

*Programme*

**C@MI**

**Course @ LIA NextRIM  
for Mobility and Infrastructure**

***International PhD Course***

***24/27 June 2024***

***Marne la Vallee, Paris***





24/27 June 2024, Marne la Vallée, Paris

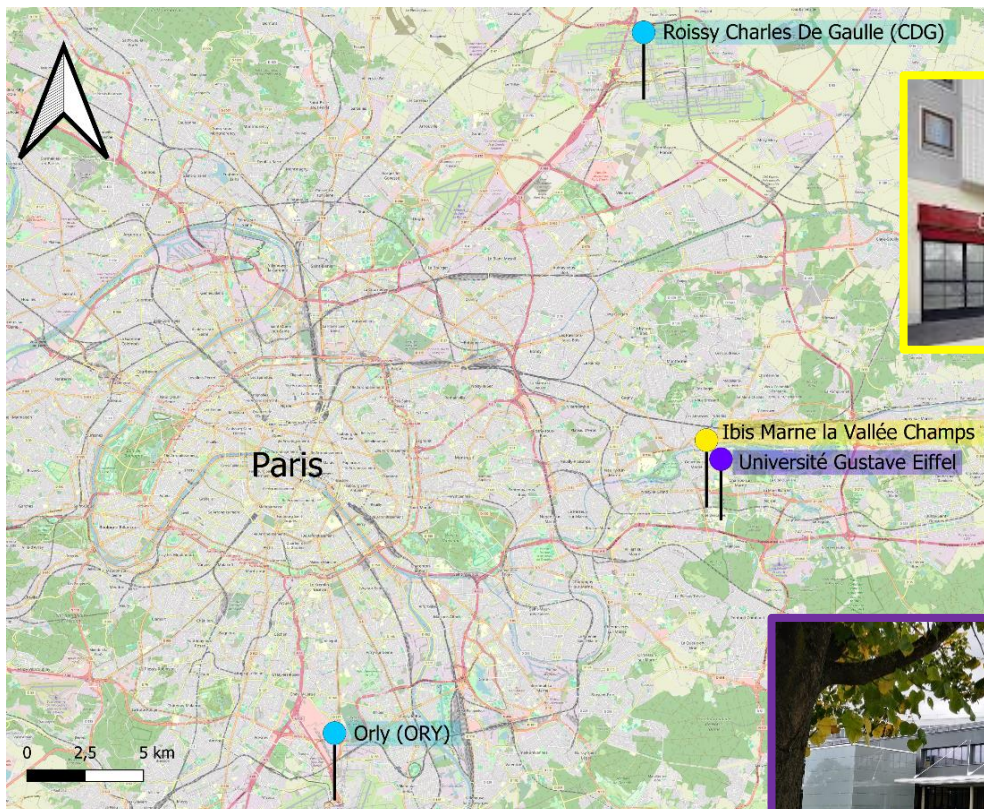


## INTRODUCTION

C@MI (Course @ LIA NextRIM for Mobility and Infrastructure) is an international summer school co-organized by PICS-L, Cosys Département (Dott. Hocine Imine) in collaboration with DICAM department of University of Bologna - Alma Mater Studiorum (Prof. Andrea Simone, Prof. Claudio Lantieri) within framework of NextRIMInternational Associated Laboratory (LIA <https://nextrim.univ-gustave-eiffel.fr/>), related to Road Infrastructure and Mobility. The event, sponsored by the SIIV, is an International Course open to PhD students and will take place in the campus of Université Gustave Eiffel, Marne-la-Vallée, in the Île-de-France region, in the period from 24 to 27 June 2024.

The summer school consists in 4-days intensive course for PhD students. The themes addressed regard the activities performed under both the European project CLEARDOC (<https://clear-doc.univ-gustave-eiffel.fr/>) and the MOST PNRR Spoke 7 of the National Centre for Sustainable Mobility (<https://www.centronazionalemost.it/>). Lecturers are invited to update participants on research developments in the fields of road safety, road asset management, traffic, and sustainable mobility with a particular focus on the human factor and new driving support technologies. In particular, the course is divided into 4 days, with seminars on the following topics: 1) "Infrastructure Management"; 2) "Safety and Transport"; 3) "Human behaviour in transportation". Last, a final session called "FORUM @lianextrim" will take place, in which the PhD students can illustrate their research.

