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Computer Vision and Machine Learning for image analysis

Professional Experiences in Ireland, Spain and France (over 10 years in the field of image analysis)

- 2016-Present: **Permanent Associate Professor** (full-time) at the "University of Upper Alsace" (UHA), IRIMAS Institute, Department of Computer Science, **Research Team on Visual Data Analysis**, Mulhouse, France.
- 2013-2016: **Permanent Associate Professor** (full-time) at the "École Supérieure d'Ingénieurs Consulaire" (ESIGELEC), IRSEEM Institute, Department of ICT, **Research Team on Perception**, Rouen, France.
  2015-2016: **Head of the international Master training in Information Systems**
- 2011-2013: **Post-doctoral Researcher** (full-time) in computer science at the National University of Ireland Maynooth (NUIM), Callan Institute, Department of Computer Science, **Computer Vision and Image Laboratory**, Dublin.
- 2008-2011: **Adjunct Assistant Professor** in computer science at "Université Paris Descartes" (UP5), Paris.
- 2010, 2011: **Visiting Scientist** in 2D&3D imagery at "Universidad del País Vasco" (UPV/EHU), Department of Computer Science and Artificial Intelligence, San Sebastian, Spain.
- 2008-2011: **Ph.D. Student in Image and 3D processing** (full-time) at IGN Institute, MATIS laboratory on Image Analysis, Paris.

Education

- **2013: Certifications to the rank of Associate Professor "Maître de Conférences"** in the field of Computer Science as well as in the field of Imagery from the French National Council of Universities.
- **2011: Ph.D. in ICT** from IGN, "Université Paris-Est", "Universidad del País Vasco" (European mention).
  The Ph.D. thesis is entitled: *"Contributions to the 3D city modeling: 3D polyhedral building model reconstruction from aerial images and 3D facade modeling from terrestrial 3D point cloud and images"* (accessible from https://hal.inria.fr/STAR/tel-00682442)
- **2008: MS degree in Computer Science speciality Image Analysis** from the "Université Paris Descartes", .
- **2007: Bachelor's degree** in Mathematics from the "Université de Picardie Jules Verne", France.
- **2006: Bachelor's degree** in Computer Science from the "Université de Picardie Jules Verne", France.

Sample of recent research works investigated in medical image analysis and artificial intelligence

Keywords: image analysis, image detection, image classification, image segmentation.

- K. Hammoudi et al. (international SHREC contest) **Protein Shape Retrieval**. In Eurographics workshop on 3D Object Retrieval (3DOR), SHREC contest, Genova, Italy, Eurographics DL, May 2019. (in press, http://3dor2019.ge.imati.cnr.it/program)

- H. Benhabiles, K. Hammoudi et al. **A Transfer Learning exploited for Indexing Protein Structures from 3D Point Clouds**. In MICCAI workshop (SaMBa 2018), LNCS Springer, Granada, Spain, 2018. https://doi.org/10.1007/978-3-030-13835-6_10

- K. Hammoudi et al. **A Comparative Study of 2 Resolution-level LBP Descriptors and Compact Versions for Visual Analysis**. In FutureTech, LNEE Springer, University of Salerno, Italy, 2018. https://doi.org/10.1007/978-981-13-1328-8_28

Sample of investigated ICT-related R&D projects

- 360° Viewer (Project ITOWNS, French National Research Agency)

- Perception for Autonomous Platforms (Project SAVEMORE, European INTERREG FR/UK)

- Image Scene Analysis for Mobile Mapping Systems (Project StratAG, Science Foundation Ireland)

- Protein Shape Retrieval (international contest SHREC 2019).

- Scientific Outputs are available at http://karimhammoudi.free.fr.