

## Scientific Interest Group on Intelligent Transport Systems

### Main missions of ITS SIG

- Accurate survey of competencies in terms of ITS available among the members
- Organisation of internal scientific exchanges between SIG members
- Organisation of technical and scientific events in relation with the SIG topics towards companies, local authorities and scientists
- Follow-up of national and European calls in the ITS domain, in order to facilitate proposals gathering several SIG members
- Connection with the western clusters (ID4CAR, Images & Networks, SEA...) in order to collaborate with them in the ITS domain
- Representation of SIG members in the main events of the ITS domain

Website <http://gis-its.ifsttar.fr>

E-mail [gis-its@ifsttar.fr](mailto:gis-its@ifsttar.fr)

Internet links <http://www.transport-intelligent.net/>

Chairman of ITS SIG

**Jean-François JANIN** (French Ministry in charge of Transport)

Director of ITS SIG

**Philippe COSQUER** (CMA22 / Véhipole)

Chairman of the Scientific Council

**François PEYRET** Senior researcher at IFSTTAR



## Scientific Interest Group on Intelligent Transport Systems

(by alphabetical order)

**CETE de l'Ouest** (*Centre d'Études Techniques de l'Équipement de l'Ouest*)

*Chambre de Métiers et de l'Artisanat des Côtes d'Armor – Véhipole*

**ECAM Rennes** engineering high school

**École Centrale de Nantes** engineering high school (**IRCCyM**)

**ENSTA-Bretagne** engineering high school

**ESEO** engineering high school

**IFSTTAR** (*French institute of science and technology for transport, development and networks*)

**INSA de Rennes** (*National Institute of Applied Sciences*)

**Rennes 1 University**

**Rennes 2 University**

**Télécom Bretagne** engineering high school

## Management structures of the ITS SIG

### Group Council

- Elects the SIG Chairman and the Scientific Council chairman
- Validates the activity topics proposed by the Scientific Council
- Assesses the proposals about the creation of working groups proposed by the Scientific Council
- Validates the annual activity report established by the Scientific Council
- Proposes to the registered members the extension of the SIG to new members

Chairman of the Group Council

**Jean-François JANIN** Head of the ITS Mission at the Ministry in charge of Transports

### Scientific Council

- Proposes the orientations and topics of the SIG
- Proposes the setting up of working groups on the identified research topics
- Proposes the topics of the scientific and exchange events
- Examines the requests of approval of projects in answer to the ITS calls
- Establishes the annual report on the scientific activities

Chairman of the Scientific Council

**François PEYRET** Senior researcher at IFSTTAR

Director of the ITS SIG

**Philippe COSQUER** (CMA22 / Véhipole)

## The five scientific topics of the ITS SIG

### 1: Telecommunications

**Convenors** Jean-Marie Bonnin (*Télécom Bretagne*), Ali Khenchaf (*ENSTA Bretagne*)

*Keywords* Propagation, radio-electrical environment, radio-electrical links, networks and protocols, cooperative systems, mobile networks, mobile IPv6

*Applications* all cooperative ITS applications (traffic management, users safety, infotainment...).

### 2: Geopositioning

**Convenor** Juliette Marais (*IFSTTAR/LEOST*)

*Keywords* GNSS (Global Navigation Satellite Systems), proprioceptive sensors, vision, mapping, antennas, propagation channel modelling, estimation, data fusion, map-matching.

*Applications* user information, traffic management, Geofencing-based access control, dangerous goods transportation tracking, vehicle guidance, advanced driver assistance systems...

### 3: Embedded systems

**Convenors** Olivier Berder (*Rennes 1 University - ENSSAT / IRISA*), Moïse Djoko-Kouam (*ECAM Rennes*), Olivier-Henri Roux (*École Centrale de Nantes / IRCCyN*)

*Keywords* Electronic architectures, low energy consumption, tests, systems reliability and security, embedded software, real time, signal processing, sensors, antennas...

*Applications* embedded systems on board of vehicles or in the side road infrastructure for all modes of transport.

### 4: Information systems

**Convenors** Cyril Ray (*École Navale – IRENav*), Fabrice Comblet (*ENSTA Bretagne*)

*Keywords* GIS (Geographical Information Systems), safety, navigation, multimodal transport, freight management, modelling of localisation information, data mining...

*Applications* Support all transport modes (including indoor/outdoor pedestrian) and the intermodality between: individual or collective, on-demand or self-service.

### 5: Uses

**Convenors** Stéphanie Bordel (*CETE Ouest DLRB*), Alain Somat (*Rennes 2 University - LAUREPS*)

*Keywords* Acceptability, acceptance, appropriation, ergonomics, HMI (Human Machine Interface)

*Applications* All the ITS systems and compounds involving human beings