



4th International Congress on Transportation Research in Greece

28-30 May 2008
Hotel Divani Caravel
2, Vas. Alexandrou Avenue 16121
Athens, Greece

Conference Room ILISSOS

Final Programme

Wednesday 28/5/2008

9:00-11:00 – Opening Ceremony – OLYMPIA room

11:00-11:30 – Coffee Break

11:30- 13:30 – Session 1: Urban and Rural Traffic Management

Chair: M. Papageorgiou, A. Skabardonis

MODELING TRAVEL RATIOS FOR COMMUTING TIME RELATIVE TO WORK DURATION IN URBAN AREAS

M. Lydaki, *KTEA Heraklion-Lasithi*

M. Karlaftis, *NTUA*

APPLICATION OF THE THREE-PHASE THEORY IN GREEK FREEWAYS

M. Kontaratos, *NTUA*

D. Sermpis, *Athens Traffic Management Centre*

P. Chorianopoulos, *NTUA*

PERFORMANCE CRITERIA OF URBAN TRANSIT SYSTEMS IN MIDDLE-SIZE CITIES

L. Dimitriou, *NTUA*

D. Alexandropoulou, *NTUA*

N. Papachristou, *NTUA*

A. Stathopoulos, *NTUA*

EXAMINATION OF RED LIGHT ENFORCEMENT SYSTEMS

Th. Andrianos, *AUTh*

S. Basbas, *AUTh*

M. Pitsiava – Latinopoulou, *AUTh*

TRAFFIC CALMING MEASURES – INFRINGEMENT AND DESIGN

G. Nellas, *G. Nellas & Associates*

G. Andredakis, *Chalandri Municipality, Athens*

IMPACT ANALYSIS OF THE HAZARDOUS GOODS TRANSPORTATION THROUGH TUNNELS AND ALTERNATIVE ROUTES

E. Nathanail, *University of Thessaly*

E. Mplana, *Transportation Engineer (PhD)*

S. Zaxaris, *Mechanical Engineer*

N. Vagiokas, *Chemical Engineer*

13:30-14:30 – Break (lunch)



14:30-16:30 - Session 2: Transport Policy (I)

Chair: M. Pitsiava – Latinopoulou - J. Frantzeskakis

SETTING AND ACHIEVING ROAD SAFETY TARGETS IN EUROPE - A CRITICAL REVIEW

G. Yannis, *NTUA*
A. Laiou, *NTUA*
S. Vardaki, *NTUA*
G. Kanellaidis, *NTUA*

INVESTIGATION OF DAILY MOBILITY CHARACTERISTICS IN THE FRAMEWORK OF AN URBAN TRANSPORT PLAN

A. Tsoukala, *AUTH*
Ch. Taxiltaris, *AUTH*
G. Mintsis, *AUTH*
S. Basbas, *AUTH*

COHESION POLICY AND TRANSPORT: EXPERIENCES AND TRENDS

E. Gioti, *MA OP RAPT / HMT - Hellenic Ministry of Transport*
E. Zacharaki, *MA OP RAPT / HMT - Hellenic Ministry of Transport*

A METHODOLOGICAL FRAMEWORK FOR THE EVALUATION AND PRIORITIZATION OF MULTINATIONAL TRANSPORT PROJECTS: THE CASE OF EURO-ASIAN TRANSPORT LINKAGES

D. Tsamboulas, *NTUA*
A. Kopsacheili, *ATTIKO METRO S.A.*

SOCIAL MARKETING AND AWARENESS CAMPAIGNS AS TOOLS FOR MOBILITY MANAGEMENT

P. Papaioannou, *AUTH*
F. Mikiki, *AUTH*

16:30-16:45 – Coffee Break

16:45-18:45 - Session 3: Transport Policy (II)

Chair: C. Antoniou - E. Nathanail

TRANSPORT POLICY AND TERRITORIAL COHESION – THE CASE OF THE EGNATIA MOTORWAY IN NORTHERN GREECE

S. Seitanidis, *Egnatia Odos SA*

TOWARDS A CYCLE TOURISM STRATEGY IN GREECE. PLANNING CRITERIA FOR THE DEVELOPMENT OF THE GREEK BRANCH OF THE EUROPEAN CYCLE NETWORK- EUROVELO

