

CURRICULUM VITAE

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NATIONALITY : Greek

DATE OF BIRTH : September 29, 1953 (Thessaloniki, Greece)

EDUCATION

1959 - 1965 : 42nd elementary school of Thessaloniki.
1965 - 1971 : German secondary school of Thessaloniki.
1971 - 1976 : Diplom-Ingenieur degree studies in Electrical Engineering at the
Technische Universität München, Munich, Germany.
Specialisation on Control Systems Engineering.
June 1976 : Diploma thesis "Adaptive systems with recursive parameter
estimation" (honors).
April 1981 : Doktor-Ingenieur degree with the thesis "A hierarchical control
system for freeway traffic flow" (honors) from the Electrical
Engineering Faculty of the Technische Universität München,
Munich, Germany.

LANGUAGES

Greek (mother tongue), German (fluently), English (fluently), French (fluently), Italian (very good)

POSITIONS

- P1. April - May 1974 : Krauss-Maffei AG, Munich, Germany; Research and Development Department for magnetic suspension control systems of high speed trains: **Student Associate**.
- P2. Oct. - Nov. 1975 : Siemens AG, Munich, Germany; Research and Development Department for telecommunication satellites: **Student Associate**.
- P3. Oct. 1976 - Feb. 1982 : Technische Universität München, Munich, Germany; Lehrstuhl für Steuerungs- und Regelungstechnik (Chair of Automatic Control): **Teaching and Research Assistant**.
- P4. Feb. - Aug. 1982 : Politecnico di Milano, Milan, Italy; Dipartimento di Elettronica: **Visiting Professor**.
- P5. Aug. 1982 - May 1988 : Dorsch Consult Ingenieures. mbH, Munich, Germany; Department of Water Systems: **Free Associate**.
- P6. April - June 1985, April - June 1986, from 1987 to 1991 once a year : Ecole Nationale des Ponts et Chaussées (ENPC), Paris, France; Département des Sciences Mathématiques: **Visiting Professor**.
- P7. April - June 1985, June 1986 - Dec. 1997 : Institut National de Recherche sur les Transports et leur Sécurité (INRETS), Paris, France; Département Analyse et Régulation du Trafic : **Scientific Advisor**.
- P8. June 1988 - May 1994 : Technische Universität München, Munich, Germany; Faculty of Electrical Engineering and Information Technology: **Professor** (Extraordinarius, tenure position) of Automation.
- P9. April - Sept. 1993 : (Sabbatical semester) **Visiting Scholar** at (U.S.A):
- University of Massachusetts Lowell; Department of Civil Engineering (April 1993)
 - University of Southern California, Los Angeles; Department of Electrical Engineering (May/June 1993)
 - University of Minnesota, Minneapolis; Department of Civil and Mineral Engineering (June/July 1993)
 - University of California at Berkeley; Department of Electrical Engineering and Computer Science (August/September 1993).

- P10. January 1994 – August 2021 : Technical University of Crete, Chania, Greece; Department of Production Engineering and Management: **Professor and Director of the Dynamic Systems and Simulation Laboratory**.
- P11. August 1997 - January 1998 : (Sabbatical semester)
- **Visiting Professor** at Massachusetts Institute of Technology, Boston, U.S.A.; Department of Civil and Environmental Engineering (Aug.-Oct. 1997).
 - **Visiting Scholar** at University of California at Berkeley, U.S.A.; Department of Electrical Engineering and Computer Science (Nov. 1997 - Jan. 1998).
- P12. September 2000 - January 2001 : (Sabbatical semester)
- **Visiting Professor** at Massachusetts Institute of Technology, Boston, U.S.A.; Department of Civil and Environmental Engineering (Sept.-Nov. 2000).
 - **Visiting Scholar** at University of California at Berkeley, U.S.A.; Department of Electrical Engineering and Computer Science (Dec. 2000 - Jan. 2001).
- P13. April – August 2011 : (Sabbatical semester) **Visiting Scholar** at University of California at Berkeley, U.S.A.; Department of Electrical Engineering and Computer Science.
- P14. June – July 2018 : **Visiting Professor** at University of Rome La Sapienza, Italy; Department of Civil and Industrial Engineering.
- P15. 2018 - 2021 : **Distinguished Visiting Professor** at Tsinghua University, Beijing, China; School of Civil Engineering.
- P16. September 2021 - present : **Professor Emeritus** at Technical University of Crete, Chania, Greece; School of Production Engineering and Management, Dynamic Systems and Simulation Laboratory.
- P17. September 2021 - present : **Professor** (part-time) at Ningbo University, Ningbo, China; Faculty of Maritime and Transportation.

ACADEMIC, RESEARCH AND PROFESSIONAL ACTIVITIES

P1. Krauss-Maffei AG

Theoretical and practical contributions in the frame of the magnetic suspension control of TRANSRAPID.

P2. Siemens AG

Theoretical and practical contributions in the frame of development of telecommunication satellites.

P3. Technische Universität München

Teaching Activities:

- (1) Teaching Assistant for Classical Control Systems, Nonlinear Systems, Linear System Theory, and Optimal Control Systems.
- (2) Lectures on Optimal Control Systems.
- (3) Supervisor of 3 diploma theses and 6 semester theses.
- (4) Supervisor of student laboratory exercises on Systems Control.

Research Activities: (partially supported by the Federal Ministry of Transport (BMV) of W. Germany and by the German Research Foundation (DFG))

- (1) Freeway traffic modeling, identification, simulation, estimation, and control (B1, A1, A2, A4, A6, A9, A10, A12, A14, A17, BC1, BR1, C1, C3, C4, C5, C7, R2, R3).
- (2) Large scale system theory and applications: hierarchical optimisation, aggregation, model reduction, decentralized control, multilayer control (A3, A5, A7, A8, C2).
- (3) Multiprocessor systems, and realisation of control algorithms in microcomputer systems (A11, R4).
- (4) Optimal control systems.

P4. Politecnico di Milano

Teaching Activities:

Lectures on Applications of Automatic Control Concepts to Traffic Flow Modeling and Control (B2).

Research and Project Activities:

- (1) Development of optimal control strategies for combined sewer networks: Research project for Dorsch Consult IGmbH, Munich (A15, C6, R5).
- (2) Control of road traffic (A13, A18).

P5. Dorsch Consult IGmbH

Founder and director of a small engineering team for Automatic Control of Water Systems.

Teaching Activities:

- (1) Lectures on "Optimal Control and Filtering Theory" at Technische Universität München (1986).
- (2) Supervisor of one diploma thesis.

Research and Project Activities:

- (1) Design and implementation of real-time optimal control strategies for combined sewer networks. Application to the sewer networks of Munich and Frankfurt a. M. (A16, A21, A24, A25, A27, C9, C10, C11, C12, C14, R7, R10, R11, R19).
- (2) Optimal regulator design for water systems. Design and instrumentation of measurement, surveillance, and control systems for 7 detention basins in the combined sewer network of Munich with detention volumes ranging from 8.000 m³ to 100.000 m³ (A19, A22, R6, R8, R9, R12, R13, R15, R17).
- (3) Design and instrumentation of a measurement, surveillance, and control system for the river Isar in Munich (A30, C13, R14).
- (4) Rainfall-runoff models.
- (5) Development of optimal control strategies for generalized flow networks (A20, C8).
- (6) Optimal control of hydro power systems (A23).
- (7) Optimal control methods (A26).

P6. Ecole Nationale des Ponts et Chaussées

- (1) Lectures on Modeling and Control of Urban Traffic Systems.
- (2) Supervisor of student research projects.

P7. Institut National de Recherche sur les Transports et leur Sécurité

- (1) Series of seminars on practical aspects of modeling, identification, estimation, time-of-day control, and traffic-responsive control of freeway traffic, and on possible application to the traffic flow of Boulevard Périphérique in Paris.
- (2) Modeling, estimation and on-ramp control of freeway traffic flow with application to the Boulevard Périphérique and to the highways A1, A3 and A12:
 - **Overview** and discussion of existing methods (R16).
 - Development and validation of **macroscopic mathematical models**: META (Modèle d'Ecoulement du Trafic Autoroutier)(A29, A31, BC2, C16, R18).
 - Development and validation of **estimation** algorithms for traffic density (A28, C17).
 - Development of traffic-responsive **ramp metering** strategies for a single on-ramp: ALINEA (Asservissement linéaire d'Entrée Autoroutière) (A36).
 - Development and simulation testing of coordinated, traffic-responsive ramp metering strategies using LQ optimisation: METALINE (A32, BC3, C18, R20) and nonlinear optimal control methods (C22, C29).

- Field trials for local and coordinated ramp metering strategies (BC4, C15, C21, R21).
- (3) Development and simulation testing of coordinated optimal control strategies for traffic lights in **urban road networks**: control strategy CRONOS (C23, C33).
- (4) Application of **neural networks** to road network control (A51).
- (5) Supervisor of 2 doctoral theses.
- (6) Applications of **Image Processing Techniques** to traffic control problems. Contribution to the research project V2015 (INVAID II) of the European Commission in the frame of the R&D Programme ATT (Advanced Transport Telematics) (R32).
- (7) Series of seminars on Natural and Artificial Intelligence.

P8. Technische Universität München

Teaching and Academic Activities:

- (1) Lectures on
 - Classical Control Systems (for Mechanical Engineers)
 - Classical Control Systems (for Electrical Engineers)
 - Optimal Control and Filtering Theory (B3)
 - Multivariable Linear Control Systems
 - Graph Theory Methods Applied to Automation
 - Simulation Methods
 - Natural and Artificial Intelligence
- (2) Supervisor of 2 doctoral theses, 25 diploma theses, and 5 semester theses (thereof 13 theses together with research assistants, and 6 theses in cooperation with industrial firms and other external institutions). One of these theses was awarded the 1991 VDI-award for outstanding diploma theses.
- (3) Member of Professor Selection Committees of the Faculty of Electrical Engineering and Information Technology.

Research Activities:

- (1) Research project V1035 (CHRISTIANE) of the European Commission in the frame of the R & D Programme DRIVE (A33, A34, A35, A40, C19, C24, C27, C28, C41, O1, O2, R22, R23, R24, R25).
Scope: Modeling and control of traffic flow on **freeway networks** using variable route recommendation signs and ramp metering.
Funds: DM 350.000,- over three years (1989-1991)
- (2) Development, testing and comparison of **numerical methods for optimal control** problems (A46).
- (3) Development and simulation testing of moving strategies for **autonomous mobile objects** (e.g. robots) in a dynamic and stochastic environment (A42, A43, C30, C40).
- (4) Research projects Pa 428/2-1, Pa 428/2-2, and Pa 428/2-3 of the German Research Foundation (A38, C31, C35, C54, R26, R30).
Scope: Development of optimal control strategies for routing problems in **communication networks**.
Funds: DM 240.000,- over three years (1991-1994)

- (5) Development of control strategies for **sewer network flow** (A37, A41, C20).
- (6) Development of control strategies for **vehicle active suspension**; in cooperation with BMW AG, Munich.
- (7) Research project V2017 (EUROCOR) of the European Commission in the frame of the R&D Programme ATT (Advanced Transport Telematics) (A39, A54, BC8, C37, C42, C43, C44, C47, C48, C49, C51, C52, C57, C59, C63, C71, R28, R29, R33, R34, R36, R38, R39).
Scope: Integrated modelling and control of traffic flow in **corridor networks** with application and implementation in Paris and Amsterdam.
Funds: DM 340.000,- over three years (1992-1994)
- (8) Research project V2042 (QUO VADIS) of the European Commission in the frame of the R&D Programme ATT (Advanced Transport Telematics) (A45, A47, A49, A50, A57, C38, C46, C50, C53, C60, C65, R27, R35, R38, R40).
Scope: Application and **implementation of route guidance and driver information algorithms** to the **highway network** of Scotland and to a network in Aalborg, Denmark.
Funds: DM 370.000,- over three years (1992-1994)
- (9) Further activities in the area **traffic and transportation systems** (E1, E2, BC5, C32, C36, C39).
- (10) Sabbatical research project Pa 428/3-1 of the German Research Foundation (A48, C45).
Scope: Research in USA Universities on "**Control of complex traffic networks** via application of advanced control methods."
Funds: DM 22.000,- over 6 months (within 1993).

P9. Sabbatical Semester 1993

(a) University of Massachusetts Lowell

Joint research on **corridor traffic control** systems.

(b) University of Southern California

- Joint research on **artificial neural network** theory and applications.
- Short course on "Traffic Flow Modeling and Control and Intelligent Vehicle and Highway Systems (IVHS)" (together with Professor P. Ioannou) (R31).

(c) University of Minnesota

Joint research on **corridor traffic control** systems (A44).

