

## **HAJAR MOUSANNIF**

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**Associate Professor**  
**Computer Science Department, Faculty of Sciences Semlalia**  
**Coordinator of the Master program: “Data Science”**

### **I. ACADEMIC BAGROUND**

- 2012 : PhD in Computer Science, Cadi Ayyad University, Marrakech.
- 2005 : Engineering Degree in Telecommunications, National Institute of Post and Telecommunications (INPT).
- June 2000 : Bacalaureate Degree.

### **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. PUBLICATIONS (period 2011-2020)**

#### **Patents in Artificial Intelligence**

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> )

#### **Publications in International journals**

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, **TR Impact Factor: 1.465**, 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 (IJ DST), vol:10, Issue: 4, PP: 45-58, DOI: 10.4018/IJ DST.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/IJPC-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.

### **Book Chapter**

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. Omaima 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 in conference proceedings**

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**, “Understanding driving behavior: measurement, modeling and analysis”, in **Proceeding of Advanced Intelligent Systems for Sustainable Development (AI2SD2018)**, Tangier, 12-14 July 2018, Springer
30. Noussair Lazrek, Jihad Zahir and **Hajar Mousannif**, “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

31. Noussair Lazrek, Jihad Zahir and **Hajar Mousannif**, “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**, “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, “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.
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, **IEEEExplore**, 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, **IEEEExplore**, 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, **IEEEExplore**, 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, **IEEEExplore**, 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, **IEEEExplore**, 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, **IEEEExplore**, 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 Essaaïdi, 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, **IEEEExplore**, 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. **IEEEExplore**, ISBN: 978-9954-9091-0-2

### Research activities

- **Conference co-Chair:** AI2SD2019
- Workshop Chair: The Makerspace Workshop on High Performance Computing and Robotics, Marrakech 17-22 Dec 2018
- **Technical Program Committee member :** 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 in:**
  - Computer Communications, Elsevier
  - Vehicular Communications, Elsevier
  - Engineering Science and Technology, Elsevier
  - Information Systems Frontiers (ISF), Springer
  - Concurrency And Computation: Practice And Experience (IJCS)
  - International Journal of Distributed Sensor Networks (IJDSN)

### Research Projects

- « **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), Budget 70.000 Dollars, started in Jan 2018.
- “Enhancing Road safety with Big Data and Intelligent cooperative systems”: Ministry of transportation, CNRST Grant, (6 out of 122 accepted), 2017, Budget 330.000DH
- « 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
- “Big data and Emotion recognition”: l'Oréal-UNESCO Grant, 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=u2HHwsWyKQDQ>
- « **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 Fevrier 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 18th 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>

### Other activities

- 4 defended thesis under my supervision:
  - 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 ongoing thesis under my supervision
- En 2014, invited professor for a research stay in « Institut Universitaire de Technologie (IUT) » Metz, Université de Lorraine, France.
- Member of management committee of Faculty of Sciences Semlalia since 2017
- Member of the research committee in the Computer Science Department since 2013.

#### **Interviews:**

- 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-hajar-mousannif-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/hajar-mousannif-ou-le-modele-dune-jeune-chercheuse-en-atomes-crochus-avec-lintelligence-artificielle/>

#### **IV. COMMUNICATIONS ACTIVITES**

- Host staff committee in the 39th Annual World Finals of the ACM International Collegiate Programming Contest (ACM ICPC 2015) (<https://icpc.baylor.edu/>), 15-21 May 2015.
- Many seminars :
  - « Innovation et Recherche au sein de la PME au Maroc », June 6th, 2014, Centre des Jeunes Dirigeants d'Entreprises.
  - « Innovation into action: Unleash your creativity », USTM-TIES: Personal and professional development workshop, 13-14 March 2014

#### **V. TEACHINGS :**

- 2013-2019: Faculty of Sciences Semlalia, Cadi Ayyad University, Marrakech  
Modules taught: Machine Learning, Big data analytics, Statistics, WEB2.0 Technologies, Telecommunication and Mobile Networks, Computer Architectures, Network Administration, Switching & Routing.
- 2005- 2012: Faculty of Science and Techniques, Cadi Ayyad University, Marrakech  
Modules taught: Administration and management of Networks, Human Machine Interface (GUI), Linux: Use and Administration, TCP / IP, Computer Networks, Mobile Networks, Network Services Administration, Operating Systems.
- Supervision of several end-of-studies projects, Member of the PFE Jury: Bachelor and Master degree.

#### **VI. CERTIFICATES**



- 2019 : 1st prize of « Sustainability » in Solar Decathlon Africa et 3<sup>rd</sup> place overall. Award : 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: 1<sup>st</sup> Prize of research in the 11<sup>th</sup> edition of the National innovation and research contest (R&D Maroc)
- 2015: Elsevier Recognized reviewer
- 2014: L'oréal-UNESCO Prize (10.000Euros): "For Women in Science", Maghreb region.
- 2014: Finalist of the 9<sup>th</sup> edition of innovation and research contest (R&D Maroc)
- 2012: Outstanding Paper Award Winner at the Literati Network Awards for Excellence 2012
- 2012: GoogleApps for Education Certificate
- 2009: C2i Certificate

## **VII. LANGUAGES**

- English, Arabic, French
- Hobbies : Writing poems and Piano