

UNIVERSITY "ROMA TRE"  
DEPARTMENT OF CIVIL ENGINEERING, COMPUTER SCIENCE AND AERONAUTICAL TECHNOLOGIES  
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### **PERSONAL INFORMATION**

NATIONALITY	ITALIAN
PLACE AND DATE OF BIRTH	ROME, 29TH APRIL 1968
LANGUAGES	ITALIAN, MOTHER TONGUE ENGLISH, VERY GOOD SPOKEN AND WRITTEN
STATUS	MARRIED, ONE SON

### **ACADEMIC POSITION**

2020 TO DATE	FULL PROFESSOR
2016 TO 2020	ASSOCIATE PROFESSOR
2015 TO 2020	QUALIFIED FULL PROFESSOR
2013 TO 2016	QUALIFIED ASSOCIATE PROFESSOR
2004 TO 2015	ASSISTANT PROFESSOR
2018 TO DATE	LECTURER OF THE COURSE "SMART MOBILITY – INTELLIGENT TRANSPORTATION SYSTEMS FOR SUSTAINABLE MOBILITY"
2001 TO DATE	LECTURER OF THE COURSE "URBAN TRANSPORTATION SYSTEMS"
2009 TO 2018	LECTURER OF THE COURSE "AIR TRANSPORTATION" MODULE IN "RAILWAY, NAVAL AND AIR TRANSPORTATION SYSTEMS" COURSE
2004-2006	LECTURER OF THE COURSE "TRANSPORTATION PLANNING LABORATORY"

### **EDUCATION**

2001- 2003	POST-PHD ON ROAD TRAFFIC MONITORING SYSTEMS FUNDED BY THE RESEARCH CENTRE OF THE ITALIAN ROAD NATIONAL BUREAU (ANAS SPA)
1997-2000	PHD IN TRANSPORTATION ENGINEERING AT THE UNIVERSITY OF ROMA "LA SAPIENZA" WITH THE THESIS "THE SIGNAL SETTING DESIGN IN THE TRAFFIC ASSIGNMENT PROBLEM"
1995	(FIRST) DEGREE IN CIVIL ENGINEERING AT THE DEPARTMENT OF HYDRAULIC, TRANSPORTATION AND ROADS OF THE UNIVERSITY OF ROMA "LA SAPIENZA" WITH THE THESIS "PARKING PLAN FOR A MEDIUM SIZE CITY"

