

## Preliminary Program

**Tuesday 20 October 2009**

08:30-10:00	<p>Opening Ceremony Japan: NICT, YRP France: INRETS, Région</p>					
10:00-10:30	<p>Coffee break</p>					
10:30-12:30	<p>Plenary Session Related to ITS Policy in Europe, Japan, USA</p> <p><b>Nets4Cars: overview of the consortium activities and report on the workshop 2009</b> <i>Alexey Vinel</i></p> <p>To be confirmed: France Transport Ministry / ITS University of Sherbrooke ECTRI EURNEX/ NEARCTIS</p>					
12:30-14:00	<p>Lunch</p>					
14:00-16:00	ITS App I	PHY I	IPv6 I	Antennas I	EMC I	
16:00-16:30	<p>Coffee break</p>					
16:30-18:30	ITS App II	PHY II	IPv6 II	Antennas II	EMC II	
19:00	<p>Welcome Cocktail</p>					

## Wednesday 21 October 2009

08:30-10:00	<p>Plenary Session To be confirmed:</p> <p><b>GALILEO for ITS</b></p> <p><b>Intelligent Mobility for Transport</b></p> <p><b>ITS technologies in Maritime and Fluvial domains</b></p> <p><b>IPv6 and mobility</b></p> <p><b>EMC for ITS</b></p>					
10:00-10:30	Coffee break					
10:30-12:30	ITS App III	Geonetworking	IM I	GALILEO I	Maritime I	
12:30-14:00	Lunch					
14:00-16:00	VANET I	PHY III	IM II	GALILEO II	Workshop iTetris	Poster
16:00-16:30	Coffee break					
16:30-18:30	VANET II	PHY IV	IM III	FPGA	Workshop iTetris	Poster
19:30	Gala dinner					

**Thursday 22 October 2009**

08:30-10:00	<p style="text-align: right;">Plenary Session</p> <p><b>Cognitive radio for transport applications</b>  <i>Petri Mähönen (RWTH – Germany)</i></p> <p style="text-align: right;">To be confirmed:</p> <p><b>UWB systems for transport applications</b>  <i>Alain Sibille (ENSTA – France – COST 2100, WG2 Chair)</i></p>					
10:00-10:30	Coffee break					
10:30-12:30	Workshop Geonet	Workshop EURNEX	Coop Syst	Security	UWB	
12:30-14:00	Lunch					
14:00-14:30	Closing Session					
14:30-18:00	Demo Geonet	Workshop EURNEX	Technical Visits			

October  
20-22,  
2009



**ITST 2009 LILLE**  
The 9th International Conference on ITS Telecommunication

NTIC for ITS to increase traffic efficiency and optimize transport modes under safety and security constraints

Tuesday 20 October 2009

14h00 – 16h00

## ITS App I

Chair:

### **A Model Of Wireless Sensor Networks Using Context-Awareness In Logistic Applications.**

*Son Vo Que, Bernd-Ludwig Wenning, Andreas Timm-Giel and Carmelita Görg*

### **Scalability Investigations on Communication Traffic in Distributed Routing of Autonomous Logistic Objects.**

*Bernd-Ludwig Wenning, Henning Rekersbrink and Carmelita Goerg*

### **A Telecommunications Framework for Real-Time Monitoring of Dangerous Goods Transport.**

*Fabio Valente, Giammarco Zacheo, Pierfrancesco Losito and Pietro Camarda*

### **Impact of introducing road charging on supporting mobile data networks.**

*Wim Vandenberghe, Johan Bergs, David Carels, Nik Van Den Wijngaert, Erwin Van De Velde, Chris Blondia, Ingrid Moerman and Piet Demeester*

### **ITS forecast: GIS Integration with Active Sensory System.**

*Arturo Gómez, Gladys Diaz and Khaled Boussetta*

## PHY I – Channel modeling

Chair:

### **Optimizing Channel Simulation for Dynamical Scenarios in Railway Transport.**

*S. Hairoud, P. Combeau, Y. Pousset, J.-F. Cailbault, R. Vauzelle and M. Berbineau*

### **Measurement of Radio Wave Propagation in Arch-Shaped Tunnels for Railway Applications.**

*Emilie Masson, Pierre Combeau, Marion Berbineau and Rodolphe Vauzelle*

### **MIMO channel emulator based on reverberation chambers.**

*Olivier Delangre, Philippe De Doncker, Martine Lienard, Davy Gaillot and Pierre Degauque*