Th. Vlastos, *NTUA*
D. Milakis, *NTUA*
E. Bakogiannis, *NTUA*

ONBOARD PASSENGER SURVEY ON PUBLIC BUS ROUTE CONNECTING THESSALONIKI SUBURBS

A. Papayannakis, *Public Transport Authority of Thessaloniki (SASTH)*

TACTILE GROUND SURFACE INDICATORS. EVALUATION OF GUIDELINES AND PRACTICES IN GREECE

A. Naniopoulos, *AUTH*
P. Tsalis, *AUTH*
P. Kalle, *Instructor of mobility*

19:00-20:00 - Special session in honor of Professor Anthony R. Tomazinis

Chair: G. Giannopoulos - I. Handanos



Thursday 29/5/2008

9:00-11:00 - Session 4: Freight Transport and Logistics (I)

Chair: V. Evmolpidis – D. Tsamboulas

IMPLEMENTATION OF RIVER INFORMATION SERVICES (RIS) IN EUROPE

M. Sattler, *Via donau- Österreichische Wasserstraßen-Gesellschaft mbH*

G. Schilk, *Via donau – Österreichische Wasserstraßen-Gesellschaft mbH*

CUSTOMER-DRIVEN RAIL-FREIGHT SERVICES ON THE BENELUX-TURKEY/GREECE CORRIDOR

A. Ballis, *NTUA*

T. Moschovou, *NTUA*

CONTAINER TERMINAL MANAGEMENT USING ICT: AN INNOVATIVE STATE-OF-THE-ART TOOL DEVELOPED FOR THE PORT OF THESSALONIKI

C. Antoniou, *TREDIT S.A.*

G. Tsoukos, *TREDIT S.A.*

A. Bizakis, *TREDIT S.A.*

C. Papadopoulos, *Thessaloniki Port Authority*

D. Tsitsamis, *Thessaloniki Port Authority*

INTRODUCING AUTOMATED TRUCK PLATOONS ON MOTORWAYS

M. Haberstroh, *RWTH Aachen University*

A. Gramatke, *RWTH Aachen University*

I. Isenhardt, *RWTH Aachen University*

ONTOLOGICAL FRAMEWORK FOR THE DANGEROUS GOODS TRANSPORTATION LOGISTIC CHAIN

M. Gemou, *CERTH/HIT*

E. Bekiaris, *CERTH/HIT*

11:00-11:30 – Coffee Break

11:30- 13:30 - Session 5: Freight Transport and Logistics (II)

Chair: G. Aifadopoulou – P. Papadakos

ADRIATIC-IONIAN SEA CORRIDOR: ESTIMATION OF ACTUAL AND LATENT DEMAND FOR FREIGHT TRANSPORT

E. Krassopoulou, *TREDIT S.A.*

H. Spiliopoulou, *TREDIT S.A.*

PLANNING AND SIMULATING YARD OPERATIONS AT THE PIRAEUS CONTAINER TERMINAL

E. Hadjiconstantinou, *Imperial College London*

N. L. MA, *Imperial College London*

ADVANCED INFORMATION AND COMMUNICATION TECHNOLOGIES INITIATIVES AIMING AT THE EFFICIENCY OF INTERMODAL TRANSPORT

Y. Tyrinopoulos, *CERTH/HIT*

C. Antoniou, *TREDIT S.A.*

ANALYZING THE EFFECT OF STOCHASTIC DEMAND FOR EMPTY CONTAINER REPOSITIONING ON REGIONAL DEPOT CAPACITY

N. Mittal, *The State University of New Jersey*

M. Boile, *The State University of New Jersey*

S. Theofanis, *The State University of New Jersey*

A. Baveja, *The State University of New Jersey*

SUPRALOG – METHODOLOGY, INDICATORS AND TOOLS TO INCREASE EUROPEAN COMPETITIVENESS AND SUSTAINABILITY

H. Lindstad, *Norwegian Marine Technology Research Institute (MARINTEK)*



DYNAMIC ECONOMETRIC ANALYSIS OF FREIGHT TRANSPORTATION FLOW GENERATION IN GREECE

Th. Tsekeris, *Centre for Planning and Economic Research (KEPE)*

E. Tsouma, *Centre for Planning and Economic Research (KEPE)*

S. Savva-Balfoussia, *Centre for Planning and Economic Research (KEPE)*

13:30-14:30 – Break (lunch)

14:30-16:30 – Session 6: Transport Safety and Security (I)

