

Lot9

R9.2 - Rapport final sur les publications



Programme	FUI23
Référence	R9.2
Version	0.1
Date	31 / 01 / 2021
Porteur	UPPA
Auteur(s)	UPPA
Contributeurs(s)	ALL



GROUPE RENAULT

Financé par



Pôles de labellisation



Authors

Name	Entity	Email
Ernesto Exposito	UPPA	Ernesto.exposito@univ-pau.fr

Document History

Version	Update Date	Subject Changes	Author
0.1		Initial draft	E. Exposito
0.2		Final	E. Exposito

Table of Contents

1 1

2 1

1 Introduction

This report includes the scientific production created during the Tornado project, mainly journals and articles in international conferences. The production includes the period from 2018 to 2020.

2 International Journals and Conferences

2020

- **Rihab Khemiri, Ernesto Expósito, Fuzzy multi-objective optimization for Ride-sharing Autonomous Mobility-on-Demand Systems, 15th International Conference on Software and Data Technologies (ICSOFT), Jul 2020, Paris, France. <hal-02614070>**
- **Mohamed Naija, Rihab Khemiri, Ernesto Expósito, Failsafe Mechanism to Hazard Analysis and Risk mitigation in Unmanned Aerial Vehicle based on NCES, 15th International Conference on Software Technologies (ICSOFT), Jul 2020, Paris, France. <hal-02613976>**
- **Mohamed Naija, Rihab Khemiri, Ernesto Expósito, Combining Semi-Formal and Formal Methods for Safety Control in Autonomous Mobility-on-Demand Systems, 15th International Conference on Evaluation of Novel Approaches to Software Engineering (ENASE), May 2020, Prague, Czech Republic. <hal-02614008>**
- **J.A. Guerrero, R. Chapuis, R. Aufrère, L. Malaterre, F. Marmoiton, Road Curb Detection using Traversable Ground Segmentation: Application to Autonomous Shuttle Vehicle Navigation. ICARCV 2020.**
- **Stefano Masi, Philippe Xu, Philippe Bonnifait. A Curvilinear Decision Method for Two-lane Roundabout Crossing and its Validation under Realistic Traffic Flow. *Intelligent Vehicles Symposium*, Oct 2020, Las Vegas, United States. [\(hal-02947184\)](#)**
- **Edoardo Bernardi, Stefano Masi, Philippe Xu, Philippe Bonnifait. High Integrity Lane-level Occupancy Estimation of Road Obstacles Through LiDAR and HD Map Data Fusion. *Intelligent Vehicles Symposium*, Oct 2020, Las Vegas, United States. [\(hal-02947187\)](#)**
- **Stefano Masi, Philippe Xu, Philippe Bonnifait. Roundabout Crossing with Interval Occupancy and Virtual Instances of Road Users. *IEEE Transactions on Intelligent Transportation Systems*, IEEE, 2020. [\(hal-03110633\)](#)**
- **Laurent Delobel, Thierry Chateau, Eric Royer, Francois Marmoiton. Reconstruction Planaire de Zone Carrossable de Route. *RFIA*, Juin 2020, Vannes, France.**

- V Milanes, F Navas, D Gonzalez, I Mahtout, On the Passenger Acceptance of Driverless Shuttles, 2020 IEEE Intelligent Transportation Systems Magazine
- D González, F Navas, I Mahtout, V Milanés, A first approach for a passenger-centered behavior on driverless vehicles, 2020 28th Mediterranean Conference on Control and Automation (MED), 182-187
- J Beltrán, C Guindel, I Cortés, A Barrera, A Astudillo, J Urdiales, M Álvarez, Towards Autonomous Driving: a Multi-Modal 360° Perception Proposal, 2020 IEEE 23rd International Conference on Intelligent Transportation Systems Conference
- Rabbia Asghar, Mario Garzón, Jerome Lussereau, Christian Laugier, Vehicle Localization Based on Visual Lane Marking and Topological Map Matching, 2020 IEEE International Conference on Robotics and Automation (ICRA), Paris, France. <hal-03043594>
- V. Milanes et al., TORNADO project: An automated driving demonstration in peri-urban and rural areas, Journal: IEEE Intelligent Transportation Systems Magazine.

2019

- Matthieu Carre, Ernesto Expósito, Javier Ibañez-Guzman, Methodology And Architecture For Safety Management, *9th International Conference on Computer Science, Engineering and Applications (ICCSEA 2019)*, Dec 2019, Dubai, United Arab Emirates. (10.5121/csit.2019.91801)
- Matthieu Carre, Ernesto Expósito, Javier Ibañez-Guzman, Framework for Safety in Autonomous Vehicles, *Conférence Francophone sur les Architectures Logicielles (CAL 2019)*, Oct 2019, Hammamet, Tunisia
- Jean-Philippe Tarel, Two images comparison with invariance to illumination properties. IEEE International Conference on Image Processing (ICIP 2019), Sept 2019, Taipei, Taiwan, pp. 2696-2700.

2018

- Matthieu Carré, Ernesto Exposito, Javier Ibañez-Guzmán, Challenges for the Self-Safety in Autonomous Vehicles, 13th Annual Conference on System of Systems Engineering (SoSE 2018), Paris, June 19-22, 2018, 181-188
- Stefano Masi, Philippe Xu, Philippe Bonnifait. Adapting the Virtual Platooning Concept to Roundabout Crossing. *IEEE Intelligent Vehicles Symposium (IV 2018)*, Jun 2018, Changshu, China. pp.1366-1372, [\(10.1109/IVS.2018.8500611\)](#). [\(hal-02080001\)](#)

