: International Workshop on Situation, Activity and Goal Awareness at the 13th ACM International Conference on Ubiquitous Computing (UbiComp2011), September 17-21, 2011, Beijing, China, **ACM DL Digital Library**, DOI: 10.1145/2030045.2030050
  52. **Hajar Mousannif**, Said Rakrak, Hassan Al Moatassime, "a new clustering scheme for wireless sensor networks with mobile sinks", in proceeding of the 12th international conference on information integration and web-based application & services (iiwas2010), 8-10 November 2010, Paris, France, **ACM DL Digital Library**, DOI: 10.1145/1971519.1971560
  53. **Hajar Mousannif**, Said Rakrak, Hassan Al Moatassime, "Wireless Sensor Networks: a new event notification approach", in proceeding of the 5th international symposium on i/v communications and mobile network (ISIVC), 2010; Sept. 30- oct. 2, Rabat, Morocco, **IEEE Xplore**, DOI: 10.1109/ISVC.2010.5654713
  54. **Hajar Mousannif**, Said Rakrak, Hassan Al Moatassime, " an energy-efficient algorithm for reporting events over wireless sensor networks with mobile sinks", International Conference on Next Generation Networks & Services NGNs 2010, Marrakech, Morocco, July 08 - 10, 2010. **IEEE Xplore**, ISBN: 978-9954-9091-0-2

#### Activités d'Encadrement de thèse de Doctorat

- 4 thèses de Doctorat soutenues sous ma direction :
  - Thèse de Mme Hiba Asri :

- Sujet de thèse : « **Techniques Avancées d'Analyse de Données Massives pour le Reality Mining** », date de soutenance : 12/10/2019
- Thèse de M. Younes Oulad Sayad :  
Sujet de thèse : « **Nouvelle Contribution d'Analyse Prédictive des Données Massives : Applications Aux Données De Télédétection Spatiale** », date de soutenance : 27/04/2019
  - Thèse de M. Aimad Karkouch :  
Sujet de thèse : « **Caractérisation, Modélisation et Gestion de la Qualité des Données dans l'Internet des Objets** », date de soutenance : 10/03/2018
  - Thèse de Mme Boukenze Basma  
Sujet de thèse : « **Analyse prédictive dans le domaine Médical et Big Data : Cas d'insuffisance Rénale chronique** », date de soutenance : 23/09/2017
- 3 thèses de doctorat en cours sous mon encadrement

### Activités d'évaluations scientifiques

- **Rapporteur de thèse de Doctorat:**
  - Thèse de Doctorat de Mme **Sara HADDOU BOUAZZA**. Intitulé : « Contribution à l'amélioration des méthodes de sélection et de classification pour le diagnostic du cancer à base des puces à ADN », soutenue publiquement le 10/07/2019
  - Thèse de Doctorat de **M. Smuts (Nielson Mandela University, South Africa)**. Intitulé : « A multi-Factor Model for Range Estimation In Electric Vehicles », 2019
  - Thèse de Doctorat de **M. Jamal Talbi** (Université Hassan 1<sup>er</sup>). Intitulé : « Contribution aux Choix des Fournisseurs du Cloud: Approche basée sur la Gestion des Risques de Sécurité », soutenue publiquement le 07/07/2018.
  - Examinatrice de thèse de Doctorat de **M. Ismail El Bazi** (Université Hassan 1<sup>er</sup>), soutenue publiquement le 17/07/2018.
  - Examinatrice de thèse de **M. Omar Achbarou**. Intitulé : « Sécurité du Cloud Computing : Approche multi-agent pour la détection d'intrusion », Soutenue publiquement le 04/05/2019
  - Examinatrice de thèse de **M. Harrati Youssef**. Intitulé : « Vers une approche d'optimisation des performances des réseaux tolérants aux délais basée sur la gestion des rejets », Soutenue publiquement le 25/04/2019
- **Conference Co-Chair:** AI2SD2019
- **Workshop Chair:** The Makerspace Workshop on High Performance Computing and Robotics, Marrakech 17-22 Dec 2018
- **Technical Program Committee member :** ARABWIC 2019, BigRI2018, AI2SD 2018, ICICS2017, NGNS16, ISCV'2017, ANT-2017, HIS 2016, ICMCS'16, CloudTech'16, ANT-2016, BigRI2016, ICICS2016, MoMM2015, CLOUDTECH 2015, BigR&I-2015, IJCDS-2014, WNCS 2014, NGNS 2014, ICMCS'14, WVNT2013, iCEER 2013, MoMM2012
- **Technical Program Committee Chair:** ICDS2019, ICAD'18, AECIA 2016, WICT 2015, ISDA'15, Track chair AICCSA'16
- **Session Chair:** ICAD'18, IAS'17, SoCPaR'17, IBICA'17, ICMCS'16, AICCSA'15, AECIA 2016, WICT 2015, ISDA'15