(d) University of California at Berkeley

- Joint research on **freeway traffic modeling and control** with application to the I-880 freeway.
- Joint research on **automated highway systems**.
- Short course on "Traffic Flow Modeling and Control".

P10/P16. Technical University of Crete

Teaching and Academic Activities

- (1) Lectures on:
 - Dynamic Programming
 - Nonlinear Programming (B4, B6, B7)
 - Natural and Artificial Intelligence (A52, C55)

- Advanced Telematics for Road Transportation
- (2) Supervisor of 19 post-doctoral researchers, 21 doctoral theses, 30 master theses, and 57 diploma theses.
- (3) Examiner for 15 doctoral theses and 11 master theses.
- (4) Member of Professor Selection Committees of several Departments in various Universities.
- (5) Member of the Committees for Postgraduate Studies (1995-1997), for Public Relations (since 1995), for Undergraduate Studies (1999-2001) and for Strategic Planning (since 2011) of the Department of Production Engineering and Management.
- (6) Member of the Research Funds Committee of the Technical University of Crete (1996-2013).
- (7) Lecturer of the “Short Course on Dynamic Traffic Flow Modelling and Control” held on 3-7 May 1999; 29 May - 2 June 2000; 28 May - 1 June 2001; 27-31 May 2002; 9-13 June 2003; 20-24 September 2004; 17-21 July 2006; 21-25 July 2008; 19-23 July 2010; 8-12 October 2012; 3-7 November 2014, 14-18 November 2016, 19-23 November 2018, 8-19 February 2021 (online). Total participation: 330 persons from 35 countries (Australia 6, Austria 3, Belgium 12, Brazil 1, Canada 3, China 1, Croatia 2, Czech Republic 3, Denmark 1, Finland 10, France 4, Germany 49, Greece 64, Hungary 3, India 1, Iran 2, Ireland 4, Israel 4, Italy 38, Japan 1, S. Korea 5, Luxemburg 2, Mexico 1, Netherlands 38, Portugal 3, Russia 1, Slovenia 1, Spain 5, Sweden 26, Switzerland 20, Tanzania 1, United Arab Emirates 2, United Kingdom 9, U.S.A. 3, Yugoslavia 1).
- (7a) The same Short Course (or parts thereof) was also given at:
 - DHV, Amersfoort, The Netherlands, 11-12 October 2001.
 - Università degli Studi di Napoli “Federico II”, Napoli, Italy, 23-27 June 2003.
 - Institute of Automation, Chinese Academy of Sciences, Beijing, China 9-13 August 2010.
 - University of California at Berkeley, U.S.A., 6-10 June 2011.
 - Technical University of Braunschweig, Germany, 25-27 November 2015.
 - GIAN Course, Department of Electrical Engineering, Delhi Technological University, Delhi, India, 4-8 December 2017.
 - Technical University of Braunschweig, Germany, 6-9 March 2018.
 - Technical University of Braunschweig, Germany, 30 November – 4 December 2020 (online).
- (8) Representative of the Technical University of Crete at the Greek Central Committee for Admission of Students from Foreign Universities (1999-2006).
- (9) Member of the MO.DI.P. (Quality Assurance Unit) of Technical University of Crete (2009-2020).

Research Activities

- (1) Research project 02WA09374 of the German Federal Ministry for Research and Technology (BMFT) (A53, A58, A59, BC7, C61, C69, C75, C103, R40, R41).
Scope: Development of a **central control system for distributed retention reservoirs** with application and implementation to the sewer network Obere Iller.
Funds: DM 253.000,- over three years (1994-1997)
- (2) Various activities in the area of **traffic and transportation systems** that are not directly related to mentioned funded projects:
 - (2a) **Conference Proceedings** (E3).
 - (2b) **Ramp Metering** (A55, A119, A120, A121, A122, A137, A138, A181, BC25, BC27, BC29, C56, C79, C101, C128, C175, C182, C183, C185, C187, C190, C191, C193, C196, C221, C263, C264, C274, C293, O11, O12, R48, R57, R58, R108, R111, R114).

- (2c) **Macroscopic Traffic Flow Modelling** (A56, A64, A213, BC6, BC21, BC24).
- (2d) **Overviews** (A61, A74, A79, A86, A91, BC9, BC10, BC16, BC18, C62, C98, C107, C123, C129, C130, C134, C136, R47, R52, R63).
- (2e) **Dynamic Traffic Assignment** (A66, C96).
- (2f) **Route Guidance** (A60, A77, A95, C74, C92, C102, C105, C108, C110, C133, C143, C150, R53).
- (2g) **Merging and Mainstream Traffic Control** (A105, A112, A113, A115, A126, A131, A134, A164, BC23, BC26, C161, C162, C168, C176, C177, C181, C186, C188, C189, C194, C197, C198, C199, C201, C203, C205, C206, C208, C209, C220, C290, R152).
- (2h) **Real-time estimation** (A109, A117, A123, A143, A202, C155, C165, C173, C174, C179).
- (2i) **Integrated traffic control** (BC19, R66, R156).
- (2j) **Special issues** (S1, S2).
- (2k) **Book Reviews** (BR2, BR3).
- (2l) **Miscellaneous** (A129, A144, BC32, C148, C154, C204, O4, O14, R128, R129, R150).
- (2m) **Traffic Signal Control** (A118, A163, A186, A204, A226, C192, C239, C260, C261, C268, C277, C299, C301, C327, R46, R67, R84).
- (2n) **Microscopic Traffic Simulation** (R101).
- (2l) **Connected Automated Vehicle Traffic** (A224, C352)
- (3) Development, testing and comparison of **numerical methods for optimal control** problems (C58, C67, R41, R78, R146).
- (4) Research Project COMFORTABLE of the European Commission (DG VII) (C64, C78, R49).
Scope: Surveillance Tools for **Maritime Traffic**.
Funds: 40.000,- ECU over three years (1996-1998).
- (5) Research Project TR1017 (DACCORD) of the European Commission (DG XIII - Transport Telematics) (A65, A68, A70, A71, C66, C68, C70, C76, C77, C80, C83, C84, C85, C86, C87, C91, C93, C97, C99, R44, R54, R59, R60, R61).
Scope: **Coordinated Dynamic Traffic Management** with Applications to the Ile-de-France Network, the Ville de Paris Network, the Amsterdam Periurban Network, and the Venice-Padua Motorway.
Funds: 450.000,- ECU over three years (1996-1999).
- (6) Research Project TR1054 (TABASCO) of the European Commission (DG XIII - Transport Telematics) (A62, A63, A69, C72, C73, C81, C82, C83, C88, C90, O3, O5, O6, O7, R45, R50, R51).
Scope: **Integrated Urban Traffic Control** with Applications to the Networks of Glasgow and Belfast.
Funds: 141.000,- ECU over two years (1996-1998).
- (7) Research Project 26965 (DELPHI) of the European Commission (DG III - ESPRIT) (A67, A84, C133, R62, R63, R64, R68, R72, R73).
Scope: **Integration in Manufacturing** with sales forecasting.
Funds: 246.000,- ECU over two years (1998-2000).
- (8) Research Project CHANIASYN of the Greek Ministry for Research and Technology (EPET II, Programme SYN) (A85, A92, C94, C104, C106, O9, R69, R71, R75).

- Scope:** Central Real-Time Traffic Control in Urban Networks with application and implementation in the city of Chania.
Funds: 17.600.000 DRA over three years (1999-2001).
- (9) Research Project PENED of the Greek Ministry for Research and Technology.
Scope: Stochastic Control of Optical Systems for Observatories.
Funds: 16.000.000 DRA over two years (2000-2001).
- (10) Research Project OMNI (IST-1999-11250) of the European Commission (DG XIII), R&D Programme Information Society Technologies (C89, R70, R74).
Scope: Integrated architecture for urban traffic control and development of an internet information system with implementation in Chania
Funds: 140.000 € over three years (2000-2003) plus 26.000 € additional funds by the Greek Ministry for Research and Technology.
- (11) Research Project SMART NETS (IST-2000-28090) of the European Commission (DG XIII), R&D Programme Information Society Technologies (A73, A76, A89, BC11, BC20, C100, C109, C115, C120, C121, C124, C125, C126, C131, C144, C147, O8, R76, R77, R80, R82, R83, R85, R86, R87).
Scope: Implementation and Field-Evaluation of the Urban Traffic Control Strategy TUC in Southampton (U.K.), Munich (Germany) and Chania (Greece).
Funds: 430.000 € over 2.5 years (2001-2004) plus 85.000 € additional funds by the Greek Ministry for Research and Technology.
- (12) Research Project RHYTHM (IST-2000-29427) of the European Commission (DG XIII), R&D Programme Information Society Technologies (A78, A80, A83, A88, A93, A96, A99, A108, BC17, C111, C114, C116, C117, C122, C137, C138, C139, C140, C141, C142, C153, O10, R79, R81, R88, R90, R91, R93).
Scope: Motorway Traffic Surveillance and Control Employing Video Sensor Technology.
Funds: 246.000 € over 3 years (2001-2004) plus 47.000 € additional funds by the Greek Ministry for Research and Technology.
- (13) Research Project EYE IN THE SKY (IST-2000-29531) of the European Commission (DG XIII), R&D Programme Information Society Technologies.
Scope: Advanced Data Fusion for Traffic Monitoring and Prediction.
Funds: 88.374 € over 2.5 years (2001-2004) plus 15.500 € additional funds by the Greek Ministry for Research and Technology.
- (14) Research Project WWT & SYSENG (HPRN-CT-2001-00200) of the European Commission (DG Research), Human Potential Programme, Research Training Networks (B5, C112, C118, R89, R96, R97, R99, R102).
Scope: Getting systems engineering into regional wastewater treatment strategies.
Funds: 166.764 € over 4 years (2002-2006) plus 45.000 € additional funds by the Greek Ministry for Research and Technology.
- (15) Various research activities (A72, A75, A111, C113, C119, R56).
- (16) Research project EURAMP (IST-2004-507645) of the European Commission (DG INFSO), R&D Programme Information Society Technologies (A81, A82, A87, A90, A94, A98, A101, A102, A104, A106, A114, BC15, C127, C132, C145, C146, C149, C151, C152, C156, C163, R92, R94, R95, R98, R100, R103, R104, R105, R107, R109).
Scope: Ramp Metering for Motorway Networks.
Funds: 449.000 € over 3 years (2004-2007) plus 125.000 € additional funds by the Greek Ministry for Research and Technology.
- (17) Research project CONNECT of the European Commission (DG-TREN), FP6-2002-Transport.

- Scope:** Network of excellence for Coordination of concepts for new collective transport.
Funds: 8.400 € over 2 years (2004-2006) plus 1.500 € additional funds by the Greek Ministry for Research and Technology.
- (18) Education project ETNITE of the European Commission (DG EDUC), Leonardo da Vinci Programme.
Scope: European network for training and education in Intelligent Transportation Systems.
Funds: 15.500 € over 2.5 years (2004-2007).
- (19) Research project PYTHAGORAS of the Greek National Education Ministry (A97, A103, C158).
Scope: Development of an integrated motorway network control system and its evaluation via microscopic simulation.
Funds: 60.000 € over 1.5 years (2005-2006).
- (20) Research project PENED of the Greek Ministry for Research and Technology (A110, A116, A124, C157, C160, C167, C171, C184).
Scope: Development and evaluation of a new real-time traffic signal control strategy for urban road networks.
Funds: 45.000 € over three years (2005-2009).
- (21) Research project PENED of the Greek Ministry for Research and Technology (A125, C180).
Scope: Development and evaluation of a central flow control strategy for sewer networks with emphasis on special needs and potential applications in Greece.
Funds: 45.000 € over three years (2005-2009).
- (22) Impact assessment and control strategy development for **Variable Speed Limits on motorways**. Partly in co-operation with Atkins Transport Systems and the Highways Agency, UK (A107, BC22, C164, R106).
- (23) **Adaptive optimisation algorithms** for fine-tuning of control systems with applications (A100, A127, C159, C166, C169, C170, C172, C178).
- (24) Project ANTREOFF funded by the Mobility and Public Works Department of the Flemish Government (Belgium) (R110).
Scope: Offline application of the RENAISSANCE tool to the motorway network around Antwerp.
Funds: 33.610 € for 11 months (2007-2008).
- (25) Project NEARCTIS of the European Commission (DG INFSO), R&D Programme ICT (Information and Communication Technologies) (A128, A130, A149, A151, BC28, C207, C210, C211, C214, C233, C246, R112, R113, R115, R119).
Scope: Network of Excellence for Advanced Road Cooperative Traffic Management in the Information Society.
Funds: 307.000 € for 5 years (2008-2013) plus 15.000 € additional funds by the Greek Ministry for Research and Technology.
- (26) Project TUC Kifisias – Attiki Odos funded by Attiki Odos (C195, R115).
Scope: Application of the traffic signal control strategy TUC to the subnetwork Kifisias – Attiki Odos.
Funds: 42.000 € (plus VAT) for 1 year (2009-2010).

