

**INTERNATIONAL CONFERENCE
PROGRAM**

**INTELLIGENT TRANSPORTATION SYSTEMS
インテリジェントな輸送システム**

**ITS 2011
Innovation and Society**

**CONFERENCE AND CULTURAL CENTER OF THE
UNIVERSITY OF PATRAS**

Patras, 3-4 October 2011

Monday 3 October 2011

08:30 – 09:30

Registration and coffee

09:30 – 10:15

Conference opening – Welcoming addresses

- ❖ *Conference Chairs*
- ❖ *University representative*
- ❖ *Greek Road Federation representative*
- ❖ *ITS Hellas representative*
- ❖ *SES representative*

10:15 – 11:15

1 *Intelligent transport and traffic management*

Estimating route time accuracy on VMS of Traffic Management Center in Attiki region – 4281315X

D. Serbis, J. Theofilis, C. Babis, A. Chaziris, Attiki Traffic Management Center

Machine vision in traffic management – 4061504X_STU01

•E. Tzelepis, ATS Traffic Systems

ITS in freeway traffic management – 4291620S

E. Tyrogianni, B. Chalkias, A. Papadimitriou, P. Kopelias, Attikes Diadromes S.A.

GIS in freeway maintenance, management and operations – 4291621X

T. Doganis, TERRA EPE; G. Gania, G. Kioussis, Attikes Diadromes S.A.

11:15 – 12:00

Keynote Lecture
Prof. Panos Michalopoulos, Univ. of Minnesota
Distinguished Inventor

12:00 – 12:45

2 *ITS Innovation and Society*
Roundtable Discussion
Invited participants

Break

13:00 – 14:00

3 *Innovative ITS products and systems – ITS*
Hellas as an Industrial and Research Cluster

ITS Hellas: The role of ITS association in fostering innovation and introducing ITS clusters – 8291748S

V. Mizaras, A.Amditis, Y. Stephanedes, G. Aifadopoulou, M. Papageorgiou, ITS Hellas

Novel and open traffic data collection methods for transport planning and travel information – 4131005X

V. Mizaras, G. Sarros, Infotrip S.A.

Pilot development and evaluation of a system for collection of sensing location data with ad hoc wireless network of mobile sensors – 4301726P_STU07

•A. Katsikaridis, Greek Open University

e-call testing and implementation in Greece: Towards full deployment – 4292024X

A. Amditis and K. Pagle, ICCS

Effectiveness of modern traffic surveillance in reducing vehicle speed – 5061732X

S. Efstathiadis, V. Danelli-Mylona, P. Hillman, M. Androulidakis, E. Kotsilinis

Lunch

14:45 – 16.00

4 *Intelligent safety and security*

Efficient decision making to support incident management centers providing fleet safety and security services – 4291822X_SEC

G. Christoulas, P. Laimos, G. Megos, G4S Telematix S.A.

Risk assessment tool for road transportation security based on TAPA IIS database and TSR standard – 4291823X_SEC

P. Laimos, D. Kounoupas, C. Bouros, G4S Telematix S.A.

Intelligent prediction of LEA traffic flow – 8050243P

Y. Stephanedes, E. Matsoukis, UPatras; E. Tzelepis, NTUA

Evaluation of electronic speed radar signs in urban areas – 4302228X

S. Basbas, I. Politis, C. Lekka, P. Papaioannou, AUTH

Simulation of animal-vehicle collision and ITS – 8052246P_STU08

•G. Andrianopoulou and I. Giannakopoulou, UPatras

Coffee break

16:30 - 17:30

5

Multimodal transportation

ITS application in Athens transportation system – 5031230X

P. Skaloubakas, OASA

Productivity evaluation of Athens Urban Transportation Organisation using data envelopment analysis – 3301101X

E. Dikaiou and G. Botzoris, DUTh

Learning by imitation in transport mode choice – 6151135X

N. Tsakas, Universidad Carlos III de Madrid, Spain and E. Matsoukis, UPatras

Bus is coming – 4291419X

V. Kakavas, AMCO S.A.

National electronic database for optimization of pupil transportation – 4281214X

G. Aifadopoulou, M. Morfoulaki, B-M. Vassiladonakis, P. Iordanopoulos, K. Chrysostomou, IMET

Uniform intelligent internet platform for evaluation of prospective drivers and connection with test centers – 7210941X

A. Zografos, Zografos S.A. and E. Matsoukis, UPatras

17:30 - 18:30

6

ITS Innovation and Society Roundtable Discussion Invited participants

~ *End Day One* ~

Tuesday 4 October 2011

09:00 – 10:30

7

Green technologies in ITS

Intelligent green transportation: The case for Dynamic Carpooling – 8011842P

Y. Stephanedes, UPatras; P. Raxis, Atlantis Consulting S.A., I. Argyropoulos, TRAM S.A.

ITS application in pedestrian/ bicyclist risk at Minnesota roundabout crossings – 6250536P