## MAIN ACTIVITIES (2005 – 2025)

2025 TO DATE	SCIENTIFIC COORDINATOR OF THE SIMUS PROJECT ON "EXPLOITING THE OPPORTUNITIES OFFERED BY ADVANCES IN TELECOMMUNICATIONS AND THE AVAILABILITY OF BIG DATA TO IMPROVE MOBILITY SIMULATION MODELS" - WITHIN THE NATIONAL CENTER FOR SUSTAINABLE MOBILITY - SPOKE 9 URBAN MOBILITY.
2024 TO DATE	PROJECT LEADER OF TRANSPORT ACTIVITIES: TRANSPORT STUDY OF THE OSTIENSE DISTRICT AND OF THE NAVIGABILITY OF THE TIBER FROM FIUMICINO TO THE FLUVIAL PORT OF OSTIENSE, FOR ROME ADVANCED DISTRICT - ROAD
2023 TO 2024	PROJECT LEADER OF ROAD TRANSPORT ACTIVITIES: EXPERIMENTAL TECHNOLOGIES FOR ELECTRIC VEHICLE CHARGING AND MODELS FOR URBAN MOBILITY ANALYSIS AND SIMULATION, FOR ENEA – ITALIAN NATIONAL AGENCY FOR NEW TECHNOLOGIES, ENERGY AND SUSTAINABLE ECONOMIC DEVELOPMENT
2023 TO 2024	RESPONSIBLE OF ACTIVITIES RELATED TO TRAFFIC STUDIES AND DEVELOPMENT OF INFRASTRUCTURES MODELS FOR THE RAS AL KHAIR CITY MASTERPLAN, FOR T.EN. ITALY – SAUDI ARAMCO
2023 TO DATE	SCIENTIFIC REPRESENTATIVE ON BEHALF OF THE CITY OF ROME AT THE MINISTERIAL SCIENTIFIC TABLE OF THE MAAS4ITALY PROJECT
2023 TO DATE	PROJECT LEADER OF ACTIVITIES RELATED TO TRANSPORT ANALYSIS AND IMPACT ASSESSMENT ON URBAN MOBILITY OF THE INTERVENTIONS FOR THE JUBILEE OF THE CATHOLIC CHURCH 2025, FOR ATT SRL - SOCIETÀ GIUBILEO 2025
2022 TO 2023	COORDINATOR OF THE PROJECT "“PREFEASIBILITY AND FEASIBILITY STUDY OF A MULTIMODAL TRANSPORT CORRIDOR IN IRAQ", FOR BTP S.P.A. - IRAQ REPUBLIC RAILWAYS CO.
2021 TO 2024	EXPERT FOR THE H2020 PROJECT "FITDRIVE: MONITORING DEVICES FOR OVERALL FITNESS OF DRIVERS", FOR EUROPEAN CLIMATE INFRASTRUCTURE AND ENVIRONMENT EXECUTIVE AGENCY
2021 TO 2022	COORDINATOR OF INDUSTRIAL RESEARCH AND EXPERIMENTAL DEVELOPMENT FOR THE PROJECT "CONSTRUCTION OF THE NEW COMMAND AND CONTROL ROOM OF ROME MOBILITY AGENCY", FOR ALMAVIVA – THE ITALIAN INNOVATION COMPANY S.P.A.
2020 TO 2022	EXPERT FOR THE PROJECT "OPTIMIZATION MODELS AND METHODS FOR THE TRAFFIC SUPERVISOR OF THE CONTROL ROOM OF CAV (CONSORTIUM OF VENETIAN MOTORWAYS)", FOR ALMAVIVA – THE ITALIAN INNOVATION COMPANY S.P.A. AND "SAPIENZA" UNIVERSITY
2019 TO 2021	COORDINATOR OF THE PROJECT "DEVELOPMENT OF A SYSTEM FOR FORECASTING MOBILITY DEMAND AND TRAVEL TIMES USING BLUETOOTH, FCD AND OTHER SOURCE DATA", FOR ROME MOBILITY AGENCY (RSM SRL)
2020 TO 2021	COORDINATOR OF THE STUDY "URBAN MOBILITY IN THE POST COVID-19 ERA", FOR CARACCILO FOUNDATION