### **Conception and application of smart antennas for transport applications.**

*Pierre Combeau, Jean-Marie Paillot, Rodolphe Vauzelle, David Cordeau and Yannis Pousset*

### **Performance Evaluation of SISO, SIMO and MIMO Systems for Car-to-Car Communications in Urban Environments.**

*Lars Reichardt, Christian Sturm and Thomas Zwick*

## IPv6 I – NEMO

Chair:

### **Enabling QoS using packet marking and scheduling in a multi-homed NEMO Mobile Router with GNU/Linux.**

*Mathieu Peresse and Jean-Marie Bonnin*

### **Mobile VPN and V2V NEMO for Public Transportation.**

*Alexandru Petrescu and Alexis Olivereau*

### **GPS Aided Predictive Handover Management for Multihomed NEMO Configurations.**

*Gabor Jeney, Laszlo Bokor and Zsigmond Mihaly*

### **Using NEMO to support Network Mobility within Railway Infrastructures.**

*Rafidah Md Noor and Christopher Edwards*

### **CVIS: CALM Proof of Concept Preliminary Results.**

*Thierry Ernst and Vilmos Nebehaj*

## Antennas, Radar, Sensors I

Chair:

### **Reconfigurable Multi-Beam Pillbox Antenna for Millimeter Wave Automotive Radars.**

*Mauro Ettorre and Ronan Sauleau*

### **A Study on Space Division DS/SS Inter-Vehicle Communication System using Circular Array Antenna.**

*Ken Yamamoto, Kyohei Masui, Kohei Ohno and Makoto Itami*

### **Use of Contextual Information by Bayesian Networks for Multi-Object Tracking in Scanning Laser Range Data.**

*Regis Lherbier, Bassem Jida, Jean-Charles Noyer and Martine Wahl*

### **Target tracking in the time-frequency domain for a driving aid application.**

*Zineddine Bouhroum, Thierry Chonavel, Ronan Fablet and Pascal Deloof*

### **Strategies for FMCW radars.**

*Ali Bazzi, Thirerry Chonavel, Camilla Karnfelt, Alain Peden and Frantz Bodereau*

## EMC I

Chair:

### **PSpice Modeling of Electrified Railway Propulsion Drive Rectifiers for Harmonics Analysis.**

*Kelin Jia and Rajeev Thottappillil*

### **Testing of the GSM-R System against Electromagnetic Disturbances present in the Railway Environment.**

*Stephen Dudoyer, Ricardo Adriano, Virginie Deniau, Nedim Ben Slimen and Benoit Meyniel*

### **Roundit VO EMI: A new milestone in shielding technology.**

*Amelie Simoens, Lucia Della Putta and Laurent*

### **Comparison between GSM-R coverage level and EM noise level in railway environment.**

*Tarik Hammi, Nedim Ben Slimen, Virginie Deniau, Jean Rioult and Stephen Dudoyer*

### **Analysis of electromagnetic pollution radiated due to embedded 802.11a/b/g equipments both inside and outside railway vehicles.**

*Philippe Mariage, Virginie Deniau, Divitha Seetharamdo and Jean Rioult*

## ITS App II

Chair:

**Study on impact of taxi status to probe car system performance.**

*Bo Liu, Kai Liu and Hiroaki Mizuta*

**A New Intelligent Traffic Control System for Taiwan.**

*Liang-Tay Lin and Hung-Jen Huang*

**Improving the Safety of Pedestrian by Using Car2X Technology.**

*Johannes Morgenroth and Lars Wolf*

**Uniform Location Referencing Standard for Road Traffic Data in Thailand.**

*Nattapon Klakhaeng, Kannikar Siriwong Na Ayutaya, Monsak Socharoentum and Wasan Pattara-Atikom*

**Impact of Intelligent Traffic Information System on Congestion Saving in Bangkok.**

*Wasan Pattara-Atikom, Taksin Punyararj, Kannikar Siriwong Na Ayutaya and Anurak Poolsawat*

## PHY II – System performance evaluation

Chair:

**A realistic MIMO time-variant channel applied to diagonalizing precoders.**

*Ghadir Madi, Baptiste Vrigneau, Yannis Pousset and Rodolphe Vauzelle*

**Weight Design of AF MIMO Relay System with Perfect Channel State Information.**

*Tetsuki Taniguchi, Yoshio Karasawa and Nobuo Nakajima*

**Impact of Spatial Correlation on Orthogonal Precoding for MIMO transmissions in tunnels.**

*Kamel Boukantar, Charlotte Langlais, Yann Cocheril and Marion Berbineau*

**MIMO Broadcast Channel with Limited Feedback Fading Channels.**

*Jung Hoon Lee and Wan Choi*

**Enhanced performances of MIMO transmissions over correlated channels system by using adaptive bit and power allocation on eigenmodes.**