Chair: I. Gollias - E. Matsoukis

GPS APPLICATIONS FOR A CAUSAL MODELING OF DRIVER BEHAVIOR

N. Eliou, *University of Thessaly*

B. Profillidis, *Democritus Thrace University*

G. Botzoris, *Democritus Thrace University*

DRIVER COGNITIVE ENGINEERING APPLICATIONS

M. Panou, *CERTH/HIT*

E. Bekiaris, *CERTH/HIT*

G. Giannopoulos, *CERTH/HIT*

IMPACT OF INTELLIGENT SPEED ADAPTATION ON SPEEDING: A DRIVER SIMULATOR EXPERIMENT

I. Spyropoulou, *NTUA*

INVESTIGATION OF THE INFLUENCE OF THE MEDIAN TO THE RELATIVE RISK OF INTERURBAN ROAD SEGMENTS

G. Yannis, *NTUA*

C. Antoniou, *TREDIT S.A.*

E. Bournelaki, *Transport Engineer*

CORRELATION OF ROAD RISK WITH SELECTED INTERURBAN ROAD CHARACTERISTICS

G. Yannis, *NTUA*

C. Antoniou, *TREDIT S.A.*

G. Kapotsis, *Transport Engineer*

16:30-16:45 - Coffee Break

16:45-18:45 – Session 7: Transport Safety and Security (II)

Chair: G. Kanellaidis – Y. Tyrinopoulos

COST-BENEFIT ASSESSMENT OF THE INTENSIFICATION OF ROAD SAFETY ENFORCEMENT IN GREECE

G. Yannis, *NTUA*

E. Papadimitriou, *NTUA*

P. Evgenikos, *NTUA*

COMPARATIVE ANALYSIS OF ROAD TRAFFIC ACCIDENTS IN THE CITY OF KATERINI

A. Theodori, *AUTH*

Ch. Paschalidou, *AUTH*

M. Spandou, *AUTH*

G. Mintsis, *AUTH*

Ch. Taxiltaris, *AUTH*

S. Basbas, *AUTH*

SUPREME - A SYSTEMATIC APPROACH TOWARDS THE BEST AVAILABLE ROAD SAFETY ACTIVITIES FOR EUROPEAN MEMBER STATES

M. Winkelbauer, *Austrian Road Safety Board (KfV)*

E. Gaitanidou, *CERTH/HIT*

DESIGN AND EVALUATION OF ROAD SAFETY CAMPAIGNS - THE CAST RESEARCH PROJECT

I. Adamos, *University of Thessaly*

E. Nathanail, *University of Thessaly*

N. Eliou, *University of Thessaly*



MULTI-LAYER PRIORITIZING (MLP) OF ROAD SAFETY INTERVENTIONS AT INTERSECTIONS

E. Nathanail, *University of Thessaly*

N. Eliou, *University of Thessaly*

X. Kiritsis, *University of Thessaly*

21:00-24:00 Dinner

Friday 30/5/2008

9:00-11:00 – Session 8: Maritime Transport and Design of ports

Chair: A. Polydoropoulou - E. Sambrakos

EVALUATION OF EURO-MEDITERRANEAN FREE TRADE AGREEMENTS (EMFTA) EFFECTS ON THE DEVELOPMENT OF FREIGHT FLOWS OF GREECE INTO THE MEDITERRANEAN