- (27) Project AGILE of the European Commission (DG INFSO), R&D Programme Networked Embedded and Control Systems (A157, BC33, C200, C202, C242, R117, R118, R125).
Scope: Development and applications of advanced adaptive automatic control methods.
Funds: 120.000 € for 3 years (2010-2013).
- (28) Research project HERACLEITUS II funded by the Greek Ministry of Education (A133, A160, A172, C212, C215, C217, C251).
Scope: Advanced Methods of **Traffic Flow Modelling and Control for Motorway Networks**.
Funds: 45.000 € for 3 years (2010-2013).
- (29) Research project ARCHIMEDES III-1 SMOOTH co-funded by the European Commission and the Greek Government, Ministry of Education (A152, A166, C216, C219, C228, C230, C235, R120, R124, R126, R132, R134, R137, R140).
Scope: Development of a **software system for automatic selection of macroscopic traffic models** for urban and interurban motorways.
Funds: 24.000 € over 3 years (2012-2014).
- (30) Research project ARCHIMEDES III-2: co-funded by the European Commission and the Greek Government, Ministry of Education (A145, C218, C236, C237, R121, R123, R127, R133, R139, R142).
Scope: Real time **public transport priority**.
Funds: 28.000 € over 3 years (2012-2014).
- (31) Research project ARCHIMEDES III-3 DIANA: co-funded by the European Commission and the Greek Government, Ministry of Education (C249).
Scope: Development of novel algorithms and a **decision support system for designing urban transport systems**.
Funds: 7.000 € over 3 years (2012-2014).
- (32) Project MCS-PERTH: funded by the Australian Road Research Board (ARRB Group) as a subcontract for Main Roads Western Australia (R122).
Scope: Modelling, configuration and simulation testing for **managed freeways pilot project** using a meso-model.
Funds: 80.000 € over 1 year (2012-2013).
- (33) Research project TRAMAN21: funded by the European Commission, European Research Council Executive Agency, Advanced Investigator Grant. (A132, A135, A136, A139, A140, A141, A142, A146, A147, A148, A150, A153, A154, A155, A156, A158, A159, A161, A162, A165, A167, A168, A169, A170, A171, A173, A175, A176, A178, A179, A180, A182, A183, A184, A185, A187, A189, A190, A191, A192, A193, A195, A196, A197, A198, A199, A200, A207, A209, BC30, BC31, C213, C222, C223, C224, C225, C226, C227, C229, C231, C232, C234, C240, C241, C243, C244, C245, C247, C248, C250, C252, C254, C255, C256, C257, C258, C259, C265, C266, C267, C269, C270, C272, C273, C275, C276, C278, C279, C280, C281, C283, C284, C285, C286, C287, C288, C289, C291, C294, C296, C297, C298, C299, C300, C307, C311, C312, O13, R128, R138, R143)
Scope: **Traffic management for the 21st century**.
Funds: 1.496.880 € over 5 years (2013-2018) plus 418.000 € additional funds by the Greek Ministry for Research and Technology.
- (34) Research project Local4Global: funded by the European Commission (DG Connect), R&D Programme Information and Communication Technologies (ICT). (A174, A177, A188, C238, C253, C268, C282, R131, R136, R141, R144, R145, R147, R148, R149)

Scope: Development, application, testing and evaluation of a generic methodology/system for globally optimising Technical Systems of Systems (TSoS) via local control actions.

Funds: 311.000 € over 3 years (2013-2016) plus 67.000 € additional funds by the Greek Ministry for Research and Technology.

- (35) Research project PADECOT: funded by the European Commission, Marie Skłodowska-Curie Individual Fellowships (MSCA-IF-2016) for Dr. Nikolaos Bekiaris-Liberis. (C292)

Scope: Partial differential equation model-based control of traffic flow.

Funds: 152.653 € over 2 years (2017-2019) plus 7.300 € additional funds by the Greek Ministry for Research and Technology.

- (36) Research project INFRAMIX: funded by the European Commission, Horizon 2020 Research and Innovation Action, Automated Road Transport (H2020-ART).(A194, C293, C302, R151, R153, R154, R155, R157, R158)

Scope: Road infrastructure concepts for mixed (manual and automated/connected) vehicle traffic flow.

Funds: 386.375 € over 3 years (2017-2020) plus 16.000 € additional funds by the Greek Ministry for Research and Technology

- (37) Research Project STOHOS: co-funded by the European Commission and the Greek Ministry of Education, Research and Religion.

Scope: Design of optimal vehicle movement on the motorways of the future.

Funds: 40.600 € over 2 years (2017-2019).

- (38) Research project TrafficFluid: funded by the European Commission, European Research Council Executive Agency, Advanced Investigator Grant. (A201, A203, A205, A206, A208, A210, A211, A212, A214, A215, A216, A218, A219, A220, A221, A222, A223, A225, A227, A228, A229, BC34, C302, C305, C306, C308, C309, C310, C313, C314, C315, C316, C317, C318, C319, C320, C321, C322, C323, C324, C325, C326, C328, C329, C330, C331, C332, C333, C334, C335, C336, C337, C338, C339, C340, C341, C342, C343, C344, C345, C346, C347, C348, C349, C350, C351)

Scope: Lane-free Artificial-Fluid Environment for Vehicular Traffic.

Funds: 2.495.500 € over 6 years (2019-2025) plus 2.000 € additional funds by the Greek Ministry for Research and Technology.

- (39) Research project FRONTIER: funded by the European Commission, Horizon 2020 Research and Innovation Action, Mobility for Growth (R158, R159).

Scope: Next generation traffic management for empowering CAV integration, cross-stakeholders collaboration and proactive multi-modal network optimization.

Funds: 299.250 € over 3 years (2021-2024).

P11. Sabbatical Semester 1997

(a) Massachusetts Institute of Technology

- Lecturer at the MIT Summer Professional Programme 1.10s on “Modeling and Simulation for Dynamic Transportation Management Systems”.
- Teaching of the graduate course “Traffic Networks: Flow Modeling and Control” (together with Professor I. Chabini).
- Joint research on traffic flow modeling, ramp metering, and route guidance systems.

(b) University of California at Berkeley

- Joint research on various issues related to traffic flow modeling and control.

- Invited lecture series on Traffic Flow Modeling and Control

P12. Sabbatical Semester 2000

(a) Massachusetts Institute of Technology

- Teaching of the graduate course “Dynamic Traffic Flow Modeling and Control”.
- Joint research on traffic flow modeling, ramp metering, and route guidance systems.

(b) University of California at Berkeley

- Research cooperation in ramp metering and urban network traffic control.

(c) Other Activities

- Lecturer of the Short Course "Traffic Flow Modeling and Control" (together with Prof. P. Ioannou) in the frame of the 3rd IEEE Intern. Conference on Intelligent Transportation Systems, Dearborn, Michigan, 1 October 2000.

P13. Sabbatical Semester 2011

- Cooperation within the project TOPL (Tools for Operations Planning)
- Lecturer of the Short Course “Dynamic Traffic Flow Modeling and Control“ with 26 participants (PhD students, professors, engineers) mainly from U.S.A. but also from Australia and Europe.

P14. University of Rome La Sapienza

- Holding of scientific seminars
- Research cooperation with the group of Prof. Gaetano Fusco

P15. Tsinghua University

- Delivery of scientific seminars
- Research cooperation with the group of Prof. Jianping Wu

P17. University of Ningbo

Teaching and Academic Activities

(1) Lectures on:

- Dynamic Traffic Flow Modelling and Control

Research Activities

- (1) Traffic Estimation and Control for Urban Networks with Connected Vehicles (A217)

MISCELLANEOUS

DISTINCTIONS/AWARDS

- 1971: Succeeded in the Examination for entering the faculty of Civil Engineering of the Aristotle's University of Thessaloniki; was offered a scholarship for being among the best ten (declined).
- 1971 - 1976: 5-year scholarship from the DAAD (German Academic Exchange Office) for university studies in W. Germany.
- 1983: Awarded the "Eugen Hartmann" prize by the Measurement and Control Society (GMR) of the Union of German Engineers (VDI).
- Fulbright Research/Lecturing Award (Aug. 1997 - Jan. 1998).
- IEEE Fellow 1999 (*"For contributions to the application of automatic control and optimization in transport systems and water networks"*), IEEE Control Systems Society.
- Award of the Hellenic Club of Writers, Athens (March 1999).
- Award of the Rotary Club of Chania (January 2005).
- Recipient of the 2007 "Outstanding ITS Research Award" by the IEEE Intelligent Transportation Systems Society *"for outstanding contributions to traffic flow modeling and control"*; presented on 14 October 2008 in the frame of the 11th Intern. IEEE Conference on Intelligent Transportation Systems, Beijing, China.
- Award by the Technical University of Crete in recognition of international distinctions for his research work (2009).
- The article by M. Papageorgiou and A. Kotsialos "Freeway ramp metering: an overview," IEEE Transactions on Intelligent Transportation Systems, vol. 3, no. 4, pp. 271–281, December 2002, won an award as one of the top 3 Best Survey Papers in the decade 2000-2009 in the journal (<http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6585827>).
- Gold Medal at the YEAR 2010 (Young European Arena of Research) competition (<http://www.year2010.fehrl.org>), Pillar: Mobility and Intermodality, to the PhD student Rodrigo Castelan Carlson for the article: Carlson, R.C., Papamichail, I., Papageorgiou, M., A local feedback controller for mainstream traffic flow control using variable speed limits.
- The PhD student Anastasia Spiliopoulou was among the 8 finalists (out of 66 submissions) for the same Pillar of YEAR 2010 for the article: Spiliopoulou, A., Papamichail, I., Papageorgiou, M.: Queue management techniques for metered freeway on-ramps.
- Recipient of the 2010 "Transition to Practice Award" by the IEEE Control Systems Society *"for the development and implementation of ramp metering algorithms, in particular at the Monash Freeway, Melbourne, Australia"*. The award was presented on 29 September 2011 in the frame of the 2011 IEEE Multi-Conference on Systems and Control, Denver, Colorado.
- Proclaimed Visiting Professor of the Faculty of Transport and Traffic Engineering of the University of Belgrade, Serbia, *"in profound appreciation for many years of significant leadership and outstanding scientific contributions"* (2010).
- 2011 IEEE ITS "Institutional Lead Award" for the Dynamic Systems and Simulation Laboratory (he has been heading since 1994) by the IEEE Intelligent Transportation Systems Society *"for outstanding contributions and successful implementations in traffic flow modeling and control"*. The award was presented on October 6, 2011, in the frame of the 14th Intern. IEEE Conference on Intelligent Transportation Systems, Washington, D.C.
- Best Paper Award for Pillar II (Transport, Mobility and Infrastructure) of Transport Research Arena (TRA 2012), Athens, Greece, 23-26 April 2012, for the paper by M. Keyvan Ekbatani, A. Kouvelas, I. Papamichail, M. Papageorgiou "Congestion Control in Urban Networks under Saturated Traffic Conditions via Feedback Gating."

