



INDUCTION WEEK 2017

4 -9 September



*Machine Learning
&
Data Mining*

Contact Information:

Academic Coordinators:

Marc SEBBAN & Amaury HABRARD (master.MLDM@univ-st-etienne.fr)

Administrative Officer:

Amélie GENVRIN (amelie.genvrin@univ-st-etienne.fr)

Emergency hotline: +33 477 915 730 (available from August 28th to September 3rd 2017)

Arrival in Saint-Etienne:

All students are required to arrive on **September 3rd 2017 at the latest.**

Monday 4th of September:

Location: Campus Manufacture, 18 rue du Professeur Benoît Lauras, 42000 Saint-Etienne (tram station: Cité du Design)



9:00 – 11:30: [Room D03] Visit of the Manufacture Campus, Groups photos, General Introduction of University Jean Monnet (UJM) and the Faculty of Science and Technologies (FST)

11:30 – 12:00: [Room D03] Introduction of the services offered by the Town Hall

12:00 – 13:00: Lunch (offered)

13:00 – 13:30: [Room D03] Introduction of Faculty of Sciences and Technologies (FST) & UJM Intranet (ENT)

13:30 – 13:45: [Room D03] Brief presentation of Research Activities at Laboratoire Hubert Curien

13:45 – 15:00: [Room D03] Introduction to administrative processes and scholarship programmes – signatures of student learning agreements – Amélie Genvrin (MLDM administrative officer)

15:00 – 17:00: [Room D03] Introduction of Master MLDM by Marc Sebban and Amaury Habrard (Academic Coordinators)

Tuesday 5th of September: Industrial Session 1

Location: Campus Manufacture, 18 rue Benoit Lauras, 42000 Saint-Etienne (tram station: Cité du Design)

9:00 – 10:00: [Room J020] “Computer vision and machine learning at Naver Labs Europe”. NAVER LABS is an ambient intelligence company that develops future technologies including autonomous driving, robotics and artificial intelligence. Since its establishment as NAVER’s R&D division in 2013, it has led NAVER’s innovation in technology through products such as “Papago”, AI-based translation app, Whale, the omni-tasking web browser, and M1, the 3D indoor mapping robot. The primary areas of research at NAVER LABS Europe are computer vision, natural language processing and machine learning. In this talk, I will present some concrete applications of the research conducted in the computer vision group and in the rest of the lab. **Presentation by Diane Larlus.**

10:00 – 11:00: [Room J020] “Fraud detection at Worldline”. Worldline is the European leader and a world reference in the payment and transactional services industry. In 2014, fraudulent card transactions worldwide have reached around \$11 billion for one year. Worldline being a major actor in the payment services, tackling the fraud problem has become a high-stake issue. This talk will describe how Worldline provides its expertise in data analytics to a large range of customers, from Business Intelligence to Data science. I will present "Worldline Analytics Platform", our Cloud-oriented data platform which frees users from the technical hassles of deploying a datadriven application. We will then focus on R&D's work on building a smart Data Analytics solution for fraud detection, and deploying it on Worldline Analytics Platform. **Presentation by Fanilo Andrianasolo.**

11:00 – 12:00: [Room J020] “Large Scale Machine Learning for Display Advertising at Criteo”. At Criteo, a tech company specialized in targeted online advertising, machine learning lies at the core of the business. It is used to decide when to show an ad, how to personalize brands and products to be shown in the banners, etc. We will discuss the main concepts of display advertising such as real-time bidding, product recommendation, online and offline model evaluation. ML applications at Criteo are all facing very strong industrial constraints: prediction latency, very large scale in terms of both samples and dimensions (we process 3B requests per day). We will also discuss the impact on the choice of the models we use and on the infrastructures. Finally, we will cover the next scientific challenges we face and provide links to open datasets released by Criteo. **Presentation by Eustache Diemert.**

