*Reunio Vicenç 13/12/2022 --------- Div 23 a les 9*

* *Estat actual de la teoría*
  + *Estic una mica encallat amb la part del algoritme del free space, vaig donarli algunes voltes i no se´m va ocurrir alternatives massa viables*
  + *Tambe mirare una mica papers respecte al LPV per veure si per aquesta línea podema avançar una mica mes*
* *Estat actual practica*
  + *He avançat amb la programacio d’un entorn simplificat de ROS per a poder fer les primeres proves*
  + *He estat testejant una mica mes CARLA, al meu ordenador no em funciona massa be i des de la universitat em van facilitar un entorn remot pero no esta dissenyat per aquest tipus de programes i estem miran de fer-ho funcionar*
* *Estat actual papeleo*
  + *Des de la Uni m´han donat el vist i blau, quins papers he de fer per part de la UPC? -> Necesito un document que m’autoritzi a fer la estada.*

*Advanced Supervision, Maintenance, and Optimization for Intelligent Transportation Systems*

*Global demand for intelligent transportation systems (ITSs) has been increasing steadily over the past decades. In the practical applications, traffic congestion control, road safety, efficient infrastructure usage, fault diagnosis, health management, etc., are essential issues that have catalyzed the development of advanced techniques like supervision, maintenance, and optimization (SMO) for ITSs. One of the challenges for SMO techniques lies in the diversity of data from ITSs. These multisource data are complementary and multifaceted, providing comprehensive descriptions of the ITSs. In addition, since ITSs are generally time-varying, complex, nonlinear, and overdetermined, the well-established SMO techniques may be inefficient. Furthermore, the models and systems of ITSs may also change with additional factors such as operational environment, external uncertainties, and self-operation conditions. It necessitates a comprehensive model, for instance, by fusing expert knowledge and using vision information. So far, there is still a considerable gap between the data being collected and its applications to SMO for ITSs. This special issue intends to collect the advanced and updated designs of SMO methods from both academia and industry, as well as their application to ITSs. Topics of interest to this special issue include, but are not limited to:*

*Performance evaluation and optimization of ITSs*

*Online monitoring and fault diagnosis for ITSs*

*Fault-tolerant control and performance recovery of ITSs*

*Lifecycle management and remaining useful life prediction of ITSs*

*Fault identification and prognosis for ITSs*

*Computer vision-based SMO for ITSs*

*Fault simulation and injection for ITSs*

*Explainable SMO designs for ITSs*

*Heterogeneous and hybrid SMO designs for ITSs*

*Submission Deadline: July 1st, 2023*