*Imade Fahd Eddine Fatani, Mohamed Gharbi, Marie Zwingelstein-Colin, Patrick Corlay, Marion Berbineau and Francois-Xavier Coudoux*

## IPv6 II – Mobility

Chair:

**Context-Adaptive Vehicular Network Optimization.**

*Olivier Mehani, Roksan Boreli and Thierry Ernst*

**A Novel Architecture for Secure, Always-Best-Connected Ship-Shore Communications.**

*Nerea Toledo, Marivi Higuero, Eduardo Jacob and Marina Aguado*

**Implementation of Fast Auto-configuration for MANET.**

*Chaiwat Yanprasop, Vasaka Visoottiviseth and Panita Pongpaibool*

**mSCTP based Mobile WiMAX (IEEE 802.16e).**

*Sandeep Kumar B.R.V.*

**Collaborative Handover Mechanism for Real-Time Services.**

*Mohammed Boutabia and Hossam Afifi*

## Antennas, Radar, Sensors II

Chair:

**77 GHz ACC Radar Simulation Platform.**

*Camilla Kärnfelt, Alain Péden, Ali Bazzi, Ghayath El Haj Shhadé, Mohamad Abbas, Thierry Chonavel and Frantz Bodereau*

**RCS measuring procedure and distribution for automotives in the context of ITS.**

*Flavien Somda, Olivier Lafond, Laurent Le Coq and Mohamed Himdi*

**Accuracy Improvement Method for Vehicle Detection Using Optical Sensors.**

*La-Or Kovavisaruch, Taweesak Sanpechuda and Jatuporn Chinrungrueng*

**Collision avoidance radar system using UWB waveforms signature for road applications.**

*Laila Sakkila, Atika Rivenq, Fouzia Boukour, Charles Tatkeu, Yassin Elhillali and Jean-Michel Rouvaen*

## EMC II

Chair:

**Dynamic Spectral Monitoring for Flexible and Reconfigurable Railways Communication Systems.**

*Crépin Nsiala Nzéza, Thibaut Blondel, Gérald Moniak, Marion Berbineau and Roland Gautier*

**Automatic Modulation Recognition Using Wavelet Transform and Neural Network.**

*Kais Hassan, Iyad Dayoub, Walaa Hamouda and Marion Berbineau*

**A Study on Interference mitigation method with Spectrum Shaping code in DS-UWB radar.**

*Kensuke Ohkuni, Masayuki Hayasi and Ryuji Kohno*

**Radioelectric compatibility of the Future Aeronautical Communication System.**

*Najett Neji, Raul De Lacerda, Thierry Letertre, Alain Azoulay and Olivier Outtier*

**Modelling Interference Phenomena between Cosite Radiocommunication Equipments to Evaluate Systems Performance Degradation.**

*Evlin Yalcin*

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### **ITS App III**

Chair:

**A Sequential Methodology for Identification of Lane-Blocking using Relative Speed and Lane Changing Trajectory.**

*Suttipong Thajchayapong and Javier Barria*

**Relative driving direction detection for safety and non safety applications in vehicular communication networks.**

*Hamid Menouar and Massimiliano Lenardi*

**iTETRIS - A Large Scale Integrated Simulation Platform for V2X Communications: Application to Real-Time Traffic Management.**

*Vineet Kumar, Ramon Bauza, Fethi Filali, Javier Gozalvez, Lan Lin and Miguel Sepulcre*

**Obstacle Avoidance and Trajectory Replanification for a Group of Communicating Vehicles.**

*Pierre Avanzini, Benoît Thuilot and Philippe Martinet*

**Rapid Prototyping Vehicle-to-Infrastructure Applications using the android.**

*Marek Laskowski, Marcia R Friesen, Jeff Allen, Ken Ferens and Bob Mcleod*

### **Geonetworking**

Chair:

**GeoMapped Beacon Timing.**

*Andras Kovacs*

**Enabling IP geomulticast services for vehicular networks.**

*Alberto Gordillo, Maria Calderon and Carlos J Bernardos*

**A Distributed Data Propagation Method to Multiple Areas by Using a V2V Communication.**

*Tomoya Kuroki, Ryohei Hatori, Ami Uchikawa and Hiroshi Shigeno*

**Geographical information extension for IPv6: application to VANET.**

*Yacine Khaled and Thierry Ernst*

**A Case for Using MBMS in Geo-Networking.**

*Michelle Wetterwald*

### **Intelligent mobility I**

Chair:

**Concept for Crossborder Data Exchange on Wayside Train Monitoring Systems.**

*Andreas Schöbel And Thomas Maly*

**Generic ground side interface for remote train access.**

*Armin-Hagen Weiss and Kucharzyk Uwe*

**A Dynamic Service-oriented Framework for Transportation Domain.**

*Mikael Desertot, Sylvain Lecomte and Thierry Delot*

**Context Management Systems Applied to Mobility.**

*Baptiste Gaultier, Rayene Ben Rayana and Jean-Marie Bonnin*

**A Global Integrated Architecture for Intelligent Mobility.**

*Christophe Gransart and Didier Van Den Abeele*

### **GALILEO I**

Chair:

**Validation of satellite-based railway application systems using the GALILEO testbed “railGATE” exemplified by automated train formation facilities.**

*René Rütters, Martin Baier and Dirk Abel*

**A Precise Digital Map for GALILEO-Based Train Positioning Systems.**

*Katrin Gerlach and Michael Meyer Zu Hörste*

**GINA - GNSS for INnovative road Applications- : EGNOS/GALILEO for road user charging and value added services.**

*Sara Gutiérrez Lanza, Carlos Busnadiago Gutiérrez, Joaquín Cosmen Schortmann and Laure Dezes*

**Geofencing For Fleet & Freight Management.**

*Fabrice Reclus*

### **Maritime I**

Chair:

**Emerging Maritime Communication Technologies.**

*Fritz Bekkadal*

**Experimental measurements of propagation characteristics for maritime radio links.**

*Yvon Marie Le Roux, Fabien Nicolas and Jacky Menard*

**Intelligent Middleware for High Speed Maritime Mesh Networks with Satellite Communications.**

*Roksana Boreli, Yu Ge, Thava Iyer, Christoph Dwertmann and Jaya Shankar Pathmasuntharam*

**An analysis model of DoA in maritime environment for ship-to-ship/shore wireless communications.**

*Ming-Tuo Zhou, Hiroshi Harada and Jaya Shankar Pathmasuntharam*

**Forecasting time delays with artificial neural networks – application to a maritime container terminal operations planning.**

*Ioana Bilegan, Gianfranco Fancello, Marco Pisano and Paolo Fadda*



**Wednesday 21 October 2009 14h00 – 16h00**

## **VANET I – Routing**

Chair:

### **Reliable OB-VAN.**

*Anis Laouiti, Paul Muhlethaler and Yasser Toor*

### **Connectivity Requirements for Vehicular Networks with Single-Hop Broadcasting.**

*Sooksan Panichpapiboon and Wasan Pattara-Atikom*

### **Realistic SISO and MIMO Physical Layer implemented in two Routing Protocols for Vehicular Ad hoc Network.**

*Anne Marie Poussard, Wassim Hamidouche, Rodolphe Vauzelle, Yannis Pousset and Benoit Parrein*

### **An Enhanced AODV Protocol for VANETs with Realistic Radio Propagation Model Validation.**

*Herve Boeglen, Jonathan Ledy, Abdelhafid Abouaissa, Benoît Hilt and Rodolphe Vauzelle*

### **Scalable Routing Technique for Vehicular Networks using Road Hierarchy.**

*Sandesh Upoor, Manohara Pai .M.M, Mounir Boussejra and Joseph Mouzna*

## **PHY III – System performance evaluation**

Chair:

### **Physical Layer Performance Analysis of V2V Communications in High Velocity Context.**

*Iulia Ivan, Philippe Besnier, Matthieu Crussiere, M'hamed Drissi, Mickael Huard and Eric Lardjane*

### **Data supervision for adaptively transcoded video surveillance over wireless links.**

*C. Lamy-Bergot, E. Renan, B. Gadat and Damien Lavaux*

### **Cooperative strategies comparison for infrastructure and vehicle communications in CAPTIV.**

*Tuan-Duc Nguyen, Olivier Berder and Olivier Sentieys*

### **Channel estimation of OFDM system for high data rate communications on mobile environments.**

*O. Boudali, A. Menhaj-Rivenq, I. Dayoub, M. Berbineau*

### **WiFi in High-Speed Transport Communications.**

*Alexandre Zhao*

## **Intelligent mobility II**

Chair:

### **A manual for utilizing risk management in safety of railway transportation systems.**

*Mojtaba Moazzezi and Ferydoon Kianfar*

### **Component based approach using OMNeT++ for Train Communication Modelling.**

*J.-C. Maureira, P. Uribe, T. Asahi, J. Amaya and O. Dalle*

### **CCTV and Control-Command with Wireless Systems for Metro Applications.**

*Martine Wahl, Mauricio Casanova, Marion Berbineau, Mohamed Kassab and Marina Aguado*

### **Defining and deploying a CBTC system in heavy-haul railroad.**

*Paulo Vieira*

### **Simulation framework for performance evaluation of broadband communication architectures for next generation railway communication services.**

*Marina Aguado, Jasone Astorga, Eduardo Jacob and Marion Berbineau*

## **GALILEO II**

Chair:

### **Enhancement of Galileo and multi-constellation accuracy by modeling pseudorange noises.**

*N. Viandier, A. Rabaoui, J. Marais and E. Duflos*

### **On the use of Dirichlet Process Mixtures for the modelling of pseudorange errors in multi-constellation based localization.**

*A. Rabaoui, N. Viandier, J. Marais and E. Duflos*

### **Qualification of specifications from satellite based navigation systems for land transport.**

*Hansjörg Manz, Uwe Becker and Lars Schnieder*

### **Virtual 3D city model for intelligent vehicle geo-localization.**

*Jing Peng, Cindy Cappelle, Maan El Badaoui El Najjar, Denis Pomorski and François Charpillat*

## **Poster**

Chair:

### **An Analysis of Performance Degradation caused by Hidden Terminal and its Improvement in Inter-Vehicle Communication.**

*Takamasa Kuge, Kohei Ohno and Makoto Itami*

### **Fountain Coding for Efficient TPEG data Receiving on Data Carousel Transmission.**

*Chen Long Lin and Chung-Shun Yang*

### **Wireless Mesh and Sensor Networking for Onboard Event Detection and Video Alarm Transmission for BOSS Project.**

*Oriane Gatin, Naceur Malouch and andres Barro*

### **Multiple level / open simulation approach to imagine, prototype, develop and validate Intelligent Transport Systems.**

*T. Nguyen That, D. Charondiere and G. Gallee*

### **Road Side Data Collection and Monitoring.**

*F. Basma, Y. Tachwali, K. Sparger and H. Refai*

### **Maritimes communications.**

*Vourc'h Yves and Picard Gilles*

### **Application of IPv6 multicast to VANET.**

*Yacine Khaled, Ines Ben Jemaa and Thierry Ernst*

### **The Operation "The Intelligent Moselle".**

*Philippe Vacherat*

### **Development of automotive radar simulator for implementation in a real-time multi-sensor simulator.**

*François Galle*

**Wednesday 21 October 2009 16h30 – 18h30**

### **VANET II – MAC and evaluation**

Chair:

**Joint rate control, MAC and routing in Cooperative VANETs.**

*Liang Zhou and Benoit Geller*

**CoFFee: Cooperative and InFrastructure-Free Peer-To-Peer System for VANET.**

*Talar Atechian, Zeina Torbey, Nadia Bennani and Lionel Brunie*

**Performance Evaluation of a Media Access Control Scheme Using Vehicle Position Information for an Inter-vehicle Communication System.**

*Tomotaka Nagaosa and Naoki Takahashi*

**A New QoS Enhancement Scheme for IEEE802.11 WLANs.**

*Ahmed Riadh Rebai, Said Hanafi and Hussein Alnuweiri*

**A Cooperative and Fully-Distributed Congestion Control Approach within VANETs.**

*Mohamed Salah Bouassida and Mohamed Shawky*

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### **PHY IV – Wired systems**

Chair:

**Power Line Communication standards for in-vehicle networks.**

*Philippe Tanguy, Fabienne Nouvel and Patrice Maziero*

**Low amplitude Impulsive Noise study in vehicular power line network.**

*Fatma Rouissi, Virginie Degardin, Martine Lienard and Pierre Degauque*

**Utilisation of Matched Pulses to Improve Fault Detection in Wire Networks.**

*Layane Abboud, andrea Cozza and Lionel Pichon*

**A new method of evaluating wired networks topology for fault diagnosis applications.**

*Ye Zhu, Marc Olivas and Fabrice Auzanneau*

**Dependability of embedded networks - A case study with system diagnosis of CAN protocol.**

*Oum-El-Kheir Aktouf, Christophe Deleuze and Martine Wahl*

### **Intelligent mobility III**

Chair:

**Field Experimentation of the RAMPE Interactive Auditive Information System for the Mobility of Blind People in Public Transport: Final Evaluation.**

*Olivier Venard, Geneviève Baudoin and Uzan Gérard*

**Opening the road for scalable Intelligent Public Transport Solutions.**

*Fourgeau Eliane, Felix Benjamin and Gagnet Eric*

**Transport system architecture for on board wireless secured A/V surveillance and sensing.**

*C. Lamy-Bergot, S. Ambellouis, L. Khoudour, D. Sanz, N. Malouch, A. Hocquard, J.-L. Bruyelle, L. Petit, A. Cappa, A. Barro, E. Villalta, G. Jeney and K. Egedy*

**The Viatic Concept: Information Technology for Intelligent Travellers.**

*Guillaume Uster, Stephane Juguet and Gregoire Talon*

**On the exploitation of Computer Vision in Intelligent Transportation System applications.**

*Carincotte Cyril*

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### **FPGA**

Chair:

**Reconfigurable ECU communications in AUTOSAR Environment.**

*Hung-Manh Pham, Sebastien Pillement and Didier Demigny*

**Radar Based Collision Avoidance System Implementation in a Reconfigurable MPSoC.**

*Jehangir Khan, Smail Niar, Atika Menhaj and Yassin Elhillali*

**FPGA-based Vehicular Channel Emulator for Evaluation of IEEE 802.11p Transceivers.**

*Tiago M Fernandez-Carames, Miguel Gonzalez-Lopez and Luis Castedo*

**Flexible Multi-Standard Multi-Tuner architecture for Software Defined Radio broadcast receiver.**

*Matthias Ihmig and andreas Herkersdorf*

**Model based design flow for implementing an Anti-Collision Radar system.**

*Imran Rafiq Quadri, Yassin El Hillali, Samy Meftali and Jean-Luc Dekeyser*

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## Cooperative systems

Chair:

**Road Co-operative Systems - Societal and Business values.**

*Gérard Segarra*

**Targeted Prototypization for C2X Cooperative Systems Field Operational Tests.**

*Andrea Tomatis, Massimiliano Lenardi, Markus Miche, Thomas M Bohnert, Florian Haeusler And Ilja Radusch*

**Performance Evaluation of Vehicle Cooperative Driving Assistance Systems that Uses Forward Obstruction Detecting Sensors and Inver-vehicle Communication.**

*Yusuke Takatori and Hiroyuki Yashima*

**Simulation of vehicle automatic speed control by transponder-equipped infrastructure.**

*Dominique Gruyer*

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## Security

Chair:

**A secure anonymous key mechanism for privacy protection in VANET.**

*Henry Chang, Chris Lai and Chei Chung Lu*

**Security requirements for automotive on-board networks.**

*Olaf Henniger, Ludovic Apvrille, Henrik Broberg, andreas Fuchs, Yves Roudier, Alastair Ruddle and Benjamin Weyl*

**Trusted Routing for VANET.**

*Terence Chen, Olivier Mehani and Roksana Boreli*

**Global Public Key Algorithm for secure location service in VANET.**

*Pradeep Bangera, Dr Manohara Pai M M, Dr Joseph Mouzna and Dr Mounir Boussedjra*

**SeVeCom – Security and Privacy in Car2car ad hoc Networks.**

*Michel Sall, Guillaume Reinhard and Bjoern Wiedersheim*

## UWB

Chair:

**Positioning System Using The SS-Ultra Wide Band Technique For Transport Application.**

*Boukour Fouzia, Rivenq Atika and Rouvaen Jean-Michel*

**Coverage Area Prediction of In-car Wireless Communications Employing MB-OFDM UWB Systems.**

*Ryouhei Kaneko and Fumiaki Maehara*

**Comparison of tow coding technique dedicated to UWB V2V communication system.**

*Yassin El Hillali, Raja Ellassali, Fouzia Boukour, Amel El Abed and Atika Rivenq*

**Impact of Time Reversal on UWB location system for Public Transport.**

*Michael Bocquet, Marc Heddebaut and Fouzia Boukour*

**UWB Channel Analysis Within a Moving Car.**

*François Bellens, François Quitin, François Horlin and Philippe De Doncker*