## VENUE AND ACCOMODATION



*Ibis Marne la Vallée  
Champs - 8 Boulevard  
Newton, Cite  
Descartes, 77420  
CHAMPS SUR MARNE,  
Francia*



*Université Gustave Eiffel, 14-20 Boulevard  
Newton, Champs-sur-Marne, 77447  
Marne-la-Vallée cedex 2*





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## AGENDA

### Monday, June 24<sup>th</sup> 2024

**10.00-11.00: Registration, Welcome Break**

**11.00-11.10: Opening Ceremony**

S. Piperno, Vice-President Research, Université Gustave Eiffel

**11.10-11.30: Introduction**

H. Imine and A. Simone, coordinators of LIA NextRIM

**11.30-13.00: Keynote**

S. Mammari, Université d'Evry Paris-Saclay

Title: *Observer and controler methods for vehicles and traffic*

**13.00-14.30: Lunch**

**14.30-15.45: Lecture**

G. Bifulco, Università di Napoli Federico II

**15.45-17.00: Lecture**

D. Chiola, Movyon

Title: *New approaches in the development of integrated asset management platforms*

**Optional dinner:** Restaurant L'Escale Du Village

Address: 1 Rue du Village 77 185 LOGNES





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Tuesday, 25<sup>th</sup> June 2024

**Module 1: INFRASTRUCTURE MANAGEMENT**

*Chairman: A. Simone*

**9.15-10.30: Lecture**

*C. Lantieri*, Università di Bologna

Title: *Road Safety analysis by innovative driver monitoring technologies*

**10.30-11.00: Break**

**11.00-12.30: Lecture**

*A. Lhostis*, Université Gustave Eiffel

Title: *Transport and urban development, recent advances in Transit Oriented Development (TOD) experiences and research*

**12.30-13.30: Lunch**

**13.30-15.00: Lecture**

*F. Canestrari*, Università Politecnica delle Marche

Title: *Sustainable solutions for pavement management*

**15.00-16.00: Lecture**

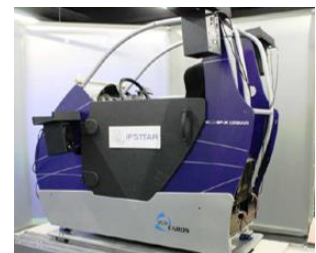
*N. Farhi*, Université Gustave Eiffel

Title: *Traffic Modeling and Control for Mass Transit Systems*

**16.00:18.00: Technical visit**

**The PICS-L** (Lab on Perceptions, Interactions, Behaviours & Simulations of road and street users): conducts pluridisciplinary research to observe, understand, improve and evaluate the mobility of individual road and street users.

**SENSE - CITY:** “climate mini-city”, is a vast reconfigurable mobile hall of 400m<sup>2</sup> capable of hosting, under controlled environmental conditions, realistic urban scenarios.



**Optional dinner:** Restaurant La Grange

Address: Disney Village, 2 Av. Paul Séramy, 77700 Chessy

<https://www.disneylandparis.com/fr-fr/restaurants/disney-village/la-grange-a-billy-bobs-country-western-saloon/>





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Wednesday, 26<sup>th</sup> June 2024

Module 2: **SAFETY AND TRANSPORT**

Chairman: H. Imine

**9.00-10.30: Keynote**

M. Basset, Université de Mulhouse

**10.30-11.00: Break**

**11.00-12.30: Lecture**

D. Gruyer, Université Gustave Eiffel

Title: *Perception of the environment, a key issue for the CAV deployment. From data management and processing to the multi-sensor data fusion*