- The ex-PhD student Anastasios Kouvelas was awarded the 2nd prize of the Best Dissertation Award 2012 of IEEE Intelligent Transportation Systems Society. The award was presented on 18 September 2012 in the frame of the 15th Intern. IEEE Conference on Intelligent Transportation Systems, Anchorage, Alaska.
- ERC (European Research Council) Advanced Investigator Grant for the project TRAMAN21 (Traffic Management for the 21st Century) (2013-2018).
- 2013: Fellow of IFAC (International Federation of Automatic Control) “*for seminal contributions to modelling, control and optimization of transport systems and water networks*”.
- Recipient of the “Highest Cited Author” Award by the Committee of Traffic Flow Theory and Characteristics of the TRB (Transportation Research Board). The award was presented at a “*Highest Cited Paper Ceremony Honoring Markos Papageorgiou*” during the 93rd TRB Meeting in Washington, D.C., on 14 January 2014.
- The ex-PhD student Mehdi Keyvan-Ekbatani was awarded the 2nd prize of the Best Dissertation Award 2014 of IEEE Intelligent Transportation Systems Society. The award was presented on 9 October 2014 in the frame of the 17th Intern. IEEE Conference on Intelligent Transportation Systems, Qingdao, China.
- Research Excellence Award by the Technical University of Crete (2014).
- Best Freeway Operations Paper in 2014 Award by the Transportation Research Board (TRB) Freeway Operations Committee for the paper by Faulkner, L., Dekker, F., Gyles, D., Papamichail, I., Papageorgiou, M. “Evaluation of HERO coordinated ramp metering installation at the M1/M3 Freeway in Queensland, Australia”; the paper was presented at the 93rd Annual Meeting of the Transportation Research Board, Washington, D.C., January 12-16, 2014. The award was presented at the 94th Annual Meeting of the Transportation Research Board, Washington, D.C., on 13 January 2015.
- Best Freeway Operations Paper in 2016 Award by the Transportation Research Board (TRB) Freeway Operations Committee for the paper by Spiliopoulou, A., Papageorgiou, M., Herrera, J.C., Muñoz, J.C. “Real-time merging traffic control at congested freeway off-ramp areas”; the paper was presented at the 95th Annual Meeting of the Transportation Research Board, Washington, D.C., January 10-14, 2016. The award was presented at the 96th Annual Meeting of the Transportation Research Board, Washington, D.C., on 10 January 2017.
- The paper by Spiliopoulou, A., Perraki, G., Papageorgiou, M., Roncoli, C.: “Exploitation of ACC systems towards improved traffic flow efficiency on motorways”, which was presented by A. Spiliopoulou at the 5th IEEE International Conference on Models and Technologies for Intelligent Transportation Systems (MT-ITS 2017), Naples, Italy, June 26-28, 2017, received the “Best Paper Presented by a Woman award”.
- Gold Medal and National Award of Operational Research 2018 by HELORS (Hellenic Society of Operations Research) “*in recognition of his outstanding contributions to the progress of Operations Research*”.
- Appointment as Distinguished Visiting Professor for 2018-2021 by Tsinghua University for the Department of Civil Engineering, Beijing, China, “*in recognition of his academic contribution*”. The appointment ceremony was held on September 27, 2018, at Tsinghua University in Beijing, China.
- IEEE Life Fellow (2019)
- The ex-PhD student Maria Kontorinaki was awarded the 2nd prize of the Best Dissertation Award 2018 of IEEE Intelligent Transportation Systems Society. The award was presented on 5

November 2018 in the frame of the 21st Intern. IEEE Conference on Intelligent Transportation Systems, Maui, Hawaii, U.S.A.

- Co-supervisor of Anahita Jamshidnejad, ex-PhD student at Delft University of Technology, The Netherlands, who won the 1st prize of the Best Dissertation Award 2018 of IEEE Intelligent Transportation Systems Society.
- Recipient (along with the TRAMAN21 Team) of the 2018 “Outstanding ITS Application Award” by the IEEE Intelligent Transportation Systems Society “*for contributions in Vehicle Automation and Communication Systems and Applications*”; presented on 5 November 2018 in the frame of the 21st Intern. IEEE Conference on Intelligent Transportation Systems, Maui, Hawaii, U.S.A.
- George N. Saridis Best Transactions Paper Award (Outstanding Research) 2019 by the IEEE ITS Society for the paper: N. Bekiaris-Liberis; C. Roncoli; M. Papageorgiou, “Highway Traffic State Estimation with Mixed Connected and Conventional Vehicles,” IEEE Transactions on Intelligent Transportation Systems, vol. 17, no. 12, pp. 3484-3497, Dec. 2016.
- (Second) ERC (European Research Council) Advanced Investigator Grant for the project TrafficFluid (Lane-free Artificial-Fluid Environment for Vehicular Traffic) (2019-2025).
- Recipient of the 2020 “IEEE Transportation Technologies Award”, which is an IEEE Technical Field Award involving seven IEEE Societies, “*for contributions to traffic flow modeling and operations*”; presented on 21 September 2020 in the frame of the 23rd Intern. IEEE Conference on Intelligent Transportation Systems, virtual.
- 1st prize of Best Conference Paper Award (among some 570 conference papers) for the paper: Cao, J., Hu, Y., Manolis, D., Zhang, S., Wang, Y., Guo, J., Papamichail, I., Papageorgiou, M., Zhang, L., Hu, J.: A Max Pressure approach to urban network signal control with queue estimation using connected vehicle data. 23rd IEEE Intern. Conference on Intelligent Transportation Systems (ITSC), September 20-23, 2020 (Virtual), pp. 612-619.
- The Young Researcher Prize “Matthew Karlaftis” of the 10th ICTR (International Congress on Transportation Research) was awarded to the PhD student Panagiotis Typaldos for the paper: Typaldos, P., Volakakis, V., Papageorgiou, M., Papamichail, I.: A Discrete Differential Dynamic Programming Approach for GLOSA Systems with Stochastic Signal Switching Times, 10th Intern. Congress on Transportation Research (ICTR), Rhodes, Greece, 2-3 September 2021. The award was presented on 3 September 2021, at the Closing Session of the Congress, see <https://www.scs.gr/ictr21-vraveio-matthaios-karlaftis/>
- Awarded the title of Professor Emeritus by the Technical University of Crete (October 2021).
- Awarded the honorary title “TUM Ambassador” by the President of the Technical University of Munich (TUM) in recognition of his research cooperation that “contributed to the international reputation of the university” (October 2021).
- Awarded an Honorary Doctorate by the School of Electrical and Computer Engineering of the Aristotle University of Thessaloniki (March 2023).
- The ex-PhD student Panagiotis Typaldos was a finalist for the Best Dissertation Award 2023 of IEEE Intelligent Transportation Systems Society.
- 2023: Fellow of the Asia-Pacific Artificial Intelligence Association (AAIA)
- 2023: Honorary Award by the Hellenic Institute of Transportation Engineers “*for his overall contribution to Transportation Science*”. The Award was presented at the 11th International Conference on Transportation Research, 20-22 September 2023, Heraklion, Greece.

- 2024: Appointed Academician of The International Academy for Systems and Cybernetic Sciences “*in recognition of outstanding contributions to research and practice in Systems and Cybernetic Sciences*”.
- The IFAC Young Author Award of the 17th IFAC Symposium on Control in Transportation Systems (CTS 2024) was awarded to his PhD student Niloufar Dabestani for the paper: “Dabestani, N., Typaldos, P., Papamichail, I., Papageorgiou, M.: Joint vehicle path planning for interruptible 1-D snake-like platoons and 2-D flocks in lane-free traffic, 7th IFAC Symposium on Control in Transportation Systems (CTS 2024), Ayia Napa, Cyprus, July 1-3, 2024”. The award was presented to her on 2 July 2024, during the Conference banquet.
- 2024: Elected Fellow of the Industry Academy of the International Artificial Intelligence Industry Alliance (AIIA).
- The ex-PhD students Milad Malekzadeh and Panagiotis Typaldos were finalists for the Best Dissertation Award 2024 of IEEE Intelligent Transportation Systems Society.
- 2024: Matthew Karlaftis Lifetime Achievement Award by the journal Transportation Research – Part C: Emerging Technologies “*In Recognition of Outstanding and Sustained Contributions to Transportation Systems and Emerging Technologies*”. The award was presented during the TRC-30: Conference for the 30th Anniversary of Transportation Research Part C, Heraklion, Greece, September 2-4, 2024.

Other Distinctions

- On the occasion of completing its first 10 years, IEEE Trans. on Intelligent Transportation Systems published in June 2010 a bibliographic analysis (<http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5467214>) for its 405 published articles. The article by M. Papageorgiou and A. Kotsialos "Freeway ramp metering: an overview" ranked 5th in ISI citations number. Both authors ranked 7th and 8th, respectively, in the top ten of authors with most citations per published article in the journal. Technical University of Crete ranked 7th in the top ten of institutions with most citations per published article in the journal.
- In 2010, the article "Wang, Y., Papageorgiou, M.: Real-time freeway traffic state estimation based on extended Kalman filter: a general approach" ranked 1st in citations over the last 5 years among all published articles of Transportation Research-Part B.
- Among all 66 submitted articles to the Freeway Operations Committee of the 89th Annual Meeting of the Transportation Research Board (2010), the 4 submitted articles of the Dynamic Systems and Simulation Laboratory ranked 1st to 4th.
- “Coordinated ramp metering for freeways” (M. Papageorgiou, I. Papamichail) was included in the Milestone Report "The Impact of Control Technology" (May 2011) of IEEE Control Systems Society as one out of 23 selected Success Stories in Control; second (extended) Edition 2015.
- Co-author of 4 out of the 25 most cited articles published in Transportation Research – Part C in the years 2008-2013.
- The article by Papageorgiou, M., Hadj-Salem, H., Blosseville, J.-M. “ALINEA: a local feedback control law for on-ramp metering”, published in Transportation Research Record 1320 (1991), pp. 58 – 64, is the most cited paper in the history of the TRB Committee on Traffic Flow Theory & Characteristics (TFTC). In recognition, the TFTC Committee organized on 19 December 2013 an honorary webinar “*to feature Prof. Markos Papageorgiou as one of the most influential authors of traffic flow theory and for his lifetime achievements*”.

- The PhD students Anastasia Spiliopoulou and Mehdi Keyvan-Ekbatani ranked in the Top 10 for the Best Early-Stage Researchers' Award in Road Transport Europe 2014, TRAVisions.
- Was invited for an interview on Traffic Modeling, Control and Optimization, Theory and Applications at the IEEE-ITS Podcast 24, which went online on 1 April 2015 at <http://itsp.cicei.com/?p=674>
- The number of citations to his publications in GoogleScholar exceeded the 10.000 mark (2015).
- The *IEEE Intelligent Transportation Systems Magazine* (vol. 7, No. 3, 2015, pp. 82-85) published an article dedicated to the Dynamic Systems and Simulation Laboratory.
- In a bibliographic analysis of highly cited papers on Intelligent Transportation Systems (ITS), published in IEEE Trans. on Intelligent Transportation Systems in April 2016 (<http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=7327232>), M. Papageorgiou and A. Kotsialos were included among the top-10 most productive authors of ITS h-classic documents with 2 (out of a total of 53) h-classic papers. As a consequence, Technical University of Crete was included in the top-10 of institutions with most ITS h-classic documents.
- An announcement entitled “World-First Technology Keeps Traffic Moving On The M80” was published in the website “Premier of Victoria (The Hon. Daniel Andrews MP)” of the Premier Minister of the State of Victoria (Australia) in July 2016, which refers to the cooperation of the State’s Authorities (VicRoads) with the Dynamic Systems and Simulation Laboratory for the application of innovative motorway traffic control systems, see <https://www.premier.vic.gov.au/world-first-technology-keeps-traffic-moving-m80>
- In a bibliographic analysis on Intelligent Transportation Systems (ITS), published in IEEE Trans. on Intelligent Transportation Systems in August 2016 (<http://ieeexplore.ieee.org/document/7426832/?arnumber=7426832&tag=1>), he was ranked 4th most productive author for that journal with 14 papers. Also, the article by M. Papageorgiou and A. Kotsialos, “Freeway ramp metering: an overview,” IEEE Transactions on Intelligent Transportation Systems, vol. 3, no. 4, pp. 271–281, December 2002 was ranked 10th most cited paper.
- In 2017, the article "Keyvan-Ekbatani, M., Kouvelas, A., Papamichail, I., Papageorgiou, M.: Exploiting the fundamental diagram of urban networks for feedback-based gating" ranked 1st in citations over the last 5 years among all published articles of Transportation Research - Part B.
- The PhD student Panagiotis Typaldos ranked 4th for the Best Early-Stage Researchers' Award in Road Transport Europe 2020, TRAVisions.
- The number of citations to his publications in GoogleScholar exceeded the 20.000 mark (2020).
- He ranked, in the 2020 Stanford University bibliometric study, which ranks the top 2 % of world’s researchers, # 17578 out of 186178 for his overall work; and # 13937 out of 190064 for his 2020 published work, i.e., he ranked, in both categories, within the upper 10 % of the top 2 % of world’s researchers.
- His ranking was improved in the 2021 Stanford University bibliometric study, reaching # 16741 for his overall work; and # 11410 for his 2021 published work.
- His ranking was improved in the 2022 Stanford University bibliometric study, reaching # 16414 for his overall work; and # 12738 for his 2022 published work.
- The paper ‘Chrysomallis, I., Troullinos, D., Chalkiadakis, G., Papamichail, I., Papageorgiou, M.: Deep reinforcement learning with implicit imitation for lane-free autonomous driving’ was selected in the shortlist of four papers nominated for the Best Paper Award of ECAI-2023 (26th European Conference on Artificial Intelligence). In 2023, ECAI had 391 articles accepted (out of 1631 articles submitted).

- His ranking in the 2023 Stanford University bibliometric study was # 15425 (out of 217099) for his overall work; and # 15425 (out of 223154) for his 2023 published work.

Rejected official offers for academic positions:

- Professorship (Ordinarius) of Traffic Control Systems and Automation at the Faculty of Traffic Science "Friedrich List", Technical University of Dresden, Germany (1992).
- Professorship (Ordinarius) of Automatic Control at the Faculty of Mechanical Engineering, Ruhr-Universität Bochum, Germany (1993).