- **Reviewer dans les journaux:**
  - Computer Communications, Elsevier
  - Vehicular Communications, Elsevier
  - Engineering Science and Technology, Elsevier
  - Information Systems Frontiers (ISF), Springer
  - Concurrency And Computation: Practice And Experience (IJCDS)
  - International Journal of Distributed Sensor Networks (IJDSN)

### Projets de recherche

- « **Outil d'Aide à la Décision et de Tracking du Covid-19 via les techniques de Graph Analysis et l'Intelligence Artificielle** », May 2020, [Programme de Soutien à la Recherche en lien avec le Covid-19](#)
- Erasmus+, Action: Higher education student and staff mobility between Programme and Partner Countries (KA107), University Of The West Of Scotland and Cadi Ayyad, 2019
- « Mining the Web for Insights on Violence Against Women and Conflict-Related Gender-Based Violence in the MENA Region and Arab States », funded by the United Nations (10 out of 125 accepted), 70000\$, started in Jan 2018.
- “Amélioration de la sécurité routière en utilisant le Big data et l'Intelligence Artificielle”: Ministère de Transport, CNRST Grant, (6 sur 122 acceptés), Budget 330.000DH , 2017
- « Quantification et prédiction des niveaux d'apprentissage en temps réel dans les salles de classe connectées en utilisant l'Internet des Objets et l'Intelligence Artificielle (A-SRS) », Appel À Projets Socialement Responsables 2017, projet incubé à l'Université Cadi Ayyad.
- Cloud Computing for Cooperation (C3Lab): <http://www.c3lab.tk.jku.at/index.php/en/>, budget : 50000Euros (2011)
- “Big data and Emotion recognition”: Financement par l'Oréal-UNESCO, budget: 10.000Euros

### Keynote speaker:

- Webinaire : « **IA et Machine Learning au service de la modélisation de la COVID-19** », Vendredi 10 Avril 2020 à 19h, <https://www.youtube.com/watch?v=u2HHwsWyKDO>
- « **Dermatologie Augmentée grâce à l'Intelligence Artificielle** », 17<sup>ème</sup> congrès du CODECPA, Mazagan Beach Resort, El Jadida, 06-07 Mars 2020.
- « **AI et IoT au Service de l'industrie 4.0 : Les challenge de l'ingénieur du futur** », 6<sup>ème</sup> édition du forum des entreprises de l'ENSA de Kenitra, 26 Février 2020.
- « **La Formation Médicale Continue au Maroc: Etats des Lieux, Problématique et Perspectives** », 22 Février 2020.
- “**Digital Health: quelles perspectives au Maroc ?**”, 7<sup>ème</sup> édition de la journée MedBioTech, Rabat 19 December 2019
- « **Advanced Applications of Artificial Intelligence**», International conference and summer school AI2SD2019, Marrakech, July 08-11, 2019
- « **L'Intelligence Artificielle au service de la santé** », conférence inaugurale du Forum Pharmaceutique International PFI 2019, sous le haut patronage de sa Majesté le

Roi Mohammed VI (Audience 2500 personnes), Palais des Congrès Marrakech 05-06 Juillet 2019.

- « **l'IA au service des Sciences de la santé** », Colloque International sur l'Intelligence Artificielle en Sciences de la Santé, université Mohammed 6 des Sciences de la santé, 28 Mars 2019.
- “**Artificial Intelligence for IoT based systems**”, colloque international sur les objets et systèmes connectés, 17-18 Juin 2019, Casablanca
- “**Artificial Intelligence, Machine Learning, and beyond**”, The Makerspace Workshop on High Performance Computing and Robotics, Marrakech 17-22 Dec 2018
- “**Introduction to Machine Learning**”, The International Conference on Big Data and Smart Digital Environment, November 29-30, 2018, Casablanca
- “**Big Data Analytics for IoT based platforms**”, IEEE Women In Engineering International Leader Summit, in conjunction with CIST2018, 21-27 Oct 2018
- “**Machine Learning and Applications**”, the 3rd international conference on advanced information technology, services and systems, 17<sup>th</sup> and 18<sup>th</sup> october 2018 - fs & technologies - Mohammedia - Morocco
- “**Introduction to Machine Learning algorithms**”, International School For Big Data and Data mining Models, Tangier, 12-14 July, 2018.
- “**Tutorial: Machine Learning in Medicine**”, Summer school on Modern Mathematical and Statistical Computing Methods in Medicine, 3<sup>rd</sup> to 6<sup>th</sup> of July 2018, Marrakesh, Morocco.
- “**Data in the Real World**”, March 20<sup>th</sup>, 2018 ENSIAS, Rabat, Morocco
- Speech title: “**Towards a Smarter, healthier and happier world with Clouds, Big Data and IoT**”, Advanced Information Technology, Services and Systems (AIT2S2017). April 14/15 2017, Tangier.
- Speech title: “**Big Data projects, just jump right in!**”, International Symposium on Data Engineering and Information Systems (DEIS2017), May 19-20 2017.
- Speech title: “**Data for Smart Spaces**”, The Mediterranean Symposium on Smart City Applications (SCAMS 2017), October 25-27, 2017, Tangier, Morocco.
- Speaker at TEDx Casablanca : « A Smart Phone that Knows You're Angry », Youtube (900 people attended): <https://www.youtube.com/watch?v=ZeIaTASmHwg>

