



CentraleSupélec

SUMMER SCHOOL

Artificial Intelligence



1 - 14 July 2019

CentraleSupélec, Gif-sur-Yvette, Fra

CentraleSupélec's summer school programme offers you a unique opportunity to discover a brand-new campus in a strategic area close to Paris & to gain cutting-edge knowledge on the latest technological innovations. Join us for our Summer programme, make new friends, work together with peers from all over the world, and get a taste of CentraleSupélec's academic excellence!

In collaboration with



Broaden your knowledge in the field of Artificial Intelligence and participate in the debate on how AI technologies are changing our day-to-day lives.

CentraleSupélec's Artificial Intelligence Summer School, now at its second edition, enables students to broaden their knowledge in fields such as Machine Learning, Deep and Reinforcement Learning, Computer Vision and Learning in Networks. Throughout the programme students will participate in a team-based competition on the topics addressed by the school.

Organizer & Instructors



Fragkiskos Malliaros is Assistant Professor at CentraleSupélec, University of Paris-Saclay, where he works in the Center for Visual Computing. His research interests span the broad area of data science, with focus on graph mining, social network analysis, applied machine learning and natural language processing. Before joining CentraleSupélec, he spent a year as a data science postdoctoral fellow in the Department of Computer Science and Engineering at UC San Diego, where he was a member of the Artificial Intelligence group. He earned his PhD at the École Polytechnique in Paris.

Ismail Ben Ayed, *ETS Montréal*

Richard Combes, *CentraleSupélec*

Céline Hudelot, *CentraleSupélec*

Pablo Piantanida, *CentraleSupélec*

Edouard Oyallon, *CentraleSupélec*

Anna Shillabeer, *Flinders University*

Hugues Talbot, *CentraleSupélec*

Maria Vakalopoulou, *CentraleSupélec*

Summer School programme

For more information on the programme: <https://www.summerschoolcentralesupelec.fr/about/artificial-intelligence/>

Mon July 1, 2019	Tue July 2, 2019	Wed July 3, 2019	Thu July 4, 2019	Fri July 5, 2019
9:30 am - 12:00 pm Introduction to Artificial Intelligence <i>Céline Hudelot</i>	9:30 am - 12:00 pm Introduction to Machine Learning <i>Richard Combes</i>	9:30 am - 11:30 am Introduction to Deep Learning <i>Pablo Piantanida</i>	9:30 am - 12:00 pm Introduction to Deep Learning <i>Pablo Piantanida</i>	9:30 am - 12:00 pm Introduction to Reinforcement Learning <i>Edouard Oyallon</i>
1:30 pm - 4:30 pm Introduction to Artificial Intelligence <i>Céline Hudelot</i>	1:30 pm - 4:30 pm Introduction to Machine Learning <i>Richard Combes</i>	2:00 pm - 6:00 pm Visit of the BCG Innovation Center for Operations	1:30 pm - 4:30 pm Artificial Intelligence System Architecture & building block <i>Anna Shillabeer</i>	1:30 pm - 4:30 pm Introduction to Reinforcement Learning <i>Edouard Oyallon</i>

Mon July 8, 2019	Tue July 9, 2019	Wed July 10, 2019	Thu July 11, 2019	Fri July 12, 2019
9:30 am - 12:00 pm Learning in Networks <i>Fragkiskos Malliaros</i>	9:30 am - 12:00 pm Introduction to Computer Vision <i>Hugues Talbot</i>	9:30 am - 12:00 pm Introduction to Computer Vision <i>Maria Vakalopoulou</i>	9:30 am - 12:00 pm Constrained Deep Networks for Weakly Supervised Learning Guest Lecture <i>Ismail Ben Ayed</i>	9:30 am - 12:00 pm Challenge
1:30 pm - 4:00 pm Learning in Networks <i>Fragkiskos Malliaros</i>	1:30 pm - 4:30 pm Introduction to Computer Vision <i>Hugues Talbot</i>	1:30 pm - 4:30 pm Cultural Acitivity	1:30 pm - 4:00 pm Roundtable	1:30 pm - 4:30 pm Farewell Cocktail