12:00 – 14:00: Lunch offered

Afternoon: Free time

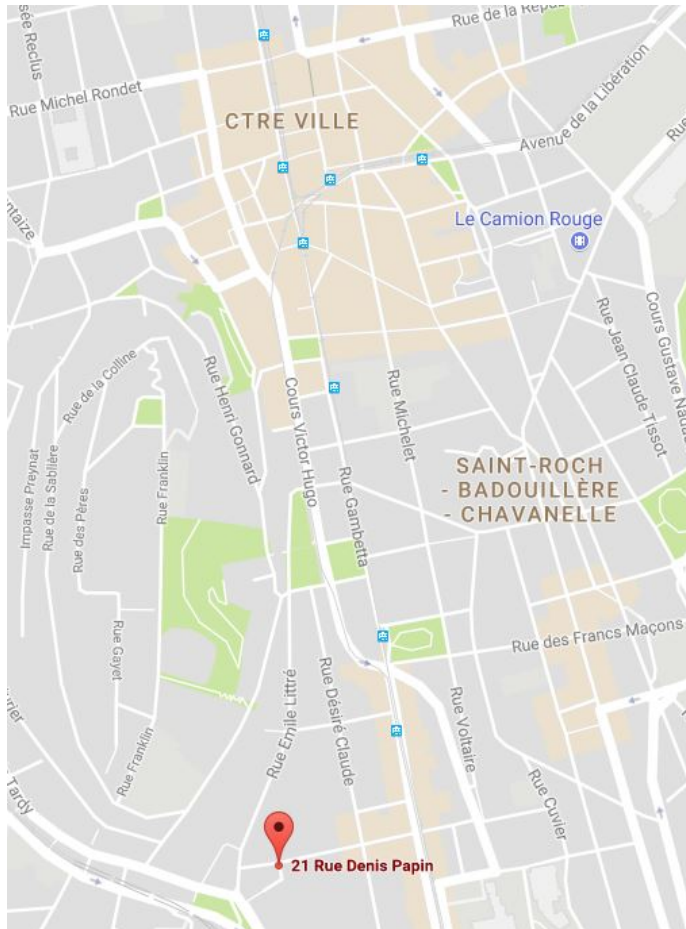


Evening (18:30): Cocktail at the Town Hall



Wednesday 6th of September

Location: International Office, 21 rue Denis Papin, 42000 Saint-Etienne (tram station : Anatole France)



9:00 – 12:00: Meeting at International Relations Office (Administrative information by Isabelle Levai-Daudel, UJM International Relations officer)

Afternoon: Free time

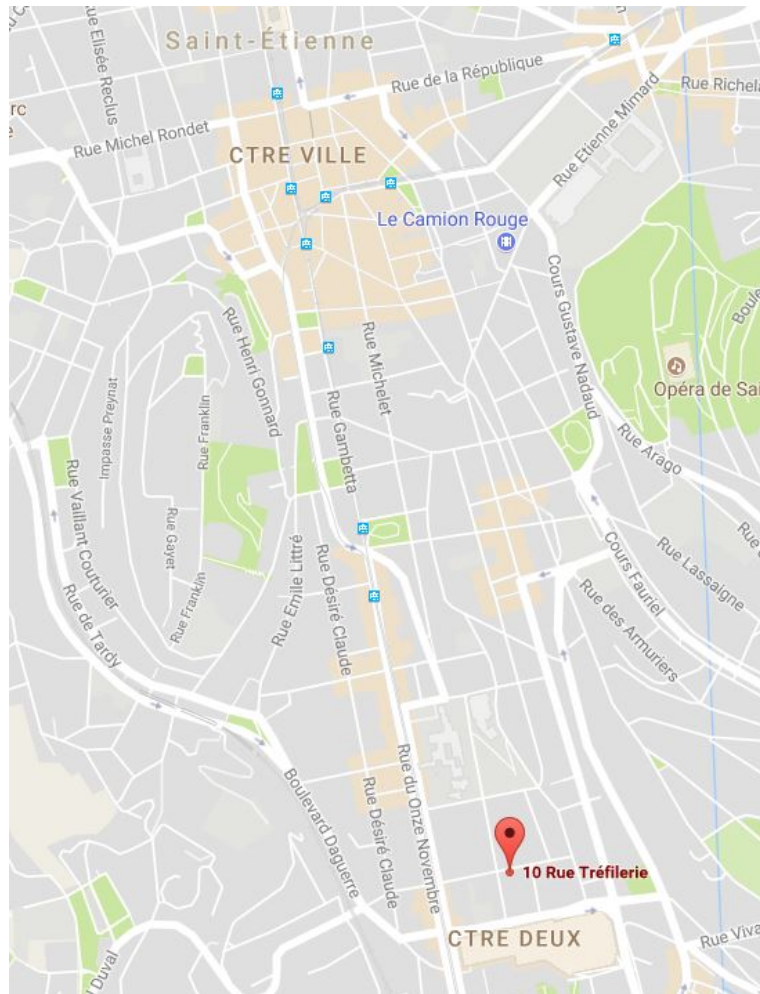


Thursday 7th of September

9:00 – 10:30: [Room D03] Presentation of research activities in Machine Learning and Data Mining at Hubert Curien Laboratory

