

Clement DUHART

Research-Teacher, PhD

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Professional

- 2017 **Research Lab.**, *MIT Medialab*, Boston, MA USA.
Postdoctoral Fellow at Responsive Environment Group.
- Q4 2016 **Research-Teacher**, *ESILV Pole Léonard de Vinci*, La Défense, FRANCE.
- Q1 2016 **Research Lab.**, *MIT Medialab*, Boston, MA USA.
Visiting Researcher at Responsive Environment Group.
- Since 2011 **Research-Teacher**, *Ecole Centrale d'Electronique (ECE) Paris*, FRANCE.
Lectures :
 - Master : Artificial Intelligence and Robotic
 - Master : Machine Learning and Big Data
 - Master : Wireless Sensor Network and μ -Kernel
 - Undergraduate : Linux and Networks
- Q2-Q3 2011 **Research Lab.**, *Electricité De France (EDF)*, Paris FRANCE.
Web Middleware Development for Wireless Sensor Network. Applications : μ -SmartGrids.
- Q2-Q3 2010 **Research Lab.**, *Electricité De France (EDF)*, Paris FRANCE.
Web Middleware Development for Wireless Sensor Network. Applications : μ -SmartGrids.
- Q3 2009 **Front Office**, *OFI Asset Management*, Paris FRANCE.
Operations Research and HCI for Assets Risk Management Systems.
- Q3 2008 **Start-Up Developper** , *Jungul Communication*, Bayonne FRANCE.
Operations Research and Web Developpement for Logistic Management System.

Skills

Computer Science :

- Programming : C, C++, Java, C# and Assembly
- Embedded Systems : Android, Contiki OS, TinyOS and RTOS
- Network : IPV4, IPV6, 6LoWPAN, ZigBee, BLE and CAN
- Simulations : MathLab SimuLink, Octave, ISIS and Pspice
- Data Base : SQL, MongoDB and Redis
- Web technologies : Coffee Script, Javascript and PHP
- Manufacturing : Altium, Eagle, SolidWorks, 3D-Print, G-code

Artificial Intelligence :

- Machine Learning : Tensorflow, AdaBoost, QLearning
- Multi-Agent System : Jade and JASON
- Semantic Web : RDF with SPARQL

Education

- 2016 **PhD Computer Science**, *Normandie University*, FRANCE.
Toward Organic Ambient Intelligence? EMMA
- 2012 **Master Research**, *UPMC*, Paris VI University, FRANCE.
Artificial Intelligence & Decisions
- 2011 **Master Engineering School**, *ECE Paris*, FRANCE.
Embedded System, Research & Development

Publications

- SWS'2017 Brian Mayton, Gershon Dublon, Spencer Russell, Evan F. Lynch, Don Derek Haddad, Vasant Ramasubramanian, Clement Duhart, Glorianna Davenport and Joseph A. Paradiso. A Ubiquitous Sensing Model for Environmental Science, Interaction Research, and Public Engagement with Restored Wetlands. *Society of Wetland Scientists (SWS17)*., 2017.
- IJWIN'2016 Clement Duhart, Pierre Sauvage and Cyrille Bertelle. A Resource Oriented Framework for Service Choreography over Wireless Sensor and Actor Networks. *In International Journal of Wireless Information Networks (IJWIN)*., 2016. DOI :10.1007/s10776-016-0316-1.
- IJASA'2015 Clement Duhart and Cyrille Bertelle. Toward Organic Computing Approach for Cybernetic Responsive Environment. *In International Journal of Ambient Systems and Applications (IJASA)*., december 2015, Volume 3, Number 4. DOI :10.5121/ijasa.2015.3401.
- ICWiSE'2014 Clement Duhart and Cyrille Bertelle. Methodology for Artificial Neural controllers on Wireless Sensor Network. *In IEEE International Conference on Wireless Sensors.*, pages 67-72, Kuala Lumpur (MA), 2014.
- SaCoNeT'2014 Clement Duhart, Michel Cotsaftis, and Cyrille Bertelle. Wireless Sensor Network Cloud services : Towards a partial delegation. *In IEEE International Conference on Smart Communications in Network Technologies.*, pages 1-6, Barcelona (ES), 2014.
- PRIMA'2013 Clement Duhart, Michel Cotsaftis, and Cyrille Bertelle. Voting Procedures by Using Network Average Consensus. *In Principles and Practice of Multi-Agent Systems. (Springer)*, pages 421–428, Dunedin (NZ), 2013.
- LISSI'2011 Clement Duhart. Approches Multi-Agents pour la Conception de Systemes de Detection, de Prevention et de Reponse aux Intrusions In *www-desir.lip6.f*, 2011.

Certifications

- 2017-X Academic Ambassador at NVIDIA Deep Learning Institute.
- 2015-X Workplace first-aid representatives.

Extra curricula

- Sports : Black Belt Karate Oshima, Marathon, France's champion of Pilotari and Alpinism.
- Juggling : Devil Stick and Staff
- Music : Saxophone
- Travelling : USA, Peru, Canada, New Zealand, China, Malaysia, Turkey and Europe
- Languages :
- French : Mother tongue
 - English : Professional