

Technical Program of the Nets4Workshop 2020 Conference

1st Day: 16/11/2020

09:30 **Welcome Speech**

09:45-12:45 **Nets4Cars 1** – *Session chair: Hasnaâ Aniss*

Research Engineer at University Gustave Eiffel (COSYS/ERENA), Bordeaux, France

09:45 **Keynote** – Léo Mendiboure – « The Blockchain: a decentralized solution for security and privacy protection in vehicular networks »

10:30 Simulation of Cyberattacks in ITS-G5 Systems - *Jean Cassou-Mounat et al.*

11:00 Coffee Break

11:15 Towards an Extensible Security Monitoring Architecture for Vehicular Networks - *Amir Teshome Wonjiga et al.*

11:45 Anomaly Detection On Roads Using C-ITS Messages - *Juliet Chebet Moso et al.*

12:15 Leveraging GPS data for vehicle maneuver detection - *Aymen Abdallah et al.*

12:45 **Lunch Break**

14:00-17:00 **Nets4Train** – *Session chair: Marion Berbineau*

Research Director at University Gustave Eiffel (COSYS/LEOST), Lille, France

14:00 **Keynote** - Divitha Seetharamdoo - « Integration of Antennas for communication systems in complex platforms »

14:45 5G for remote driving of trains - *Yamen Alsaba & al.*

15:15 Sensing the Health of the Catenary-Pantograph Contact on Railway Vehicles with Radio Receivers: Early Results - *Juan Moreno & al.*

15:45 Coffee Break

16 :00 Freight Telematics Systems: An Intelligent Wagon - *Roberto C. Ramírez et al.*

16 :30 NEWNECTAR: a New generation of adaptable Wireless sensor Network for way side objeCTs in rAilway enviRonments - *Dereje Mechal Molla & al.*

17:00 **Closure of the first Day**

2nd Day: 17/11/2020

9:30-12:45 Nets4Cars 2 – *Session chair:* Francine Krief
Professor at Bordeaux INP, Bordeaux, France

9:30 Analysis and Comparison of IEEE 802.11p and IEEE 802.11bd - *Badreddine Yacine Yacheur et al.*

10:00 An investigation of the bits corruption in the IEEE 802.11p - *Sébastien Bindel et al.*

10:30 Measurements of communication channel in different scenarios with the Channel Characterization Tool system - *Nerea Fernández Berrueta et al.*

11h00 Coffee Break

11:15 Survey on decision-making algorithms for network selection in heterogeneous architectures – *Ali Mamadou Mamadou et al.*

11:45 Radio access technologies selection in vehicular networks: state of the art and perspectives for autonomous connected vehicles - *Sidoine Juicielle Kambiré et al.*

12:15 Toward the integration of V2V based clusters in a global infrastructure network for vehicles – *Sabrine Belmekki et al.*

12:45 **Lunch Break**

14:00-17:00 Nets4Aircraft – *Session chair:* A. Rimokh
Executive Manager Unmanned Systems, Urban Air Mobility and UTM, Aerospace Valley, France

14:00 **Keynote** – Dr. Grégoire Danoy – « UAV swarms: From theoretical mobility models to proof of Concept »

14:45 Allowing People to Communication after a Disaster using FANETs - *Frédéric Guinand et al.*

15:15 Remote ID and Vehicle-to-Vehicle Communications for Unmanned Aircraft System Traffic Management – *Ethan Murrel et al.*

15:45 Coffee Break

16:30 A Unified Smart Mobility System Integrating Terrestrial, Aerial and Marine Intelligent Vehicles - *Chahrazed Ksouri et al.*

17:00 **Best Paper Award, Nets4Workshop 2020, Closure**