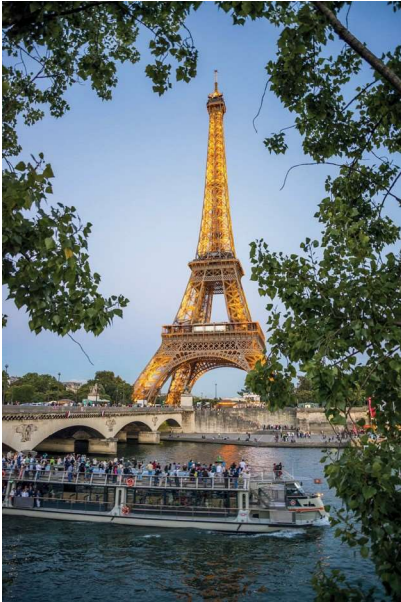
Summer School special activity



Visit to the BCG Innovation Centre for Operations: ICO is a model factory that aims to accelerate digital transformation in leading companies across a wide range of industries.

During the visit, students will be able to experiment with cutting-edge technological tools such as advanced robotics, data analytics, 3D printing, augmented reality, the industrial Internet, and a simulation platform.

Additional activities



In addition to attending classes and lectures, participants will get the chance to tour Paris with a professional guide and see some of its most renowned tourist spots. They will also visit research and industrial facilities located in the fast-growing Paris-Saclay industrial and technological cluster, dubbed the “French Silicon Valley”.

Cultural Programme: The cultural programme includes: guided visits of the Musée des Arts et Métiers & of the Musée de l’Orangerie, a walking tour in downtown Paris, and a cruise on the Seine, in Paris’s famous Bateaux mouches.



Practical Information

For more information on the programme: <https://www.summerschoolcentralesupelec.fr/about/artificial-intelligence/>

For more information on tuition fees and accommodation:

<https://www.summerschoolcentralesupelec.fr/about/practical-information-campus-life/>

For the registration form: <https://www.summerschoolcentralesupelec.fr/registration/>

Eligibility: 3rd or 4th year Bachelor’s programme, 1st year Master’s programme in Engineering or Science.

Skills in Python and programming are required for the programme and if you are not familiar with Python, you will need to learn the basics prior to the start of the Summer School. In order to prove their level in Python, students will be asked to provide in the registration section a project previously completed demonstrating their programming skills.

Tuition Fees: €1,800 (Fees include: courses & activities; accommodation; two-week pass for public transportation)

Deadline: 27 May 2019

Accommodation

Student residence Campuséa Paris Palaiseau
Address: 26-28 route de Saclay – 91120 Palaiseau
Participants will live in a modern student residence located in a new eco-neighborhood Camille Claudel, in the heart of a student area – 40 minutes from Paris.

Included facilities:

Wi-fi

Linen kit (bed sheets, towels, etc.)

Kitchen kit (plates, cutlery, pan, etc.)

Access to fitness, lounge hall, etc.



<https://www.campusea.fr/fr/residence-etudiante-paris-palaiseau/residence-etudiante>

CentraleSupélec and Paris Saclay

CentraleSupélec is one of the most prestigious French engineering schools. Its excellence lies in its mix of fundamental and applied sciences and in the importance attached to innovation.

CentraleSupélec is one of the driving forces behind the Université Paris-Saclay project. The project, launched in 2015, aims at creating a research-intensive academic campus and business cluster on the Saclay Plateau, 25 km south of Paris. On our campus, students will find all sport & leisure facilities.

You can reach the Paris-Saclay campus by taking the following buses from three RER B stations (Massy-Palaiseau, Lozère and Le Guichet): 91.06B, 91.06C and 9, get off at the stop called “Moulon”.



Contact: summerschool@centralesupelec.fr