1. Importance, Timelines and Goals

The popularity of automobiles has resulted in a complicated sustainability burden for human society and the natural environment, such as safety threats to pedestrians, roadway congestion, fossil-fuel depletion and gas emission problems. In the past decade, there has been an increasing need to enhance the benefits of automobiles and decrease their environmental footprint, i.e., the roadway infrastructure and automobiles should act as part of an intelligent transportation system (ITS). Smart vehicles and wireless communications for ITSs are promising technologies to improve driving safety, reduce traffic congestion and support information services in vehicles, meanwhile green life toward blue planet becomes our ultimate goal. Despite the recent global economic downturn that has negatively affected the automobile industry, active research continues in these areas, and new technical challenges have emerged that demand research and development.

A new era of vehicular technology that includes vehicle-to-vehicle (V2V) and vehicle-to-infrastructure (V2I) communication is approaching, which is driven by both (pre-competitive) public-sector and private-sector funding. Not only are safety-related applications taken into consideration, but non-safety multimedia content providers are also becoming a new topic of research. Key players in the industry, such as automobile companies (e.g., Toyota, BMW) and government agencies (e.g., the U.S. Department of Transportation), are investing heavily in the advanced research and development of many research projects. This research effort primarily focuses on the system development and standardization of telematics. Until recently, systematic testing and standardized certification procedures have rarely been investigated.

During recent ITS developments, transportation telematics techniques have exhibited much progress, e.g., interaction between automobiles and the infrastructure for delivering services such as road-side assistance, automatic crash notification, concierge assistance and vehicle condition reports. A number of IEEE 802.11p-like equipment prototypes have been built, and several technical reports based on field trials have demonstrated the lack of cutting-edge techniques to improve system performance. Technology and applications for ITSs and telematics design are rapidly emerging, and there is a critical need to bring together professional researchers, intelligent engineers, academia, industry, the private sector and the public sector together to exchange new ideas.

This conference aims to accelerate research progress by serving as a forum to in which both academia and industry can share experiences and report original works regarding all aspects of vehicular communication, e.g., Vehicular Ad hoc Networks (VANETs), information dissemination, road safety, ITS and emergency services. Our primary goal is to promote meaningful research in the cross-layer design of
architectures, algorithms and applications for inter-vehicular communication environments. This conference also addresses numerous significant standardization efforts (IEEE 802.11p, p1609, TIA TR48, etc.) and some alternatives or improved systems.

Currently, the research on ITS is not only fundamental in theory but also applied in practice. It is in its infancy: many brand new concepts, approaches, techniques and protocols have not been well developed yet. Nevertheless a substantial number of testbeds and trials are ongoing. This attracts a lot of efforts to establish comprehensive research frameworks - supported by national and international funding bodies - as well as an appreciable deal of so-called curiosity-driven research.

However, the full potential of ITS research has not been explored so far. The main obstacle is fragmentation; the lack of a common forum to share ideas and results; serious gaps between practical problem-driven developments from the industry and fundamental curiosity-driven research from the academia, etc. The strategic approach to mitigate such obstacles seems to be in the coordination of the fragmented research/development communities. The coordination efforts thus lead to an agreement on the research agenda and the sharing of ideas and results on a regular basis. This can be done by achieving a better coordination between research stakeholders of different countries.

2. **ITST-2012 Worth Your Sponsor and Support**

   Based on my personal experiences of attending recent IEEE principal conferences and workshops, e.g., VTC 2010-S and ICC 2010, many workshops concentrate research and development effort on Telematics-related topics. Many new techniques, regulations, standardizations have been generated in these years. Our IEEE ComSoc, IEEE VTS and IET ITS should take full responsibility to lead such a research and must have more chances to delve in and to explore such multi-discipline issues regarding channel measurements (on real-automobiles), cross-layer design, standardization progress, regulation/certification procedures while equipment commercialization, automobile/vehicular electronics and multi-platform coexistence problems.

3. **ITST History**

   The International Conference on Intelligent Transport Systems Telecommunications (ITST) was first founded by the National Institute of Information and Communication Technology (NICT, Japan) in 2000. It was one of the first forums, dedicated to intelligent transport systems. In the past decade, ITST became the trademark of newest ideas and latest research results from the leading industrial entities and scientific institutions in the area of transport communications.