M. Morfoulaki, *CERTH/HIT*

G. Aifadopoulou, *CERTH/HIT*

E. Chrisohoou, *CERTH/HIT*

E. Gagatsi, *CERTH/HIT*

AN ANALYSIS OF EXISTING FRAMEWORKS AND SYSTEMS FOR SUSTAINABLE PORT ENVIRONMENTAL MANAGEMENT

A. Alexopoulos, *University of the Aegean*

E. Gagatsi, *CERTH/HIT*

Y. Tyrinopoulos, *CERTH/HIT*

THE CONTAINERS FLOWS IN EASTERN MEDITERRANEAN: ANALYSIS OF “DEMAND” CHARACTERISTICS AND IMPACT FOR GREEK PORTS

G. Aifadopoulou, *CERTH/HIT*

G. Giannopoulos, *CERTH/HIT*

G. Charalampous, *CERTH/HIT*

OPTIMIZATION SEA-FREIGHT TRANSPORTATION: STATUS, TRENDS AND PERSPECTIVES

H. Zoghi, *Islamic Azad University of Karaj*

K. Siamardi, *Islamic Azad University of Karaj*

A. Paydar, *Islamic Azad University of Karaj*

POLISH SEAPORTS’ DEVELOPMENT IN THE LIGHT OF INTEGRATION AND GLOBALIZATION

A. Przybyłowski, *Gdynia Maritime University*

11:00-11:30 – Coffee Break

11:30-13:30 - Session 9: Air Transport

Chair: D. Dimitriou - V. Stefanis

ESTABLISHING CRITERIA AND PRIORITIES FOR ASSESSING THE IMPACT OF REDUCED SEPARATION MINIMA ON AIR TRAFFIC MANAGEMENT

K. Zografos, *TRANsportation Systems & LOGistics Laboratory (TRANSLOG)*

Ch. Tsanos, *TRANsportation Systems & LOGistics Laboratory (TRANSLOG)*

SLOT ANALYSIS, SLOT ALLOCATION VIOLATIONS AND AIRPORT PLANNING

V. Psaraki, *NTUA*

A. Katsaros, *NTUA*

AVIATION AND TOURISM INTERACTION: ITS FUTURE AND CONSTRAINTS

D. Dimitriou, *Hellenic Open University*

C. Thomas, *Centre for Air Transport and the Environment (CATE)*

AIRPORT DEMAND MANAGEMENT: HOW AND WHY?

M. Madas, *TRANsportation Systems & LOGistics Laboratory (TRANSLOG)*

K. Zografos, *TRANsportation Systems & LOGistics Laboratory (TRANSLOG)*



TYPICAL PEAK HOUR DESIGN OF AIRPORTS: ANALYSIS AND SPECIFICATION

V. Psaraki, *NTUA*

M. Tsagali, *NTUA*

13:30-14:30 – Break (lunch)

14:30-16:30 – Session 10: Rail Transport and Fixed route modes (I)

Chair: F. Koutroumpa - A. Kopsahili

CAPITALIZATION OF URBAN RAIL INVESTMENTS IN LAND VALUES: THE CASE OF ATHENS

A. Deloukas, *Attiko Metro S.A.*

ATHENS TRAMWAY: EVALUATION OF THE PROVIDED LEVEL OF SERVICE –RECOMMENDATIONS FOR IMPROVEMENT INTERVENTIONS

T. Gialama, *AUTh*

Ch. Pyrgidis, *AUTh*

A. Stathopoulos, *NTUA*

GSM-R AND PUBLIC COMMUNICATIONS IN RAILWAYS TUNNELS

A. Coraiola, *Sirti SpA*

EVALUATION OF ALTERNATIVE RAILWAY ALIGNMENTS IN ENVIRONMENTAL SENSITIVE AREAS

D. Dimitriou, *Hellenic Open University*

Ch. Syropoulos, *ERGOSE S.A.*

E. Panda, *ERGOSE S.A.*

IMPROVING THE EFFECTIVENESS OF RAIL FREIGHT TRANSPORT MANAGEMENT THROUGH ICT: AN INNOVATIVE STATE-OF-THE-ART TOOL

C. Antoniou, *TREDIT S.A.*

G. Tsoukos, *TREDIT S.A.*

A. Bizakis, *TREDIT S.A.*

D. Papadopoulos, *PROODOS S.A.*

16:30-16:45 – Coffee Break

16:45-18:45 - Session 11: Rail Transport and Fixed route modes (II)

Chair: G. Yannis – P. Kritikos

ADRIATIC-IONIAN RAIL CORRIDOR (AIRC) AN EFFICIENT TRAFFIC LINK FOR SOUTH-EAST EUROPE

N. Dujmović, *University of Zagreb*

I. Miloš, *Polytechnic of Rijeka/ Croatia*

L. Dujmović, *University of Zagreb*

THE ELECTRONIC CONSIGNMENT NOTE IN THE INTERNATIONAL CARRIAGE OF GOODS BY RAIL

K. Mitka, *Solicitor, Ph.D*

ACCIDENT STUDY OF CITY TRAMS IN ATHENS

G. Aifadopoulou, *CERTH/HIT*

D. Margaritis, *CERTH/HIT*

DATA DEVELOPMENT ANALYSIS (DEA) FOR THE EVALUATION OF PERFORMANCE OF EUROPEAN RAILWAYS

G. Botzoris, *Democritus Thrace University*

Th. Mitsogiannis, *Civil Engineer*

E. Nathanail, *University of Thessaly*

PASSENGER INTERCHANGE CHARACTERISTICS AND ATTITUDES IN PUBLIC TRANSPORT: THE CASE OF THE ATHENS TRAMWAY

M. Karyda, *University of the Aegean*

Ath. Roumboutsos, *University of the Aegean*

S. Kapros, *University of the Aegean*

Note: The names of the chair persons are in alphabetical order.