REVIEWING AND EDITORSHIP

Reviewer for the Journals:

- Annals of Operations Research
- ASCE Journal of Environmental Engineering
- ASCE Journal of Transportation Engineering
- ASCE Journal of Water Resources Planning & Management
- Asian Journal of Control
- ASME Trans. Journal of Dynamic Systems, Measurement, and Control
- Automatica
- Automatisierungstechnik
- Autonomous Agents and Multi-Agent Systems
- Chinese Journal of Physics
- Computer-Aided Civil and Infrastructure Engineering
- Control Engineering Practice
- Environmental Software
- European Journal of Operational Research
- Frontiers of Information Technology & Electronic Engineering
- IEE Proceedings - Control Theory and Applications
- IEEE Trans. on Automatic Control
- IEEE Trans. on Automation Science and Engineering
- IEEE Trans. on Industrial Electronics
- IEEE Trans. on Intelligent Transportation Systems
- IEEE Trans. on Intelligent Vehicles
- IEEE Trans. on Robotics and Automation
- IEEE Trans. on Systems, Man and Cybernetics
- IEEE Trans. on Vehicular Technology
- IET Intelligent Transport Systems
- Information Sciences
- International Journal of Control
- International Journal of Modern Physics C
- International Journal of Systems Science

- ITS (Intelligent Transportation Systems) Journal
- Journal Européen des Systèmes Automatisés
- Journal of Advanced Transportation
- Journal of Applied Mathematics
- Journal of Engineering Manufacture
- Journal of Intelligent and Fuzzy Systems
- Journal of Intelligent and Robotic Systems
- Journal of Mechanical Engineering Science
- Journal of Multi-body Dynamics
- Journal of Rail and Rapid Transit
- Journal of Systems and Control Engineering
- Journal of Traffic and Transportation Engineering (English Edition)
- Journal of Transportation Planning and Technology
- Journal of Zhejiang University – Science A
- Large Scale Systems
- Mathematical and Computer Modelling
- Mathematical Modelling of Systems
- Mathematical Problems in Engineering
- Mathematical Programming
- Measurement
- Nonlinear Science and Numerical Simulation
- Operational Research - An International Journal
- Operations Research
- Optimal Control Applications and Methods
- Optimization and Engineering
- Physica A: Statistical Mechanics and its Applications
- Recherche-Transports-Sécurité
- Sensors
- Transportation Letters
- Transportation Research A
- Transportation Research B
- Transportation Research C
- Transportation Research Record
- Transportation Science
- Transport Policy
- Transport Reviews
- Vehicle System Dynamics
- Water Resources Management
- Water Resources Research
- Zentralblatt für Mathematik

Reviewer for the conferences:

- IEEE Systems, Man and Cybernetics Conferences
- VNIS (Vehicle Navigation & Information Systems) Conferences
- Annual Meetings of the Transportation Research Board
- IFAC Symposia on Transportation Systems
- IFAC World Congresses
- IEEE Conferences on Decision and Control
- IFAC Symposia on Large Scale Systems
- European Control Conferences
- Congresses of the Greek Society of Operations Research
- ISATA (Intern. Symposia on Automotive Technology and Automation)
- American Control Conferences
- ITS World Conferences
- World Conferences of the Transport Research Society
- IEEE Intern. Conferences on Intelligent Transportation Systems
- IEEE Intern. Conferences on Control Applications
- IEEE Mediterranean Conferences on Control and Automation
- IEEE Intern. Conferences on Information & Communication Technologies
- IEEE Intern. Conferences on Technology and Automation
- IFAC Workshops on Technology Transfer in Developing Countries
- IEEE Intelligent Vehicles Symposia
- IFAC Symposia on Robust Control Design
- International Symposia on Enhancing Highway Performance (ISEHP)

Reviewer for the Publishers:

- McGraw-Hill Book Company
- Carl Hanser Verlag
- Elsevier Science Ltd.
- Kluwer Academic Publishers
- Physica Verlag
- John Wiley & Sons Ltd.
- Institution of Engineering & Technology (IET)

Member of the Editorial Board for the Journals:

- Recherche-Transports-Sécurité (Revue de l'INRETS) (1990-1997)
- Transportation Research B (1992-1993)
- Transportation Research C (1993-1996), Associate Editor (1996-2005), Editor-in-Chief (2005-2012), Scientific Council member (since 2020)
- Journal of Systems and Control Engineering (1998-2001)
- Transport Policy (1999-2008)
- ITS Journal: Computing, Communications and Transportation (since 2000)

- Journal of Cooper@tive Tr@nsportation Dyn@mics (internet journal: www.cooperative-transportation-dynamics.org) (since 2001)
- Operational Research: An International Journal (since 2001)
- IEEE Transactions on Intelligent Transportation Systems (Associate Editor) (2003-2007)
- IEEE Control System Society, Conference Editorial Board (Associate Editor) (2003-2009)
- International Review of Automatic Control (IREACO) (since 2008)
- Transportation Research Procedia (TRPRO) (since 2014).

COMMITTEES AND MEMBERSHIPS

- Member of the Technical Chamber of Greece (TEE) (since 1977), the Union of German Engineers (VDI) (1982-1994), the German Research Society for Highways and Traffic (1990-1994).
- Working Group 1.2.4 on Flow Control of the Abwassertechnische Vereinigung (ATV) of Germany (1989-1993).
- IEEE Member (since 1982), Senior Member (1990), Fellow (1999), Life Fellow (2019).
- Committee on Traffic Flow Theory and Characteristics of the Transportation Research Board, National Research Council (U.S.A.) (1994-2013, 2016-2022).
- Daimler Chrysler Circle Member Group (1997-1999).
- National representative of Greece in the Programme Committee for Sustainable Transport of the 6th Framework Programme of the European Commission (2004-2006).
- National expert of Greece in the Committee Cooperation-Transport-Aeronautics of the 7th Framework Programme of the European Commission (2009-2010).
- National Committee (for the area of Transportation) in charge of specifying the actions of the funding scheme ESPA (for Research, Technological Development, Innovation, Large-scale Research Infrastructures) (2008).
- EURO Working Group on Transportation Systems (since 1991); member of the Scientific Board (since 2011).
- IFAC Technical Committee on Large Scale Systems (since 1997).
- IFAC Technical Committee on Transportation Systems (since 1994). Vice-Chairman (1994-1999) and Chairman (1999-2005).
- International Review Committee for TRAIL (The Netherlands Research School for Transport, Infrastructure and Logistics) (since 1997).
- Scientific Advisory Board of the Transumo (Transition Sustainable Mobility) Research Funding Program, The Netherlands (2005-2010).
- Hellenic Operational Research Society (HELORS) (since 1999).
- Greek Society of Transportation Engineers (since 2002).
- Working Group “Automation in Road Transport” of the iMobility Forum (since 2012).
- Member of the Committee of Traffic Issues of the Municipality of Chania (since 2014).
- Member of the Regional Council for Research and Innovation for Crete (since 2017).

- Member of the General Assembly of the Greek Foundation of Research and Innovation (ELIDEK) (2017-2020).
- Member of the Scientific Advisory Board of PTV Group (2020-2021).
- Member of the Committee on Sustainable Urban Mobility Plan of the Municipality of Chania (since 2019).
- Member of IEEE ITS Society Awards and Long-term Planning Committee (since 2022).
- Representative of IEEE at the Elmer A. Sperry Award committee (since 2023).

SCIENTIFIC CONFERENCES

Organizer of:

- 1st Meeting of the EURO/IFORS Working Group on Urban Traffic and Transportation, Landshut, Germany, October 1 - 3, 1992 (together with Prof. H. Keller).
- 8th IFAC/IFIP/IFORS Symposium on Transportation Systems, Chania, Greece, June 16-18, 1997.
- 1st Symposium on Management of Future motorway and urban Traffic Systems (MFTS 2016), Chania, Greece, June 2-3, 2016.

Member of the International Program Committee for the conferences:

- IFAC Symposium on Control, Computers, Communications in Transportation, Paris, France, September 19 - 21, 1989.
- DRIVE Conference, Brussels, Belgium, February 4 - 6, 1991.
- 7th EURO/IFORS Summer Institute, on Urban Traffic Management, Cetraro, Italy, June 21 - July 7, 1991.
- ATS '93 (Automazione e sistemi di trasporto - Convegno Associazione Nazionale Italiana per l'Automazione), Trieste, Italy, June 25, 1993.
- 2nd IEEE Mediterranean Symposium on New Directions in Control & Automation, Chania (Crete), Greece, June 19 – 22, 1994.
- TRISTAN II (Triennial Symposium on Transportation Analysis), Capri, Italy, June 23 - 28, 1994.
- 7th IFAC Symposium on Transportation, Tianjin, PR China, August 24-26, 1994.
- 10th National Congress of the Greek Society of Operations Research on Management of SME in Front of 2000, Chania, Greece, November 10-12, 1994.
- 4th Intern. ASCE Conference on Applications of Advanced Technologies in Transportation Engineering, Capri, Italy, June 27-30, 1995.
- IFAC/IFORS/IMACS Symposium LSS '95 on Large Scale Systems Theory and Applications, London, U.K., July 11 - 13, 1995.
- 3rd IEEE Mediterranean Conference on Control and Automation, Limassol, Cyprus, July 11-13, 1995.
- 28th ISATA (Intern. Symposium on Automotive Technology and Automation), Stuttgart, Germany, September 11-15, 1995.
- 3rd Meeting of the EURO Working Group on Transportation, Barcelona, Spain, September 27-29, 1995.

- 4th IEEE Mediterranean Symposium on New Directions in Control & Automation, Chania, Greece, June 10-14, 1996.
- 4th Meeting of the EURO Working Group on Transportation, Newcastle, U.K., 9-11 September 1996.
- 5th Meeting of the EURO Working Group on Transportation, Budva, Yugoslavia, 15-16 September 1997.
- 9th Mini EURO Conference on Fuzzy Sets in Traffic and Transport Systems, Budva, Yugoslavia, 17-19 September 1997.
- World Manufacturing Congress (WMC'97), Auckland, New Zealand, November 18-21, 1997.
- 31st ISATA (Intern. Symposium on Automotive Technology and Automation), Düsseldorf, Germany, June 2-5, 1998.
- TRISTAN III (Triennial Symposium on Transportation Analysis), San Juan, Puerto Rico, June 17-23, 1998.
- 1998 (3rd) European Robotics, Intelligent Systems and Control Conference, Athens, Greece, June 22-24, 1998.
- World Conference of the Transport Research Society, Antwerpen, Belgium, July 12-17, 1998.
- IFAC Symposium on Large Scale Systems Theory and Applications, Patras, Greece, July 15-17, 1998.
- 5th IFAC Symposium on Low Cost Automation, Shenyang, P.R. China, September 8-10, 1998.
- European Control Conference ECC'99, Karlsruhe, Germany, August 31-September 3, 1999.
- World Manufacturing Congress (WMC'99), Newcastle-upon-Tyne, United Kingdom, September 27-30, 1999.
- Modelling and Management in Transportation, Poznan and Krakow, Poland, October 12-16, 1999.
- 9th IFAC Symposium on Transportation Systems, Braunschweig, Germany, June 13-15, 2000.
- 8th IEEE Mediterranean Conference on Control & Automation (MED 2000), Rio, Greece, July 17-19, 2000.
- 8th Meeting of the EURO Working Group on Transportation, Rome, Italy, 11-14 September 2000.
- 3rd IEEE Conference on Intelligent Transportation Systems, Dearborn, Michigan, October 1-3, 2000.
- 13th National Conference of the Greek Society of Operations Research on "Transport and New Technologies", Athens, Greece, November 30 - December 2, 2000.
- IFAC Workshop on Automatic Systems for Building the Infrastructure in Developing Countries (DECOM-TT 2001), Ohrid, FYROM, May 21-23, 2001.
- IFAC Conference on Control Applications in Marine Systems, Glasgow, Scotland, 18-20 July 2001.
- 3rd World Manufacturing Congress (WMC 2001), New York, September 24-27, 2001.
- 6th IFAC Symposium on Cost Oriented Automation, Düsseldorf, Germany, October 8-10, 2001.
- 14th National Conference of the Greek Society of Operational Research on "Regional Development", Xanthi, Greece, 1-3 November 2001.
- 1st Intern. Congress on Transportation Research in Greece, Athens, Greece, 21-22 February 2002.
- 10th Meeting of the EURO Working Group on Transportation, Bari, Italy, 10-12 June, 2002.