2019 TO 2020	COORDINATOR OF THE PROJECT ""DEVELOPMENT AND IMPLEMENTATION OF THE PROCEDURE FOR THE IDENTIFICATION OF THE OPTIMAL CO-FINANCING QUOTAS FOR ALTERNATIVE FUEL TECHNOLOGIES IN THE NATIONAL STRATEGIC PLAN FOR SUSTAINABLE MOBILITY", FOR ENEA - NATIONAL AGENCY FOR NEW TECHNOLOGIES, ENERGY AND SUSTAINABLE ECONOMIC DEVELOPMENT
2017 TO 2019	ADVISOR OF THE PROJECT ""UPDATING TRANSPORTATION MASTER PLAN FOR QATAR", ITALCONSULT QATAR BRANCH FOR MINISTRY OF TRANSPORT AND COMMUNICATION – QATAR
2018	COORDINATOR OF THE PROJECT ""TRAFFIC ANALYSIS FOR THE WESTCONNEX PROJECT, SIDNEY, AUSTRALIA", ATLANTIA SPA
2018	MEMBER OF TENDER COMMISSION ON ""RAILWAY ROMA-VITERBO: RAILWAY REHABILITATION PROJECT OF THE SECTION FROM KM 0+000 TO KM 5+989 (LOTTO I AND LOTTO 2)" (EUR 103 MILLION – AZIENDA STRADE LAZIO-ASTRAL)
2015 TO 2017	COORDINATOR OF THE PROJECT ""WEB-GIS TRAFFIC MONITORING PLATFORM", ROME MOBILITY AGENCY (RSM SRL)
2013 TO 2016	EXPERT FOR THE PROJECT "IDEAS PROJECT - IMPROVING DEMAND ESTIMATION WITH ACTIVITY SCHEDULING", FOR FONDE NATIONAL DE LA RECHERCHE – LUXEMBOURG
2015 TO 2016	COORDINATOR OF THE PROJECT ""TRANSPORTATION STUDY FOR ACCESSIBILITY TO FIUMICINO AIRPORT WITH REAL ESTATE DEVELOPMENT IN LAND SIDE, AEROPORTI DI ROMA", FOR SPEA INGEGNERIA EUROPEA S.P.A.
2013 TO 2015	COORDINATOR OF THE PROJECT ""DEVELOPMENT OF ADVANCED PROCEDURES FOR URBAN TRAFFIC, ENVIRONMENT AND SAFETY MONITORING", ROME MOBILITY AGENCY (RSM SRL)
2013 TO 2014	CONSULTANT FOR ""ROAD SAFETY AUDIT AND ROAD SAFETY INSPECTION: SEVERAL SITES IN ROME", ROME MOBILITY AGENCY (RSM SRL).
2011 TO 2013	EXPERT FOR THE EUROPEAN COST ACTION TU0903 ""MULTITUDE – METHODS AND TOOLS FOR SUPPORTING THE USE CALIBRATION AND VALIDATION OF TRAFFIC SIMULATION MODELS""
2011 TO 2013	COORDINATOR OF THE PROJECT ""A METHODOLOGY FOR OF THE FEEDER BUS NETWORK DESIGN", ROME MOBILITY AGENCY (RSM SRL)
2009 TO 2011	COORDINATOR OF THE PROJECT ""DESIGN OF THE MAIN ROAD NETWORK IN ROME", ATAC S.P.A.
2008 TO 2009	MODELLER FOR THE PROJECT ""STRATEGY AND MEASURES FOR A SUSTAINABLE DEVELOPMENT OF URBAN TRANSPORT"" FOR THE ITALIAN TRANSPORTATION MINISTER – ""LA SAPIENZA"" UNIVERSITY OF ROME
2008 TO 2009	MODELLER FOR ""REGIONAL PLAN OF FREIGHT TRANSPORT"" FOR LAZIO REGIONAL MOBILITY AGENCY (AREMOL) – ""LA SAPIENZA"" UNIVERSITY OF ROME

2007 TO 2008	COORDINATOR OF THE PROJECT "A METHODOLOGY FOR THE TRANSIT NETWORK DESIGN PROBLEM SUITED FOR LARGE URBAN AREAS", FOR ATAC S.P.A.
2006 TO 2007	COORDINATOR OF THE PROJECT "DEFINITION OF A METHODOLOGY FOR THE DESIGN OF PARK&RIDE AREAS", FOR THE ATAC S.P.A.
2005 TO 2006	MODELLER FOR FIRB NATIONAL RESEARCH PROJECT "THE INTERACTION BETWEEN SIGNAL SETTINGS AND EQUILIBRIUM TRAFFIC FLOWS IN ROAD NETWORKS".
2005 TO 2007	COORDINATOR OF THE PROJECT "SMART PROJECT: FIELD TEST VALIDATION OF DIFFERENT TRAFFIC MONITORING TECHNOLOGIES", FOR THE ITALIAN ROAD NATIONAL BUREAU (ANAS S.P.A.)