4. ITS Advances in Taiwan

In Taiwan, the intelligent Taiwan project is supported by the Taiwan government, and it is included in so-called “Love Taiwan 12 Constructions.” As shown in Fig. 1, the aim of intelligent Taiwan is to build a fluent transportation network and seamless transportation service.

![Figure 1: Recent Critical ITS Infrastructure for Intelligent Taiwan](Source: Institute of Transportation, MOTC)

5. It is Taiwan’s Time

Based on ITS, equipment prototypes have been produced and some emulation environments are deployed. Several technical reports based on field trials have demonstrated that the system performance requires improvement. Especially, most of the current solutions for ITS system may not consider the high mobility scenarios or fast handover mechanisms. Although there may be existing techniques capable to solve
these difficulties, the hardware may be too complicated to be realized.

The conference will enhance the knowledge exchange and give a potential to coordinate research efforts in a form of joint project proposals in the area of intra- and inter-vehicle communications. It will foster dissemination of research results, initiate creation of a community of stakeholders all over the world. The conference will offer a stage for young researchers presenting their ongoing projects and results; being properly assessed and advised by well-established experts, researchers and professors. It is expected that brand-new community the conference will foster, will further be active in joint research through joint publications, tutorials, workshops and conference organizations.

6. Contributions

This conference aims at to spur research progress by serving as a forum to in which both academia and industry can share experiences and report original works regarding all aspects of hardware implement or baseband techniques design. Our intention is to promote meaningful research in the real world implementation and to be the solution of oncoming standards. This conference also addresses numerous significant standardization efforts (IEEE 802.11p, p1609, TIA TR48, etc.) and some alternatives or improved systems.

7. Journal Publication Channel

Some papers will be nominated by the International Advisory Board for the “Best Paper Award.” To enhance the scientific quality of this event, the conference Organizing Committee has entered into an agreement with the Editor-in-Chief (Dr. Alan Stevens) and the publishing office of IET Intelligent Transport Systems (IET ITS), which is an SCI-E (ISI) and EI indexed peer-reviewed journal. See: http://www.ietdl.org/IP-ITS. Shortly after the close of ITST-2012, authors of papers that are considered suitable for expansion and consideration for a Conference Special Issue will receive a formal invitation to submit an updated and enhanced paper. Papers will go through the journal’s standard peer-review process and, if accepted for publication, will be indexed in the citations databases. This Special Issue will appear as a (hardcopy) publication in June 2014 with accepted papers available on-line in March 2014.
8. **Main Topics**

Future ITS technology which includes vehicle-to-vehicle (V2V) and vehicle-to-infrastructure (V2I) communication will be operated for safety-related applications or non-safety multimedia content providing applications. In recent years, key players, such as automobile companies and government agencies, are heavily investing on various advanced researches. These research efforts primarily focus on the ITS system scenarios and standardization of telematics. Until very recently, not only systematic testing and standardized certification procedures, but also the baseband transceiver structure has rarely been investigated. Meanwhile, considering the environment protection issue, the issue called “Green ITS” is also be included in this conference. By using energy efficiency modulation techniques or other low power transceiver design to prolong the pedestrians’ hand-held equipment battery life or saving road side units (RSUs) power consumption.

Four tracks will be emphasized in ITST-2012:

- **Smart Vehicle**
  
  *Topics of Interest:*
  
  - Video/Audio signal processing for driver-assistance systems
  - In-Car communications/telematics
  - Analog/Digital circuit design for in-car smart systems
  - SoC architecture/platform for smart car systems
  - Green design techniques for smart cars
  - Security and privacy in vehicular networks
  - Field operational tests and testbeds for smart vehicular
  - Vehicle collision avoidance
  - Sensors and actuators

- **Intelligent Transportation Systems (ITS)**
  
  *Topics of Interest:*
  
  - Data-collection, organization and dissemination methods
    - Floating vehicles
    - Traffic and flow modeling and analysis
    - Remote service provisioning and over-the-air upgrading technology
    - Data replication, caching and pre-fetching protocols
Simulation and performance evaluation techniques for vehicular networks
Network and QoS management for vehicular networks

New ITS/Telematics applications:
- Safety and driver-assistance applications
- Congestion control by cooperative data analysis
- Reduction of fuel consumption and greenhouse gas emission
- Standardization and economical models for vehicular networks
- Dependability of vehicular networks
- Networking with other road users
- Vehicular network as a sensor network
- ITS for Special Needs

Ongoing ITS/Telematics activities:
- Results from large-scale experimental systems, test beds and field trials
- Hardware implementation and infrastructure deployment
- Deployment strategies and predictions
- Standardization and development of VANETs: efforts and problems on 802.11p WAVE, 802.11s MESH, DSRC, etc.