- The International Conference Dedicated to the 65-th Anniversary of B.N. Pshenichnyi (1937-2000), Kiev, Ukraine, June 25-28, 2002.
- XV IFAC World Congress, Barcelona, Spain, July 21-26, 2002.
- 5th IEEE Intern. Conference on Intelligent Transportation Systems, Singapore, September 3-6, 2002.
- 15th National Conference of the Greek Society of Operational Research on “Employment, Job Flow and Operational Research”, Tripolis, Greece, 31 October - 2 November 2002.
- Workshop on Traffic Modeling: Trends and Challenges, Sitges, Spain, June 2-4, 2003.
- 2003 IEEE Intern. Conference on Control Applications, Istanbul, Turkey, 23-25 June 2003.
- IFAC Workshop on Automatic Systems for Building the Infrastructure in Developing Countries (Knowledge and Technology Transfer) (DECOM-TT 2003), Istanbul, Turkey, 27-28 June 2003.
- 10th IFAC Symposium on Control in Transportation Systems, Tokyo, Japan, August 4-6, 2003.
- 3rd Triennial Intern. Conference on Applied Automatic Systems, Ohrid, FYROM, September 18-20, 2003.
- 6th IEEE Intern. Conference on Intelligent Transportation Systems, Shanghai, PR China, October 12-15, 2003.
- 2nd Intern. Congress on Transportation Research in Greece, Athens, Greece, 22-23 February 2004.
- 2004 IEEE Intern. Conference on Networking, Sensing and Control, Taipei, Taiwan, March 21-23, 2004.
- 2004 American Control Conference, Boston, Massachusetts, June 30-July 2, 2004.
- 10th World Conference on Transportation Research, Istanbul, Turkey, 4-8 July 2004.
- 10th IFAC Symposium on Large Scale Systems, Osaka, Japan, 26-28 July 2004.
- 1st Intern. Conference on Informatics in Control, Automation and Robotics, Setúbal, Portugal, 25-28 August 2004.
- 2nd Intern. Symposium “Networks for Mobility”, Stuttgart, Germany, September 2004.
- 2004 IEEE Conference on Decision and Control, Paradise Island, Bahamas, December 14-17, 2004.
- 2005 IEEE Intern. Conference on Networking, Sensing and Control (ICNSC), Tucson, Arizona, March 19-22, 2005.
- 2005 American Control Conference, Portland, Oregon, June 8-10, 2005.
- 13th IEEE Mediterranean Conference on Control and Automation (MED-05), Limassol, Cyprus, June 27-29, 2005.
- XVI IFAC World Congress, Prague, Czech Republic, 4-8 July 2005.
- 10th Meeting of the EURO Working Group on Transportation, Poznan, Poland, September 13-16, 2005.
- Workshop on Traffic Modelling: Traffic Behaviour and Simulation, Sedona, Arizona, September 18-21, 2005.
- 5th IMACS Symposium on Mathematical Modelling, Vienna, Austria, February 8-10, 2006.
- 2nd IEEE Conference on Information and Communication Technologies: from Theory to Applications (ICTTA '06), Damascus, Syria, 24-28 April 2006.
- Traffic and Road Safety Scientific Conference, Ankara, Turkey, 17-19 May 2006.
- 3rd Intern. Congress on Transportation Research in Greece, Thessaloniki, Greece, 11-12 May 2006.

- 2006 American Control Conference, Minneapolis, Minnesota, June 14-16, 2006.
- Conference on “Informatics in Science Knowledge”, Varna, Bulgaria, 28-30 June 2006.
- 11th IFAC Symposium on Control in Transportation Systems (CTS 2006), Delft, The Netherlands, August 29-31, 2006.
- 11th Meeting of the EURO Working Group on Transportation, Bari, Italy, 27-29 September 2006.
- 3rd Intern. Symposium “Networks for Mobility”, Stuttgart, Germany, 5-6 October 2006.
- Intern. Congress on Motor Vehicles and Transportation, Timisoara, Romania, 15-17 November 2006.
- 45th IEEE Conference on Decision and Control, San Diego, California, December 13-15, 2006.
- Symposium on Formal Methods for Railway and Automotive Systems, Braunschweig, Germany, 24-25 January 2007.
- TRISTAN VI (Triennial Symposium on Transportation Analysis), Bentota, Sri-Lanka, 10-15 June 2007.
- European Control Conference (ECC '07), Kos, Greece, 2-5 July 2007.
- 2007 American Control Conference, New York City, USA July 11-13, 2007.
- 11th IFAC Symposium on Large Scale Complex Systems, Gdansk, Poland, July 23-25, 2007.
- Intern. Conference on Transportation and Logistics Integrated Systems, Krakow, Poland, 11-12 October 2007.
- 3rd IEEE Intern. Conference on Information & Communication Technologies: From Theory to Applications (ICTTA'08), Damascus, Syria, April 7-11, 2008.
- 10th Intern. Conference on Application of Advanced Technologies in Transportation, Athens, Greece, May 27-31, 2008.
- 4th Intern. Congress for Transport Research in Greece, Athens, Greece, 27-31 May 2008.
- 2008 American Control Conference, Seattle, Washington, June 11-13, 2008.
- Intern. Trade and Freight Transportation Conference, Ayia Napa, Cyprus, 1-3 September 2008.
- 3rd Intern. Symposium on Transport Simulation (ISTS 2008), Queensland, Australia, August 6-8, 2008.
- 4th Intern. Symposium “Networks for Mobility”, Stuttgart, Germany, 25-26 September 2008.
- Symposium on Formal Methods for Automation and Safety in Railway and Automotive Systems (FORMS/FORMAT 2008), Budapest, Hungary, 9-10 October 2008,
- 47th IEEE Conference on Decision and Control, Cancun, Mexico, December 9-11, 2008.
- 6th Symposium on Mathematical Modelling, Vienna, Austria, February 11-13, 2009.
- Intern. Conference on Models and Technology for Intelligent Transportation Systems, Rome, Italy, 22-23 June 2009.
- 12th IFAC Symposium on Control in Transportation Systems (IFAC-CTS'09), Redondo Beach, California, September 2-4, 2009.
- 13th Meeting of the EURO Working Group on Transportation, Padua, Italy, September 23-25, 2009.
- 6th IFAC Intern. Workshop on Knowledge and Technology Transfer in/to Developing Countries: Automation and Infrastructure (DECOM-TT 2009), Ohrid, FYROM, September 26-29, 2009.
- IX National Conference with International Participation ETAI 2009, Ohrid, FYROM, September 26-29, 2009.
- 2009 Conference on Applied Automatic Systems, Ohrid, FYROM, September 26-29, 2009.

- Intern. Conference on the University in the 21st Century: Vision, Problems and Perspectives, Athens, Greece, 23-26 April 2010.
- TRISTAN VII (Triennial Symposium on Transportation Analysis), Tromso, Norway, June 20-25, 2010.
- ICNPAA 2010 World Congress: 8th Intern. Conference on Mathematical Problems in Engineering, Aerospace and Sciences, Sao Jose dos Campos, Brazil, June 30-July 3, 2010.
- Summer Meeting of the Transportation Research Board Committee on Traffic Flow Theory and Characteristics, Annecy, France, 7-9 July 2010.
- 10th Intern. Conference of Chinese Transportation Professionals (ICCTP 2010), Beijing, China, August 4-8, 2010.
- 13th Intern. IEEE Conference on Intelligent Transportation Systems (ITSC 2010), Madeira Island, Portugal, September 19-22, 2010.
- 5th Intern. Congress for Transportation Research, Volos, Greece, 26-28 September 2010.
- 4th Intern. Symposium “Networks for Mobility”, Stuttgart, Germany, September 30-October 1, 2010.
- Intern. Conference on Automatics and Informatics '10, John Atanasoff Society of Automatics and Informatics, Sofia, Bulgaria, 3-7 October 2010.
- 2010 IEEE Intern. Conference on Systems, Man, and Cybernetics (SMC 2010), Istanbul, Turkey, 10-13 October 2010.
- Symposium on Formal Methods for Automation and Safety in Railway and Automotive Systems (FORMS/FORMAT 2010), Braunschweig, Germany, 2-3 December 2010.
- 2nd Intern. Conference on Models and Technologies for Intelligent Transportation Systems, Leuven, Belgium, 22-24 June 2011.
- The 2011 Intern. Workshop on Intelligent Transportation Systems and Applications (ITSA 2011), Crete, Greece, June 28-30, 2011.
- Intern. Conference on Transportation Information and Safety 2011, Wuhan, China, June 30-July 2, 2011.
- 14th Meeting of the EURO Working Group on Transportation, Poznan, Poland, September 6-9, 2011.
- Intern. Conference on Intelligent Transportation Systems (ITS 2011), Patras, Greece, 3-4 October 2011.
- 7th Symposium on Mathematical Modelling (MATHMOD), Vienna, Austria, February 15-17, 2012.
- 2012 IEEE Intern. Conference on Networking, Sensing and Control (ICNSC), Beijing, China, April 11-14, 2012.
- 4th Transport Research Arena (TRA 2012), Athens, Greece, 23-26 April 2012.
- 5th Intern. Workshop on Freight Transportation and Logistics (ODYSSEUS 2012), Mykonos Island, Greece, May 21-29, 2012.
- 2012 IEEE Intern. Conference on Vehicular Electronics and Safety (ICVES'12), Istanbul, Turkey, July 24-27, 2012.
- Federated Conference on Computer Science and Information Systems – Workshop on Information Technologies for Logistics, Wroclaw, Poland, September 9-12, 2012.
- 15th Meeting of the EURO Working Group on Transportation (EWGT 2012), Paris, France, September 10-13, 2012.
- 13th IFAC Symposium on Control in Transportation Systems (CTS2012), Sofia, Bulgaria, September 12-14, 2012.

- 6th Intern. Symposium “Networks for Mobility”, Stuttgart, Germany, 27-28 September 2012.
- 10th IEEE Intern. Conference on Networking, Sensing and Control (ICNSC13), Paris, France, April 10-12, 2013 (Program Co-Chair).
- TRISTAN VIII (Triennial Symposium on Transportation Analysis), San Pedro de Atacama, Chile, June 9-14, 2013.
- 2nd Intern. Conference on Transportation Information and Safety (ICTIS2013), Wuhan, China, June 28 – July 1, 2013.
- 16th Meeting of the EURO Working Group on Transportation (EWGT 2013), Porto, Portugal, September 3-6, 2013.
- 2nd Federated Conference on Computer Science and Information Systems – Workshop on Information Technologies for Logistics, Krakow, Poland, September 8-11, 2013.
- IFAC Workshop on Advances in Control and Automation Theory for Transportation Applications, Istanbul, Turkey, 19-20 September 2013.
- 2nd Intern. Symposium & 24th National Conference of the EEEE (Hellenic Operational Research Society) on Operational Research, Athens, Greece, September 26-28, 2013.
- Intern. Conference on Automatics and Informatics, John Atanasoff Society of Automatics and Informatics, Sofia, Bulgaria, 3-7 October 2013.
- 16th Intern. IEEE Conference on Intelligent Transportation Systems (ITSC 2013), The Hague, The Netherlands, 6-9 October 2013.
- IEEE Intern. Conference on Systems, Man, and Cybernetics (SMC 2013), Manchester, U.K., October 13-16, 2013.
- 6th Congress on Transport Research in Greece, Thessaloniki, Greece, 17-18 October 2013.
- 3rd Intern. Conference on Models and Technologies for Intelligent Transportation Systems, Dresden, Germany, December 2-4, 2013.
- Intern. Symposium on Traffic Simulation & Workshop on Traffic Data Collection and its Standardisation, Ajaccio, Corsica (France), June 1-4, 2014.
- Intern. Conference on Engineering and Applied Sciences Optimization (OPTI 2014), Kos Island, Greece, 4-6 June 2014.
- Intern. Conference on Automatic Control Theory and Application (ACTA 2014), Bangkok, Thailand, 17-19 June 2014.
- 3rd HELORS Intern. Symposium and the 25th National Conference on Operational Research, Volos, Greece, June 26-28, 2014.
- 17th Meeting of the EURO Working Group on Transportation (EWGT 2014), Seville, Spain, July 2-4, 2014.
- IEEE Intern. Conference on Systems, Man, and Cybernetics (SMC 2014), San Diego, California, October 5-8, 2014.
- 17th Intern. IEEE Conference on Intelligent Transportation Systems (ITSC 2014), Qingdao, China, October 8-11, 2014.
- 11th Intern. Congress on Advances in Civil Engineering (ACE 2014), Istanbul, Turkey, 21-25 October 2014.
- 1st Intern. Conference on Vehicle Technology and Intelligent Transport Systems (VEHITS), Lisbon, Portugal, 20-22 May 2015.
- 4th Intern. Conference on Models and Technologies for Intelligent Transportation Systems (MT-ITS), Budapest, Hungary, 3-5 June 2015.
- 4th Intern. Symposium and 26th National Conference on Operational Research, Chania, Greece, June 4-6, 2015.