## RESEARCH FIELDS

TRANSPORT DEMAND ESTIMATION	THE RESEARCH ON THIS TOPIC, INITIALLY FUNDED BY THE ITALIAN ROAD NATIONAL BUREAU (ANAS), IS ORIGINALLY DEDICATED ON THE STUDY OF THE METHODS FOR THE OPTIMAL LOCATION OF TRAFFIC COUNT SECTIONS AIMING AT ACHIEVING MANY DIFFERENT OBJECTIVES SUCH INFRASTRUCTURES DESIGN, MAINTENANCE, ETC... . IN RECENT INTERNATIONAL COLLABORATION, THIS TOPIC HAS BEEN MAINLY STUDIED FOCUSING ITS DYNAMIC OFF-LINE ASPECTS; RESULTING FROM THIS STUDY ARE SOME EFFICIENT SOLVING METHODS SUITED FOR REAL SIZE CASE APPLICATIONS.
TRANSIT NETWORK DESIGN	IN THIS RESEARCH THE TRANSIT NETWORK DESIGN PROBLEM IS STUDIED PROPOSING DIFFERENT HEURISTIC ALGORITHMS TO DEVELOP PLANNING METHODS THAT CAN BE APPLIED TO REAL URBAN NETWORKS. THE RESEARCH HAS BEEN CARRIED OUT ON THE BASIS OF RECENT HEURISTIC TECHNIQUES THAT ALLOW THE APPLICATION OF THE PROPOSED METHODOLOGY FOR THE DESIGN OF THE TRANSIT NETWORK OF THE CITY OF ROME CARRIED OUT BY ATAC SPA (ROME MOBILITY AGENCY).
ROAD TRAFFIC MONITORING SYSTEMS	THE RESEARCH IS CARRIED OUT TO DEVELOP EVALUATION METHODS FOR THE ASSESSMENT OF THE ACCURACY OF DATA COLLECTED BY TRAFFIC MONITORING SYSTEMS. IN THE RESEARCH, COMMISSIONED BY THE ITALIAN ROAD NATIONAL BUREAU (ANAS), A SYSTEMATIC EXPERIMENTAL COMPARISON BETWEEN DIFFERENT MONITORING SYSTEMS WAS CARRIED OUT. A SPECIAL TEST SITE WAS EQUIPPED (SS1 AURELIA) WITH AN ORIGINAL SPEED DETECTION, WHICH WAS USED AS REFERENCE SYSTEM. DIFFERENT PROCEDURES WERE DEFINED TO VERIFY THE PRECISION, ACCURACY AND RELIABILITY OF COLLECTED DATA. EXPERIMENTAL RESULTS OVER MORE THAN ONE YEAR FUNCTIONING ARE REPORTED IN DIFFERENT PUBLICATIONS.
INTERACTION BETWEEN SIGNAL SETTINGS AND TRAFFIC ASSIGNMENT	THE STUDY DEALS WITH THE COMBINED PROBLEM OF SIGNAL SETTINGS AND TRAFFIC ASSIGNMENT. IT STARTED DURING THE DOCTORAL THESIS AND CONTINUED WITH THE RESEARCH PROJECT FIRB "INTERACTION BETWEEN SIGNAL SETTINGS AND TRAFFIC FLOW PATTERNS ON ROAD NETWORKS" FUNDED BY THE ITALIAN MINISTRY OF RESEARCH IN 2004. THE PROBLEM IS STUDIED ADOPTING BOTH LOCAL AND GLOBAL APPROACHES. NEW SOLUTION PROCEDURES ARE PROPOSED AND APPLIED BOTH IN THE STATIC THAN IN THE DYNAMIC CASE. THE

RESULTS OBTAINED BOTH ON TEST NETWORKS AND ON A REAL ONE CONFIRMED THE THEORETICAL EXPECTATIONS AND THE EFFECTIVENESS OF THE ADOPTED APPROACH.