#### Interviews de presse :

- 12 Mai 2020 : Maroc Hebdo, <https://www.maroc-hebdo.press.ma/equilibre-sante-publique-economie>
- 13 Avril 2020, <https://www.leconomiste.com/article/1060343-le-formidable-potentiel-de-l-intelligence-artificielle>
- 03 Octobre 2019 : Tribune de L'Economiste : <https://www.leconomiste.com/article/1051109-intelligence-artificielle-ou-la-creation-destructrice>
- 30 Juin 2019 : Interview LTE magazine : <http://lte.ma/entretien-avec-mme-hajarmousannif-experte-entre-autres-en-intelligence-artificielle>
- 2 avril 2019 : <https://www.leconomiste.com/article/1043146-intelligence-artificielle-une-super-inventeuse-100-made-morocco>
- 8 mars 2019 : L'Initiative International : <https://linitiative.ca/International/hajarmousannif-ou-le-modele-dune-jeune-chercheuse-en-atomes-crochus-avec-lintelligence-artificielle/>

#### Autres activités



- En 2014, Prof. Invité pour un séjour de recherche à l'Institut Universitaire de Technologie (IUT) Metz, Université de Lorraine, France.
- Membre de la commission de Recherche du Département depuis 2013.
- Membre du conseil de la faculté depuis 2018.

#### IV. PEDAGOGIE ET ENSEIGNEMENT

- 2013-2019 : Faculté des Sciences Semlalia, Université Cadi Ayyad, Marrakech
  - Modules enseignés : Machine Learning, Big data analytics, Statistics for data science, Technologies WEB2.0, Réseaux Télécoms et Réseaux Mobiles, Structure et Fonctionnement des ordinateurs, Architecture des ordinateurs, TCP/IP, Administration des Réseaux, Switching & Routage.
- 2005- 2012 : Faculté des Sciences et Techniques, Université Cadi Ayyad, Marrakech
  - Modules enseignés : Administration et gestion des Réseaux, IHM (Interface Homme Machine en Java), Linux : Utilisation et Administration, TCP/IP, Réseaux Informatiques, Réseaux Mobiles, Administration des services Réseaux, Systèmes d'exploitation.
- Encadrement de plusieurs projets de fin d'Etudes, Membre du Jury du PFE : Licence et Master

#### V. ACTIVITES D'OUVERTURE ET DE COMMUNICATION

- Host staff committee au 39th Annual World Finals of the ACM International Collegiate Programming Contest (ACM ICPC 2015) (<https://icpc.baylor.edu/>), 15-21 Mai 2015. Manifestation à caractère international, 124 pays & 1400 personnes y ont participé.
- Speaker au TEDx Casablanca (également diffusé en live broadcast) Intitulé de la présentation : « A Smart Phone that Knows You're Angry »
  - 900 Personnes y ont assisté, et plus de 3300 vues sur Youtube.
- Animations de plusieurs séminaires :
  - « Innovation et Recherche au sein de la PME au Maroc », tenue le 06 Juin 2014, Centre des Jeunes Dirigeants d'Entreprises.
  - « Innovation into action: Unleash your creativity », USTM-TIES: Personal and professional development workshop, tenu le 13-14 Mars 2014.

#### VI. CERTIFICATS ET DISTINCTIONS

- 2019 : **Premier prix** « Sustainability » au Solar Decathlon Africa et 3<sup>ème</sup> place au podium (classement global). Prix : 800.000Dhs
- 2019: **Prix de l'éducation entrepreneuriale**, 13e édition de la Journée nationale de l'entreprise organisée par le Centre des jeunes dirigeants (CJD).
- 2018 : **Data2X Big Data Challenge Award**
- 2017: le **premier prix Recherche** de la 11ème édition du Concours National de l'Innovation, de la Recherche-Développement et de la Technologie, catégorie "Jeunes chercheurs et doctorants"
- 2015: Elsevier Recognized reviewer

- 2014: **Prix l'oréal-UNESCO** (10.000Euros): “For Women in Science”, region Maghreb.
- 2014: Finaliste de la 9ème édition du concours national de l'innovation, de la recherche-développement et de la technologie.
- 2012: Outstanding Paper Award Winner at the Literati Network Awards for Excellence 2012”
- 2012: Certificat GoogleApps for Education
- 2009: Certificat C2i

## **VII. LANGUES**

- Arabe, Français: Lues, Ecrites, Parlées.
- Anglais : - niveau Proficiency  
diplôme TOEIC (score 880)
- Allemand et espagnol: Débutante.
- Loisirs: Poésie, Piano