- 3rd Intern. Conference on Transportation Information and Safety (ICTIS2015), Wuhan, China, June 25–28, 2015.
- 18th Meeting of the EURO Working Group on Transportation (EWGT 2015), Delft, The Netherlands, July 14-16, 2015.
- 18th Intern. IEEE Conference on Intelligent Transportation Systems (ITSC 2015), Las Palmas De Gran Canaria, Spain, September 15-18, 2015.
- 19th Intern. Conference on System Theory, Control and Computing (ICSTCC 2015), Cheile Gradistei, Romania, October 14 - 16, 2015.
- Workshop on Traffic Control, Institute for Pure and Applied Mathematics (IPAM), University of California at Los Angeles (UCLA), Los Angeles, California, October 26-30. 2015.
- 7th Intern. Congress on Transportation Research, Athens, Greece, 5-6 November 2015.
- IEEE Intern. Conference on Vehicular Electronics and Safety (ICVES 2015), Yokohama, Japan, November 5-7, 2015.
- 2nd Intern. Conference on Vehicle Technology and Intelligent Transport Systems (VEHITS 2016), Rome, Italy, 23-24 April 2016.
- IEEE/IFIP International Workshop on Urban Mobility & Intelligent Transportation Systems (UMITS), Istanbul, Turkey, 25 April 2016.
- 14th IFAC Symposium on Control in Transportation Systems (CTS 2016), Istanbul, Turkey, 18-20 May 2016.
- 14th IFAC Symposium on Large Scale Complex Systems: Theory and Applications (LSS 2016), Riverside, California, May 31 - June 3, 2016.
- 5th Intern. Symposium and 27th National Conference on Operational Research, Athens, Greece, June 9-11, 2016.
- TRISTAN IX (Triennial Symposium on Transportation Analysis), Oranjestad, Aruba, 13-17 June, 2016.
- IEEE International Workshop on Urban Mobility & Intelligent Transportation Systems (UMITS), Messina, Italy, June 27-30, 2016.
- Intern. Symposium on Traffic Simulation & Intern. Workshop on Traffic Data Collection and its Standardisation, Jeju Island, Korea, July 7-8, 2016.
- 19th Meeting of the EURO Working Group on Transportation (EWGT 2016), Istanbul, Turkey, 5-7 September 2016.
- XIX Intern. Conference on Systems Science, Wrocław, Poland, September 7-9, 2016.
- IEEE Intern. Conference on Systems, Man, and Cybernetics (SMC 2016), Budapest, Hungary, October 9-12, 2016.
- 19th Intern. IEEE Conference on Intelligent Transportation Systems (ITSC 2016), Rio de Janeiro, Brazil, November 1-4, 2016.
- 2016 Intern. Conference on Mechanics, Civil Engineering and Transportation (ICMCT 2016), Guilin, China, November 4-6, 2016.
- The Fifth Intern. Conference on Advances in Vehicular Systems, Technologies and Applications (VEHICULAR 2016), Barcelona, Spain, November 13 - 17, 2016.
- Intern. Conference on Intelligent Cloud Computing (ICC2016), Wuhan, China, December 17-18, 2016.
- 7th Intern. Conference on Sciences of Electronics, Technologies of Information and Telecommunications (SETIT'16), Hammamet, Tunisia, 18-20 December 2016.
- 3rd Intern. Conference on Vehicle Technology and Intelligent Transport Systems (VEHITS 2017), Porto, Portugal, 23-24 April 2017.

- The Seventh Intern. Conference on Performance, Safety and Robustness in Complex Systems and Applications (PESARO 2017), Venice, Italy, April 23-27, 2017.
- 5th IEEE Intern. Conference on Models and Technologies for Intelligent Transportation Systems (MT-ITS), Naples, Italy, 26-28 June 2017. (**Honorary Chair**)
- 2017 IEEE Intern. Conference on Vehicular Electronics and Safety (IEEE ICVES'17), Vienna, Austria, June 27-29, 2017.
- The Sixth Intern. Conference on Advances in Vehicular Systems, Technologies and Applications (VEHICULAR 2017), Nice, France, July 23 - 27, 2017.
- First INFORMS TSL Conference on Mobility 2020: Traffic, Transportation, and Logistics in a Cyber-Connected World, Chicago, Illinois, July 26-29, 2017.
- 4th Intern. Conference on Transportation Information and Safety (ICTIS 2017), Banff, Alberta, Canada, August 8–10, 2017.
- 20th Meeting of the EURO Working Group on Transportation (EWGT 2017), Budapest, Hungary, 4-6 September 2017.
- Intern. Conference on Optimization and Decision Science and XLVII Annual Meeting of AIRO – Italian Operations Research Society (ODS2017), Sorrento, Italy, September 4-7, 2017.
- Intern. Conference on Automatics and Informatics, John Atanasoff Society of Automatics and Informatics, Sofia, Bulgaria, 4-6 October 2017.
- IEEE Intern. Conference on Systems, Man, and Cybernetics (SMC 2017), Banff, Canada, October 5-8, 2017.
- 20th Intern. IEEE Conference on Intelligent Transportation Systems (ITSC 2017), Yokohama, Japan, October 16-19, 2017.
- Second Intern. Conference on Real Time Intelligent Systems (RTIS 2017), Casablanca, Morocco, October 18-20, 2017.
- VI Intern. Symposium of Transport and Communications: New Horizons 2017, Doboj, Bosnia and Herzegovina, 17-18 November 2017.
- 2nd Intern. Conference on System Reliability and Safety (ICSRS 2017), Milan, Italy, December 20-22, 2017.
- 4th Intern. Conference on Vehicle Technology and Intelligent Transport Systems (VEHITS 2018), Funchal, Madeira, Portugal, 16-18 March 2018.
- The Eighth International Conference on Performance, Safety and Robustness in Complex Systems and Applications (PESARO 2018), Athens, Greece, April 22-26, 2018.
- 4th Conference on Sustainable Urban Mobility (CSUM2018), Skiathos, Greece, May 24-25, 2018.
- 15th IFAC Symposium on Control in Transportation Systems (CTS 2018), Savona, Italy, June 6-8, 2018.
- The Seventh Intern. Conference on Advances in Vehicular Systems, Technologies and Applications (VEHICULAR 2018), Venice, Italy, June 24 - 28, 2018.
- The 29th IEEE Intelligent Vehicles Symposium (IV2018), Changshu, China, 26-29 June 2018.
- Intern. Symposium of Transport Simulation & Intern. Workshop on Traffic Data Collection and its Standardization (ISTS & IWTDCS 2018), Matsuyama, Japan, August 4-6, 2018.
- 21st Meeting of the EURO Working Group on Transportation (EWGT 2018), Braunschweig, Germany, 17-19 September 2018.
- Intern. Conference on Automatics and Informatics '18, John Atanasoff Society of Automatics and Informatics, Sofia, Bulgaria, 4-6 October 2018.

- IEEE Intern. Conference on Systems, Man, and Cybernetics (SMC 2018), Miyazaki, Japan, October 7-10, 2018.
- 22nd Intern. Conference on System Theory, Control and Computing (ICSTCC 2018), Sinaia, Romania, October 10 - 12, 2018.
- 21st Intern. IEEE Conference on Intelligent Transportation Systems (ITSC 2018), Maui, Hawaii, November 4-7, 2018.
- 2018 Intern. Conference on Control Science and Systems Engineering (ICCSSE 2018), Wellington, New Zealand, December 13-15, 2018.
- 2019 Intern. Conference on Robotics Systems and Vehicle Technology (RSVT 2019), Wuhan, China, 11-14 March 2019.
- The Ninth International Conference on Performance, Safety and Robustness in Complex Systems and Applications (PESARO 2019, Valencia, Spain, March 24-28, 2019.
- 6th Intern. Conference on Control, Decision and Information Technologies (CoDIT'19), Paris, France, April 20-23, 2019.
- 5th Intern. Conference on Vehicle Technology and Intelligent Transport Systems (VEHITS 2019), Heraklion, Greece, 3-5 May 2019.
- 6th Intern. Conference on Models and Technologies for Intelligent Transportation Systems (MT-ITS), Krakow, Poland, 5-7 June 2019.
- TRISTAN X (Triennial Symposium on Transportation Analysis), Hamilton Island, Australia, 17-21 June, 2019.
- 2019 CIB World Building Congress “Constructing Smart Cities”, Hong Kong, 18-21 June 2019.
- The Eighth Intern. Conference on Advances in Vehicular Systems, Technologies and Applications (VEHICULAR 2019), Rome, Italy, June 30 – July 4, 2019.
- 5th Intern. Conference on Transportation Information and Safety (ICTIS 2019), Liverpool, U.K., 14–17 Jul, 2019.
- 22nd Meeting of the EURO Working Group on Transportation (EWGT 2019), Barcelona, Spain, 18-20 September 2019.
- 2nd COTA International Symposium on Emerging Trends in Transportation (ISETT2019), Rome, Italy, October 3~5, 2019.
- Intern. Conference on Automatics and Informatics '19, John Atanasoff Society of Automatics and Informatics, Sofia, Bulgaria, 3-5 October 2019.
- 23rd Intern. Conference on System Theory, Control and Computing (ICSTCC 2019), Sinaia, Romania, October 9-11, 2019.
- 22nd Intern. IEEE Conference on Intelligent Transportation Systems (ITSC 2019), Auckland, New Zealand, October 27-30, 2019.
- 7th Intern. Symposium of Transport and Communications: New Horizons 2019, Doboj, Bosnia and Herzegovina, 29-30 November 2019.
- 2019 Intern. Conference on Control Science and Systems Engineering (ICCSSE 2019), Auckland, New Zealand, December 12-14, 2019.
- Intern. Conference on Control and Decision (ICoCD 2020), Sydney, Australia February 14-16, 2020.
- 5th Conference on Sustainable Urban Mobility (CSUM2020), turned to Virtual Conference due to COVID-19, University of Thessaly, Greece, June 17-19, 2020.
- 5th Intern. Conference on Real-Time Intelligent Systems (RTIS'2020), Biarritz, France, 30 June - 3 July 2020.

- 7th Intern. Conference on Control, Decision and Information Technologies (CoDIT'20), Prague, Czech Republic, June 29-July 2, 2020.
- 23rd Meeting of the EURO Working Group on Transportation (EWGT 2020), Paphos, Cyprus, 16-18 September 2020.
- XIV Balkan Conference on Operational Research (BALCOR 2020), Thessaloniki, Greece, September 30 - October 3, 2020.
- 24th Intern. Conference on System Theory, Control and Computing (ICSTCC 2020), Sinaia, Romania, October 8-10, 2020.
- 16th IFAC Symposium on Control in Transportation Systems (CTS 2021), Lille, France, 8-10 June, 2021.
- 7th Intern. IEEE Conference on Models and Technologies for Intelligent Transportation Systems (MT-ITS), Heraklion, Greece, 16-18 June 2021. (**Honorary Chair**)
- 24th Meeting of the EURO Working Group on Transportation (EWGT 2021), Aveiro, Portugal, 8-10 September 2021.
- Intern. Conference Automatics and Informatics 2021 (ICAI'21), Varna, Bulgaria. 30 September - 2 October 2021.
- 25th Intern. Conference on System Theory, Control and Computing (ICSTCC 2021), Iasi, Romania, October 20-23, 2021.
- 6th Intern. Conference on Transportation Information and Safety (ICTIS 2021), Wuhan, China, October 22-24, 2021.
- 8th Intern. Symposium of Transport and Communications: New Horizons 2021, Doboj, Bosnia and Herzegovina, November 26-27, 2021.
- 8th Intern. Conference on Control, Decision and Information Technologies (CoDIT'22), Istanbul, Turkey, May 17-20, 2022.
- TRISTAN XI (Triennial Symposium on Transportation Analysis), Mauritius, June 19-26, 2022.
- 26th Intern. Conference on System Theory, Control and Computing (ICSTCC 2022), Sinaia, Romania, 19-21 October 2022.
- 3rd Intern. Conference on Electronics and Electrical Engineering (IC3E'2022), Bouira, Algeria, 14-15 November 2022.
- Intern. Conference Automatics and Informatics 2022 (ICAI'22), Varna, Bulgaria. 6-8 October 2022.
- 9th Intern. Symposium and 31st National Conference on Operational Research (HELORS 2023), Aigaleo, Greece, June 29 - July 1, 2023.
- 7th Intern. Conference on Transportation Information and Safety (ICTIS 2023), Xi'an, China, and Granada, Spain, August 4-6, 2023.
- 25th Meeting of the EURO Working Group on Transportation (EWGT 2023), Santander, Spain, 6-8 September 2023.
- Intern. Conference on ITS 2023 - Intelligent Systems and Consciousness Society, Patras, Greece, 2-3 November 2023.
- 17th IFAC Symposium on Control of Transportation Systems (CTS 2024), Ayia Napa, Cyprus, July 1-3, 2024.
- 10th Intern. Conference on Control, Decision and Information Technologies (CoDIT 2024), Valletta, Malta, July 1-4, 2024.
- 26th Meeting of the EURO Working Group on Transportation (EWGT 2024), Lund, Sweden, 4-6 September 2024.