## **ACADEMIC EXCHANGES**

### **RESEARCH COLLABORATION**

UNIVERSITÉ DU LUXEMBOURG: MEMBER OF SUPERVISION COMMITTEE OF DOCTORAL DEGREE (2014 - 2023)

TRANSPORTATION RESEARCH BOARD (TRB), US: MEMBER OF COMMITTEE ON TRAFFIC CONTROL DEVICES (AHB50) (2011 – PRESENT)

SALERNO UNIVERSITY: LECTURER FOR SECOND SIDT SUMMER SCHOOL: (SEPT. 2022)

SAPIENZA UNIVERSITÀ DI ROMA: EXPERT IN MASTER “MANAGEMENT OF LOCAL PUBLIC TRANSPORT” (Nov. 2019)

SALERNO UNIVERSITY: LECTURER FOR FIRST SIDT SUMMER SCHOOL: (SEPT. 2018)

UNIVERSITY OF MONTREAL "CIRRELT", CANADA: COORDINATOR OF SCIENTIFIC AGREEMENT WITH UNIVERSITY OF MONTREAL (2014 – 2017)

SCHOOL OF ECONOMICS AND MANAGEMENT, BEIHANG UNIVERSITY: SUPERVISOR OF “RESEARCH PLAN FOR DOCTOR JOINT TRAINING PROGRAM” (APRIL – JUNE 2017)

IEEE: MEMBER OF INTELLIGENT TRANSPORTATION SYSTEM SOCIETY (2013 – 2016)

UNIVERSITÉ DU LUXEMBOURG: ERASMUS + STAFF MOBILITY FOR TEACHING IN HIGHER EDUCATION (Sept. 2015)

SAPIENZA UNIVERSITÀ DI ROMA: EXPERT IN MASTER “MANAGEMENT OF LOCAL PUBLIC TRANSPORT” (May 2017)

UNIVERSITAT POLITÈCNICA DE CATALUNYA “UPC”, SPAIN: STAY ON “DYNAMIC OD DEMAND ESTIMATION” (Sept. 2013)

UNIVERSITAT POLITÈCNICA DE CATALUNYA “UPC”, SPAIN: RESPONSABLE OF SHORT TERM SCIENTIFIC MISSION (HOST INSTITUTION) IN ACTION COST "TU0903" (April – July 2013)

UNIVERSITY OF MONTREAL "CIRRELT", CANADA: SEMINAR ON “TRANSIT NETWORK DESIGN” (Oct. 2010)

UNIVERSITY OF MONTREAL "CIRRELT", CANADA: STAY ON “DYNAMIC OD DEMAND ESTIMATION” (April 2008)

### **EDITOR**

#### **BOOK**

EXTERNAL COSTS OF TRANSPORT SYSTEMS: THEORY AND APPLICATIONS (ED. FRANCO ANGELI, 2013)

#### **JOURNALS**

RESEARCH IN TRANSPORTATION ECONOMICS (GUEST EDITOR - 2020)

**REFeree**

**JOURNALS**

EUROPEAN JOURNAL OF OPERATIONAL RESEARCH  
TRANSPORTATION RESEARCH PART A  
TRANSPORTATION RESEARCH PART B  
TRANSPORTATION RESEARCH PART C  
TRANSPORTATION RESEARCH PART D  
TRANSPORTATION RESEARCH PART E  
TRANSPORTMETRICA  
TRANSPORTATION SCIENCE  
EUROPEAN JOURNAL OF OPERATIONAL RESEARCH  
PUBLIC TRANSPORT  
IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS  
SIMULATION MODELLING PRACTICE AND THEORY  
ADVANCES IN TRANSPORTATION STUDIES  
EUROPEAN TRANSPORT RESEARCH REVIEW  
IEEE ANNUAL INTELLIGENT TRANSPORTATION SYSTEMS CONFERENCE  
TRB ANNUAL MEETING  
WORLD CONFERENCE ON TRANSPORTATION RESEARCH  
MODELS AND TECHNOLOGIES FOR ITS CONFERENCE