**12.30-13.30: Lunch**

**13.30-15.00: Lecture**

B. Barabino, Università di Brescia

Title: *Bus crash risks in Public Transport: Theoretical issues and applications in a real network*

**15.00-16.30: Lecture**

V. Ranieri, Politecnico di Bari

Title: *Metropolitan and urban areas: road infrastructures intervention strategies*

**16.30-17.00: Break**

**17.00-18.00: Lecture**

F. De Crescenzo, Università di Bologna

Title: *XR Technologies for Human Centred Design in Transportation*

**Optional dinner:** Restaurant LE RELAIS DU BUISSON

Address: Allée de la Ferme – 77186 NOISIEL

<https://www.lerelaisdubuisson.fr/>





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Thursday, 27<sup>th</sup> June 2024

Module 3: **HUMAN BEHAVIOUR IN TRANSPORTATION**

Chairman: V. Vignali

**9.00-10.30: Lecture**

M.N. Postorino, Università di Bologna

Title: *Modelling traditional and advanced Transportation Systems*

**10.30-11.00: Break**

**11.00-12.30: Lecture**

R. Bremond, Université Gustave Eiffel

Title: *The role of human vision in transportation: problems and theories*

**12.30-14: Lunch**

**FORUM @LIA-NEXTRIM**

**14.00-16.00: Forum**

The **FORUM@LIA-NEXTRIM** is an occasion for idea sharing and comparison, in which PhD candidates and young researchers present specific and interesting topics in the fields of the infrastructure and transport sciences. FORUM@LIA participants must attend the School. The Scientific Committee of the FORUM@LIA will award **3 prizes** based on the following criteria: best **technological impact**, best **innovative idea**, best **experimental activity**.

SCIENTIFIC COMMITTEE

**DOMINIQUE Gruyer**

-Research Director

**SIMONE Andrea**

-Full Professor, Co-head

**FARHI Nadir**

-Researcher, Topic co-leader

**LANTIERI Claudio**

-Associate Professor, Topic Co-leader

**BREMOND Roland**

-Research Director

**VIGNALI Valeria**

-Associate Professor

**BELAROSSI Rachid**

-Researcher, Topic co-leader

**DE CRESCENZIO Francesca**

-Associate Professor

**IMINE Hocine**

-Research Director, Co-head

**POSTORINO Maria Nadia**

-Full Professor, Topic Co-leader





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## PARTNERS

**LIA  
NextRIM**

*LIA NEXT-RIM is an interactive laboratory for sustainable mobility and infrastructures of the future. The new structure was born from an agreement between the University of Bologna and the Université Gustave Eiffel.*

**CLEAR  
DOC**

*CLEAR-Doc aims at attracting, at Université Gustave Eiffel, 30 promising PhD from all around the world in the field of the "City of tomorrow" in order to improve their research capacity and soft skills through high quality and fair selection and supervision.*

**MOST**  
CENTRO NAZIONALE PER LA MOBILITÀ SOSTENIBILE

*MOST – Sustainable Mobility National Research Center and received funding from the European Union Next-GenerationEU. Under the auspices of Spoke 7 (CN 0000023–PNRR–M4C2 INV. 1.4).*

**SIIV**  
Società Italiana Infrastrutture Viarie

*The SIIV Italian Society of Road Infrastructures, represents the academic world of (SSD) ICAR/04 for the diffusion of culture and scientific knowledge in the field of road infrastructures.*

**AIIT**

*AIIT «Italian Association for Traffic and Transport Engineering» is a point of reference between experts in mobility, traffic and transport topics.*

## ORGANIZING COMMITTEE AND CONTACTS

Université Gustave Eiffel:  
H. Imine, M.L. Poiret, M. Patte, A. Cadot

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University of Bologna, DICAM:  
A. Simone, C. Lantieri, V. Vignali,  
M. Pazzini, S. Palese

Prof. Claudio Lantieri: 00390512093523

E-Mail: [claudio.lantieri2@unibo.it](mailto:claudio.lantieri2@unibo.it)

NextRIM

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