J. Hourdos, M. Shauer, G. Davis, University of Minnesota, USA

Transport telematics applications for carsharing and bikesharing systems – 4291318X

D. Efthymiou and C. Antoniou, NTUA

Public bicycle system: Paris-VELIB – 4211713X

S. Steiros, V. Saltoyanni, F. Moschas, T. Triantafyllidis, UPatras

Intelligent green transportation systems – 4051703X

P. Papadakos, Transportation engineer and M. Papakonstanti, TRAM S.A.

Optimal cost and environmental road management using genetic algorithms – 7162438X_STU05

•M. Panagopoulou, UPatras

Coffee break

11:00 – 12:30

8

Modelling, prediction and control in ITS management

Self-similarity and long-range dependence in freeway traffic flow – 7011737P_STU04

•N. Moschonas, E. Panayotakopoulou, UPatras

An adaptive algorithm for deploying self-tuning traffic control systems – 4301927X

A. Kouvelas, M. Papageorgiou, TUC; E. Kosmatopoulos, DUTH

Phase diagram through image analysis with applications in traffic flow – 5292033P_STU02

•C. Yoldassis, UPatras

Practical considerations for on-line calibration of traffic simulation models – 4291317X

C. Antoniou, NTUA, M. Ben-Akiva, MIT, USA, H. Koutsopoulos, RIT-KTH, Sweden

Estimating forced lane change – 4282016X_STU03

•M. Peppe and C. Chouliara, U Patras

Incident management and large-scale dynamic traffic modelling: The case of Melbourne, Australia – 8241647X

A. Torday, D. Triantafyllos, J. Aymami, TSS, Spain

12:30 – 14:00

9 *Transportation management*

Model predictive perimeter-control for large congested urban networks – 8051345X

J. Haddad, M. Ramezani, N. Geroliminis, Ecole Polytechnique Federale de Lausanne, Switzerland

Detection of shockwave propagation speed – 8050244P

Y. Stephanedes, UPatras and P. Stanitsas, University of Minnesota, USA

Incorporating intelligent transport systems into traffic models – 5032231X

I. Spyropoulou and G. Yannis, NTUA

*Road bridge maintenance management through optimization –
7162439X_STU06*

●P. Tsikas, UPatras

*Expert system for maintenance management of flexible pavements –
7162440X*

P. Lemis-Petropoulos and A. Chassiakos, UPatras

*Large-Scale Dynamic Traffic Assignment Model For Real-Time
Traveler Information Services – 8301549X*

I. Stamos, J. Salanova, E. Mitsakis, G. Aifadopoulou, CERTH–HIT

Lunch

15:00 – 16:00

10 ITS Logistics

ITS Logistics in Greece – 4211008X_LOG

K. Haniotis, ITS Hellas

Intelligent scheduling applications – 4211009X_LOG

K. Lakkas, Telenavis S.A.

*Intelligent cargo: Innovation in integrated freight transport
management – 4211010X_LOG*

A. Bizakis and G. Tsoukos, Tredit S.A.

Intelligent telephone and ITS in logistics – 4211011X_LOG

G. Vlahakis, Mpoint

16:00 – 17:30

11 ITS Infrastructure, communications and data management

***Intelligent traffic management in East Ring Road of Thessaloniki:
First two years – 5011129X***

K. Evaggelidis, TEI Serres; C. Papadopoulos, Macedonia-Thrace Administration; S. Taskaris, A. Moschopoulos, TRIAS S.A.; I. Politis, P. Papaioannou, AUTH

***User information system in East Ring Road of Thessaloniki –
4301525X***

K. Evaggelidis, TEI Serres; C. Papadopoulos, Macedonia-Thrace Administration; I. Stogios, DELCAN; P. Papaioannou, AUTH

***Intelligent barriers: RED-WINE innovative roadside system for road
safety – 4201307S***

V. Mizaras, Infotrip S.A. and D. Zagari, SISTRA srl, Italy

***A fuzzy regime-switching model for supporting travel information
devices – 4200706S***

L. Dimitriou, Transportation engineer; M. Karlaftis, A. Stathopoulos, NTUA

***Exact, real-time estimation of vehicle movement through telematics and
mobile mapping – 4211712X***

S. Steiros, F. Moschas, V. Saltoyanni, T. Triantafyllidis, UPatras

Driver-vehicle communications – 4051702X

M. Papakonstanti and A. Iliopoulos, TRAM S.A.

17:30 – 18:30

Awards

Closing remarks

END OF CONFERENCE