**Telecommunications**

*Topics of Interest:*

- V2V, V2I and V2X communications
- Network protocols including MAC, routing, addressing, multicast, TCP protocols and end-to-end quality of service, resource management, security and privacy
- Design with multiple wireless data links (802.11p, WiMAX, WiFi, cell phone, GPS)
- Mobility or handover technology
- System-level, board-level and chip-level electronics
- PHY issues: channel measurement, channel modeling, channel estimation, antenna arrangement, pilot arrangement, etc.
- Physical layer and antenna technologies for vehicular networks
- RF propagation models for vehicular networks
- Radio resource management for vehicular networks

**Green Life Toward Blue Planet**

*Topics of Interest:*

- Field operational tests and testbeds for vehicular networks
- Assessment of impact of vehicular networks on transportation efficiency and safety
- Emission modeling and environmental impact assessment
- Regional requirements and their consequences
- Interference-Management and Spectrally-Efficient Technologies
  - Cellular planning and network optimization for green wireless networking
  - Cognitive, cooperative and reconfigurable networks
  - Hierarchical and distributed techniques for radio/wireless resource management
  - Novel network concepts and architectures that lower the overall footprint of ICT
- Resource-Efficient Networking Technology and Application Design
  - Green switching and routing technologies
  - Green wireless network architectures and communication protocols
  - Green communication services and applications
- Cross-Layer Design/Optimization and Green Transceiver Design
  - Joint PHY-MAC optimization for energy efficiency
  - Resource management/allocation to optimize/balance performance and power
  - Novel physical-layer technologies and efficient circuit/device design for energy harvesting
  - Novel technologies to reduce human electromagnetic exposure and electromagnetic pollution

The general purpose of this conference (ITST-2012) is to increase and boost knowledge concerning networking aspects of transceiver design for ITS. The workshop will initiate and support discussions in area leading to innovative algorithms, techniques, protocols models and tools that will facilitate research and development of real intra- and inter-vehicle communications systems.

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- **Workshop**
  
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13. Important Dates

- Call for Paper: November 1, 2011
- Workshop Proposal Submission: March 31, 2012
- Exhibition Proposal Submission: March 31, 2012
- Tutorial Proposal Submission: March 31, 2012
- Acceptance Notification: July 31, 2012
- Camera-Ready Paper Submission: August 31, 2012
- Early-Bird Registration: September 30, 2012
- VISA Support Request:

14. Keynote Speakers

- **Professor Hanna Bogucka**
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- **Dr. Jung-Chiou Hwang** (not confirmed yet)
  Vice Minister of the Ministry of Economic Affairs, Taiwan

- **Dr. Adam Drobot** (not confirmed yet)
  Managing Director and CTO of 2M Company (former CTO of Telcordia)

- **Dr. Panos Papadimitratos** (not confirmed yet)
  Associate Professor, KTH, Stockholm, Sweden.
  Email: papadim@kth.se

### 15. Invitation from the General Chair

It is a great pleasure to invite you to attend the 12th International Conference on ITS Telecommunications (ITST 2012), which will be held in Taipei, Taiwan, November 5-8, 2012. The Executive Committee joined with a lot of local and international volunteers is working diligently to make this conference a great success and most enjoyable.

The host city, Taipei, is the capital city of Taiwan. The venue of ITST-2012 is the Taipei International Conference Center (TICC), which is located in the hot spot of Taipei city and which is beside the Taipei 101 Building. It is in this amazing environment that ITST-2012 will bring together researchers, developers, practitioners, and business executives from all over the world. The conference committee will set up a high-quality technical program featuring technical sessions that will disseminate the latest research results in smart vehicle, ITS, Telecommunications and Green technologies, workshops and exhibitions, executives from industry will give their vision on the future trends in this fast-growing field, and tutorials by world-class experts. The conference committee will also set up an exciting social program that will make your stay in this city memorable. I invite you to immediately mark this event on your calendar and make your plans to attend this conference.

On behalf of the Executive Committee, I am looking forward to seeing you at ITST 2012, Taipei, Taiwan, November 5-8, 2012.
16. Appreciations for ITST 2011 Committees

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