- TRISTAN XII (Triennial Symposium on Transportation Analysis), Okinawa, Japan, June 22-27, 2025.
- 27th Meeting of the EURO Working Group on Transportation (EWGT 2025), Edinburgh, Scotland, 1-3 September 2025.

CONSULTING AND EXPERTISE

Scientific-technical expertise and consulting services for several companies, ministries, organisations, universities and research institutions in different countries including:

- European Commission (DG III, DG XIII).
- Institut National de Recherche sur les Transports et leur Sécurité (INRETS), Arcueil, France.
- University of Minnesota, Minneapolis.
- INTELECTRON Ltd, Thessaloniki, Greece.
- ZENON Ltd, Athens, Greece.
- DaimlerChrysler AG, Stuttgart, Germany.
- SRILOG, Paris, France.
- Dutch Ministry of Public Works (Rijkswaterstaat), The Netherlands.
- Hague Consultant Group, The Hague, The Netherlands.
- IBI Group, Athens.
- Yefe Nof Ltd., Haifa, Israel.
- DHV, Amersfoort, The Netherlands.
- Laboratoire Central des Ponts et Chaussées, Paris, France.
- ATKINS Transport, Birmingham, U.K.
- ARPA, Napoli, Italy.
- Hannover University, Germany.
- Autostrade Meridionali, Napoli, Italy.
- VicRoads, Melbourne, Australia.
- Brascontrol, Sao Paulo, Brasil.
- TNO Bouw en Ondergrond, The Netherlands.
- Greek Ministry of Infrastructure, Transportation and Networks.
- World Bank, Washington DC.
- Open Roads Consulting, inc., USA.
- TRANSMAX, Australia.
- Main Roads Western Australia, Perth, Australia.
- Department of Transport and Main Roads, Brisbane, Australia.
- TRANSVER GmbH, Munich, Germany
- Bundesanstalt für Straßenwesen (BASt), Germany
- TRANSURBAN, Australia
- Google LLC, U.S.A.

ACADEMIC EVALUATION

Invited external evaluator of candidate faculty members or tenure researchers at:

- INRETS, Arcueil, France (1990, 1991, 1998, 1999, 2002, 2005, 2009, 2010)
- IRSIA-IWONL, Brussels, Belgium (1991)
- University of Minnesota, Minneapolis (1994, 2005, 2014)
- Université d'Evry-Val d'Essone, France (1996)

- Universität-Gesamthochschule Siegen, Germany (1996)
- University of Massachusetts, Lowell (1997, 1998)
- Massachusetts Institute of Technology, Cambridge, U.S.A. (1998, 2001, 2005, 2013, 2019, 2021)
- Delft University of Technology, The Netherlands (1998, 2004, 2006, 2020)
- Purdue University, West Lafayette, Indiana (1999, 2010)
- University of California, Berkeley (2002, 2010, 2014, 2016)
- University of Toronto, Canada (2003)
- Columbia University, New York (2004, 2012)
- Technion – Israel Institute of Technology (2004, 2005, 2006, 2010, 2020)
- Alpen-Adria Universität Klagenfurt, Austria (2004)
- Canada Research Chairs (2004)
- University of Durham, U.K. (2005)
- Cyprus University of Technology (2006, 2009)
- Monash University, Melbourne, Australia (2007, 2010, 2013)
- Trinity College, Dublin, Ireland (2007)
- Northwestern University, Illinois (2008)
- University of Pisa (2009)
- University of Leeds, U.K. (2009)
- INRIA, Center of Grenoble, France (2010)
- Cornell University, U.S.A. (2010, 2023a, 2023b)
- The University of Texas at Austin, U.S.A. (2010)
- University of Washington, Seattle, U.S.A. (2010)
- University of Southampton, U.K. (2011, 2013, 2014, 2016)
- University of Southern California (USC), Los Angeles, U.S.A. (2011)
- Technical University of Catalonia (BarcelonaTech), Barcelona, Spain (2012)
- The University of Sheffield, U.K. (2012)
- University of Connecticut, U.S.A. (2012)
- Michigan Technological University, U.S.A. (2012)
- Princeton University, U.S.A. (2012)
- University of Bristol, U.K. (2013)
- University of Glasgow, U.K. (2013, 2015)
- Imperial College London, U.K. (2013)
- Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland (2014, 2016, 2021)
- Technical University of Munich, Germany (2014)
- University of Malta (2015, 2017, 2019)
- University of Manchester, U.K. (2015)
- Loughborough University, U.K. (2015)
- “Dunărea de Jos” University of Galați, Romania (2015)
- University of Sydney, Australia (2016)
- University of Arizona, U.S.A. (2016)

- University of California at Los Angeles (UCLA), U.S.A. (2017)
- Hasselt University, Belgium (2017)
- New York University Abu Dhabi, United Arab Emirates (2018)
- Indian Institute of Technology Madras, India (2018)
- University of Delaware, U.S.A (2019)
- University of Luxembourg (2019)
- McGill University, Canada (2020)
- University of Oxford, U.K. (2020, 2024)
- Korea Advanced Institute of Science and Technology (KAIST), South Korea (2020).
- Stanford University, U.S.A. (2021)
- University of Cyprus, Cyprus (2023)
- University of Michigan, U.S.A. (2023)
- KU Leuven, Belgium (2023)
- Zhejiang University, China (2024)
- Indian Institute of Technology Mandi, India (2024)
- Indian Institute of Technology Roorkee, India (2024)
- Hong Kong University of Science and Technology (Guangzhou), China (2024).
- Business University of Athens, Greece (2000, 2015, 2016, 2017)
- University of the Aegean, Greece (2001, 2002)
- University of Thessaly, Greece (2001, 2008, 2013, 2016, 2018, 2019, 2020)
- University of Piraeus, Greece (2001)
- Hellenic Institute of Transport, Greece (2006, 2009, 2020, 2021)
- National Technical University of Athens, Greece (2008, 2009, 2013, 2016)
- University of Macedonia, Greece (2010, 2015)
- University of Patras, Greece (2012, 2013, 2014)
- School of Pedagogical and Technological Education (ASPETE) (2013)
- Technological Educational Institution (T.E.I.) of Athens (2013)
- University of Western Macedonia, Greece (2021a, 2021b)

Invited external examiner of doctoral theses or habilitation procedures at :

- Université Paris XI Orsay France (1986, 1991, 1996, 1999)
- Ecole Nationale Supérieure de l'Aéronautique et de l'Espace, Toulouse, France (1988)
- Université de Paris I-Panthéon-Sorbonne, Paris, France (1994, 2008)
- Technical University of Munich, Munich, Germany (1994, 1997, 2003, 2016, 2020, 2022)
- Université Paris IX Dauphine, France (1999, 2000)
- Delft University of Technology, Delft, The Netherlands (1999, Febr. 2004, Dec. 2004, 2006, 2010, 2011, 2013, 2016, 2017, 2018)
- Massachusetts Institute of Technology, Cambridge, Massachusetts (2000)
- Université d'Évry - Val d'Essonne, France (2001, 2002)
- National Technical University of Athens, Greece (2004)
- Ecole Nationale des Ponts et Chaussées, Paris, France (2004, 2007, 2010)

- Institut National des Sciences Appliquées de Lyon, France (2005)
- Nanyang Technological University, Singapore (2006, 2015, 2021)
- University of Mauritius, Reduit, Mauritius (2008)
- Ecole Nationale des Travaux Publics d’Etat, Lyon, France (Sept. 2010, Nov. 2010, 2014)
- Université de Technologie de Troyes, France (2013).
- Université Paris-Est, France (2014, 2015, 2016, Sept. 2018, Dec. 2018)
- Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland (2014, 2019)
- University of Seville, Spain (2015)
- Université Grenoble Alpes, France (2015)
- Democritus University of Thrace, Greece (2016)
- Università degli Studi di Genova, Italy (2016)
- KTH Royal Institute of Technology, Sweden (2018)
- Delhi Technological University, India (2018)
- University of Cyprus, Cyprus (2019)
- University of Malta, Malta (2019)
- Università degli Studi di Napoli Federico II, Italy (2022)
- Hong Kong University of Science and Technology, Hong Kong (2024a, 2024b)

RESEARCH EVALUATION

Evaluation of research proposals or research projects

- Evaluator of proposals (1988, 1999, 2000, 2013, 2016, 2017, 2022) and technical auditor (1989-1991, 1998-2002) of accepted projects for the Programmes DRIVE, Transport Telematics, IST (Information Society Technologies), REA-SME and ERC (European Research Council) of the European Commission.
- Auditor of research projects for the Greek Ministry of Industry, Energy and Technology and evaluator of research proposals for the Ministry of National Education.
- Evaluator of research proposals for the Italian Ministry for University and Research (2000), The Netherlands Organisation for Scientific Research (NWO) (2001), the California PATH Program (1993, 2002), German-Israeli Foundation (GIF) for Scientific Research and Development (2007, 2008), the Leverhulme Trust (UK) (2007), Israel Science Foundation (2007, 2019, 2020), California METRANS Transportation Center (2008, 2015, 2017, 2018, 2019a, 2019b, 2022), Agence Nationale de la Recherche (ANR), France (2009), National Science Foundation (NSF), U.S.A (2009), Research Promotion Foundation (IPE) of Cyprus (2011), PREDIT Programme, France (2013), Technical University of Munich - Rudolf Diesel Industry Fellowships, Germany (2022).
- Member of the Review Panel for the National Centre of Excellence (NCCR) Automation of the Swiss National Science Foundation (SNSF) (since 2021).
- Scientific Board member for the Global Postdoc Fellowship (TGPF) of Technical University of Munich, Germany (since 2022).

Evaluation of research institutions

- External evaluator (chairman of the evaluation committee) for the Department GRETIA (Génie des Réseaux de Transport et Informatique Avancée) of the French National Research Institute INRETS, Arcueil, France (2006).
- External evaluator (coordinator of the evaluation committee) for the research activities of the Dipartimento di Scienze dell'Ingegneria Civile, Università degli Studi Roma Tre, Rome, Italy (2009).

Evaluation of research achievements

- Member of the jury for the designation of the winner of the Premio Galileo Galilei per la Scienza of University of Pisa, Italy (2009).
- IEEE-ITSS Fellow Evaluation Committee member (since 2007).
- IEEE-ITSS Award Evaluation Committee (since 2010).
- INFORMS Transportation Science and Logistics Society (TSL) Best Paper Award Committee member (2013-2014); Chairman (2015).
- Member of the IEEE Transportation Technologies Award Committee (2021-2024).

PRESENTATIONS AND PUBLICATIONS

(see also detailed lists of publications and presentations)

- **Scientific talks** and attendance at scientific meetings in Germany, United Kingdom, Italy, USA, Poland, Denmark, Hungary, France, Portugal, Spain, Greece, Belgium, USSR, Austria, P.R. China, The Netherlands, Canada, Australia, Japan, Brazil, Argentina, Singapore, Turkey, Puerto Rico, Russia, Romania, Mexico, Israel, India, Syria, Guadeloupe, Bulgaria, Czech Republic, Iceland, Switzerland, South Africa, Korea, Serbia, Ireland, Cyprus, Sweden, Malta, Mauritius, North Macedonia, Hong Kong.
- **Author of the books**
 - "Applications of automatic control concepts to traffic flow modeling and control". Springer-Verlag, Berlin, 1983.
 - "Optimierung – Statische, dynamische, stochastische Verfahren für die Anwendung" ("Optimisation – Applied static, dynamic, stochastic methods"). R. Oldenbourg-Verlag, Munich, 1991.
 - 2nd Edition (corrected and extended), 1996.
 - "Optimal Real-time Control of Sewer Networks" (together with M. Marinaki). Springer-Verlag, London, 2005.
 - "Optimierung – Statische, dynamische, stochastische Verfahren für die Anwendung" ("Optimisation – Applied static, dynamic, stochastic methods") (together with M. Leibold and M. Buss). 3rd Edition (revised and updated), Springer, Berlin, 2012.
 - 4th Edition (corrected), 2015.
- **Editor of the books:**
 - "Concise Encyclopedia of Traffic and Transportation Systems". Pergamon Press, Oxford, 1991.

- “Proceedings 1st Meeting of the EURO Working Group on Urban Traffic and Transportation” (together with J.C. Moreno Baños, B. Friedrich, H. Keller). Technische Universität München, Munich, 1993.
- “Preprints and Proceedings of the 8th IFAC/IFIP/IFORS Symposium on Transportation Systems” (3 volumes, together with A. Pouliezios). Elsevier Science, Oxford, 1998.
- **Author** or co-author of over 600 technical papers in journals, books and conference proceedings.

Chania, 12 December 2024