10:30 – 12:00: [Room D03] scientific talks from former MLDM1 students followed by a question and answer session

13:00 – 15:30: Registration of MLDM students at MDU



Friday 8th of September: Industrial Session 2

Location : Campus Manufacture, 18 rue Benoit Lauras, 42000 Saint-Etienne (tram station: Cité du Design)

8:00 – 8:45: [Room J020] “Introduction to HP Thermal Inkjet Writing Systems development” by **HP Inc - Spain**

8:45 – 9:30: [Room J020] “Colour Science and augmented reality for beauty personalization” by **L’Oréal - France**

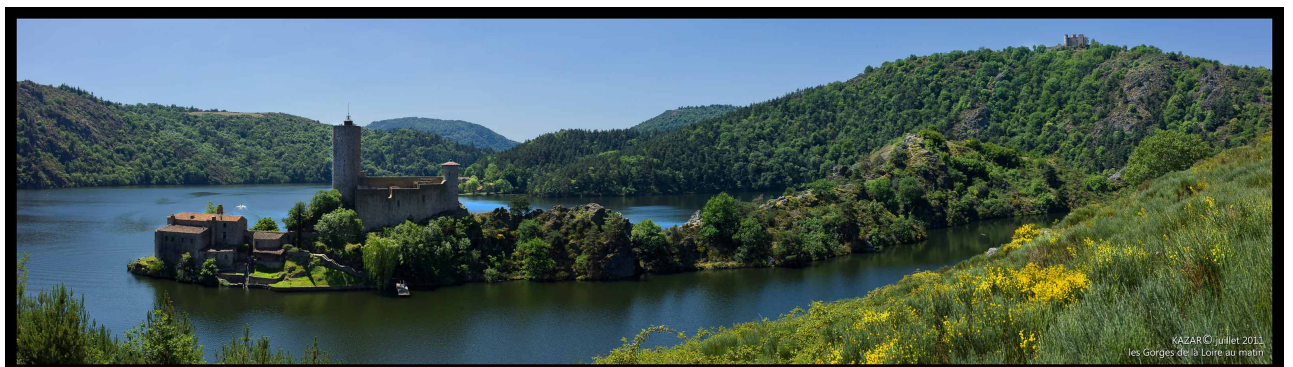
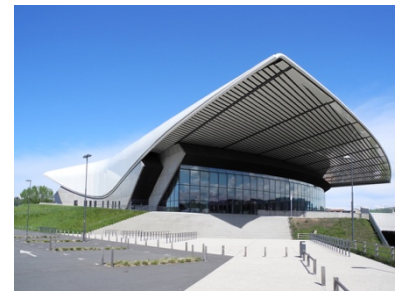
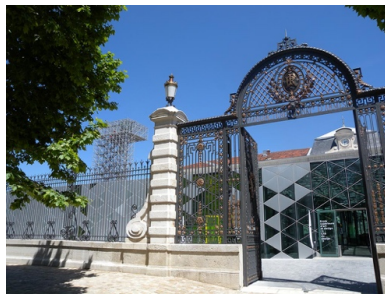
9:30 – 10:15: [Room J020] “Activities of R&D Imaging Technology Department and Internship Program in Olympus” by **Olympus - Japan**

10:15 – 10:45: [Room J020] Coffee break – Discussions with Industrials

10:45 – 11:30: [Room J020] “Absolute color calibration vs CSFD (Color Standard Display Function)” by **Barco - Belgium**

11:30 – 12:15: [Room J020] “From research to visual effects and post-production at Technicolor” by **Technicolor - France**

Afternoon: Free time



Saturday 9th of September: Foot Orienteering in the Pilat Regional Park (social program with other International students enrolled in other master programs at the FST)

Lunch & Transportation offered

Wear trainers, warm, waterproof and comfortable clothing

Please note that this activity may be cancelled depending on the weather.

