Arthur Gaudron

Center for Robotics, MINES ParisTech, PSL University

60 boulevard Saint-Michel, 75006 Paris, France

arthur.gaudron@mines-paristech.fr

www.arthurgaudron.github.io

Research interests : Data Science, Machine Learning, Operations Research, Industrial Engineering, City Logistics

Education

Ph.D. in Systems and Mathematics — **MINES ParisTech**	2020
Master Degree in Mechanical Engineering — **University of Technology of Compiègne**	2014

Academic Positions

Director of the Mastère Spécialisé Management Industriel et Systèmes Logistiques	2021 - now
Chair Holder of the Chaire Logistique Urbaine	2021 - now
Associate Professor at Center for Robotics, MINES ParisTech, PSL University	Dec. 2020 - now
Project Manager at Center for Robotics, MINES ParisTech, PSL University	Oct. 2014 – Nov 2020

Teaching

Introduction to research — MINES ParisTech *Prepartion for the redaction of a professional thesis*	2020 - now
Modeling and decision support system for city logistics — MINES ParisTech	2016 - now
Data Science — University Dauphine-PSL	2019 - 2020
AI for Business — EM Lyon	2020
Optimization and Decision Support — ESSEC	2016 - 2019

Project management

Course coordinator - ATHENS week	2020 - now
Financial Chair of the 30th IEEE Intelligent Vehicle Symposium, June 9-12 2019 in Paris, France (about 900 participants).	2019
Chaire Logistique Urbaine	2015 - now
Chaire Drive for All	2014 - now
SINETIC — Project Coordinator of a French collaborative project on large scale simulation of connected and autonomous vehicles.	2014 - 2017

Invitations and communications

- Feb. 2021 — Table ronde « Intelligence Articielles et humaines » pour la revue Enjeux numérique des Annales des Mines, 10th February
- Nov. 2021 — Atelier sur la logistique urbaine. MINES ParisTech, 10th November 2020, Paris, France
- Nov. 2020 — « Modeling a complex system with AI: opportunities & limits », University of Montevideo, 23th November

- Oct. 2020 — « L'IA dans les villes - enjeux, retours d'expérience, perspectives ». Institut Esprit Service, 29th October 2020, Paris, France
- Déc. 2019 — "Le procès du Ranking Social". Assemblée Nationale, 4th December 2019, Paris, France
- Nov. 2019 — Atelier sur la logistique urbaine. MINES ParisTech, 8th November 2019, Paris, France
- Oct. 2019 — "Collaboration in city logistics using interactive simulation". 8th METRANS International Urban Freight Conference, 17th Oct 2019, Long Beach, USA
- Oct. 2019 — "Classifying logistic vehicles in cities using Deep learning". 8th METRANS International Urban Freight Conference, 17th Oct 2019, Long Beach, USA
- Mars 2019 — "IA et Responsabilités" – Séminaire à destination des Instances Représentatives du Personnel. SECAFI, 22nd March 2019, Toulouse, France
- Mars 2019 — Finale PSL de l'édition 2019 de Ma Thèse en 180 secondes. PSL University, 7th March 2019, Paris, France
- Fév. 2019 — The Future of Digital Intelligence – Ethics, Impact and Prudence. IFIM Business School and IFIM Law School, 26th February 2019, Bangalore, India
- Fév. 2019 — Law & Regulation of AI: A Global Perspective. AD IDEM 2019 International Law Conference. IFIM Law School, 25th February 2019, Bangalore, India
- Fév.2019 — Les données, base d'apprentissage de l'intelligence artificielle. Cycle de conférences "Quelle régulation pour l'intelligence artificielle ?". Université Paris Descartes, 8th February 2018, Paris, France
- Oct. 2018 — "Le procès de l'intelligence artificielle et de la voiture autonome". Court of Appeal of Paris, 5th October 2018, Paris, France
- Oct. 2017 — Mobile multi-depot vehicle routing problem. 7th METRANS International Urban Freight Conference, Oct 2017, Long Beach, USA
- Fév. 2017 — Loading/Unloading Spaces Location And Evaluation. EURO Winter Institute on "Methods and Models in Transportation Problems", 14-23 Feb 2017, Bressanone, Italy
- Fév. 2017 — Bionumeric City — International Workshop. Cité des Sciences et de l'Industrie, 9th February 2017, Paris, France

Publications in conferences

1. Lola Péladan, Arthur Gaudron & Arnaud de La Fortelle. Pa. ATEC ITS France, Jun. 2020.
2. Arthur Gaudron, Simon Tamayo & Arnaud de La Fortelle. Interactive Simulation For Collective Decision Making In City Logistics. 11th International Conference on City Logistics, Jun 2019, Dubrovnik, Croatia
3. Simon Tamayo, François Combes & Arthur Gaudron. Unsupervised machine learning to analyse city logistics through Twitter. 11th International Conference on City Logistics, Jun 2019, Dubrovnik, Croatia
4. Raphael Benoit, Corine Gunot, Simon Tamayo, Arthur Gaudron & Frédéric Fontane. Food open-air markets in Paris: transportation environmental issues. World Conference on Transport Research, May 2019, Mumbai, India

5. Arthur Gaudron, Simon Tamayo & Arnaud de La Fortelle. Interactive Simulation To Explore Urban Distribution Schemes. 21st EURO Working Group on Transportation Meeting, Sep 2018, Braunschweig, Germany

6. Apollinaire Barme, Simon Tamayo & Arthur Gaudron. Statistic regression and open data approach for identifying economic indicators that influence e-commerce. 20th International Conference on Urban Transportation and City Logistics, May 2018, London, United Kingdom

7. Arthur Gaudron, Simon Tamayo & Arnaud de La Fortelle. Simulation de l'utilisation des aires de livraisons en ville par la méthode de Monte-Carlo. ATEC - Les rencontres de la mobilité intelligente 2018, Jan 2018, Paris, France

8. Sarra Jlassi, Simon Tamayo, Arthur Gaudron & Arnaud de La Fortelle. Simulating impacts of regulatory policies on urban freight: application to the catering setting. 6th International Conference on Advanced Logistics and Transport, IEEE, Jul 2017, Bali, Indonesia

9. Simon Tamayo, Arthur Gaudron & Arnaud de La Fortelle. Loading/unloading spaces location and evaluation: an approach through real data. 10th International Conference on City Logistics, Institute for City Logistics, Jun 2017, Phuket, Thailand

10. Sarra Jlassi, Simon Tamayo & Arthur Gaudron. Simulation applied to urban logistics: a state of the art. 10th International Conference on City Logistics, Institute for City Logistics, Jun 2017, Phuket, Thailand

Other publications

1. Françoise Barbier-Chassaing, Élise Berlinski, Alexandre Ganachaud, Arthur Gaudron & Lorraine Paquin. Le procès du ranking social - Conclusions pour M Vigi. Dalloz IP/IT, Dalloz, 2020

2. Arthur Gaudron. Trial of an AI: Empowering people to explore law and science challenges. IFIM's International Journal on Law & Regulation of Artificial Intelligence & Robotics, 2019

3. Françoise Barbier-Chassaing, Jean-Baptiste Crabières & Arthur Gaudron. Le procès de l'intelligence artificielle et de la voiture autonome — Conclusions aux fins de relaxe. Dalloz IP/IT, Dalloz, 2018