**PUBLICATIONS (2005-2025)**

1. CASTIGLIONE M., CANTELMO G., CIPRIANI E., NIGRO M. (2025). From trip purpose to space-time flexibility: a study using floating car data and google popular times. *Transportmetrica B*, Vol. 13, Issue 1, ISSN 21680566, DOI 10.1080/21680566.2024.2440596.
2. PETRELLI, M., CIPRIANI, E., CRISALLI, U., GEMMA, A., MANNINI, L. (2025). Transit network design: A sustainability-oriented methodology for the management of large bus networks and low emission zones. *Case Studies on Transport Policy*, vol. 19, ISSN 2213624X, DOI: 10.1016/j.cstp.2025.101385.
3. GEMMA A., MANNINI L., CRISALLI U., CIPRIANI E. (2024). Improving Urban Travel Time Estimation Using Gaussian Mixture Models. *IEEE Transactions on Intelligent Transportation Systems*, vol. 25, ISSN: 15249050, DOI: 10.1109/TITS.2024.3390792.
4. GEMMA A., CIPRIANI E., CRISALLI U., MANNINI L. (2023). Automated Vehicles' Effects on Urban Traffic Flow Parameters *LECTURE NOTES IN INTELLIGENT TRANSPORTATION AND INFRASTRUCTURE*, vol. PART F1378, ISSN: 25233440, DOI: 10.1007/978-3-031-23721-8\_49.
5. GEMMA A., MANNINI L., BUSILLO V., CIPRIANI E., CRISALLI U. (2022). Case studies of integration between activity-based demand models and multimodal assignment. *Research in Transportation Economics*, vol. 92, ISSN: 0739-8859, DOI: 10.1016/J.RETREC.2021.101119.

6. CIPRIANI E., GEMMA A., MANNINI L., CARRESE S., CRISALLI U. (2021). Traffic demand estimation using path information from Bluetooth data. *Transportation Research Part C: Emerging Technologies*, 133, 103443.
7. CARRESE S., CIPRIANI E., COLOMBARONI C., CRISALLI U., FUSCO G., GEMMA A., ISAENKO N., MANNINI L., PETRELLI M., BUSILLO V., SARACCHI S. (2021). Analysis and monitoring of post-COVID mobility demand in Rome resulting from the adoption of sustainable mobility measures. *Transport Policy*, Volume 111, pp. 197 – 215.
8. GEMMA A., MANNINI L., CARRESE S., CIPRIANI E., CRISALLI U. (2021). A Gaussian mixture model and data fusion approach for urban travel time forecast. *7th International Conference on Models and Technologies for Intelligent Transportation Systems, MT-ITS 2021*.
9. CARRESE S., CIPRIANI E., CRISALLI U., GEMMA A., MANNINI L. (2021). Bluetooth Traffic Data for Urban Travel Time Forecast. *Transportation Research Procedia*, 52, pp. 236–243.
10. BRINCHI S., CARRESE S., CIPRIANI E., COLOMBARONI C., CRISALLI U., FUSCO G., GEMMA A., ISAENKO N., MANNINI L., PETRELLI M. (2021). Covid-19 Transport Analytics: Analysis of Rome mobility during Coronavirus Pandemic era. *Advances in Intelligent Systems and Computing*, Vol. 1278, pp. 1045-1055.
11. BRINCHI S., CARRESE S., CIPRIANI E., COLOMBARONI C., CRISALLI U., FUSCO G., GEMMA A., ISAENKO N., MANNINI L., PATELLA S.M., PETRELLI M. (2020). On transport monitoring and forecasting during COVID-19 Pandemic in Rome. *Transport and Telecommunication*, Vol. 21, Issue 4, pp. 275-284.
12. CIPRIANI E., CRISALLI U., GEMMA A., MANNINI L. (2020). Integration between activity-based demand models and multimodal assignment: some empirical evidences. *Case Studies on Transport Policy* (article in press; doi: 10.1016/j.cstp.2020.04.004).
13. CIPRIANI E., MANNINI L., MONTEMARANI B., NIGRO M., PETRELLI M. (2019). Congestion pricing policies: Design and assessment for the city of Rome, Italy. *Transport Policy*, Vol. 80, pp. 127-135.
14. CISTERNA C., GIORGIONE G., CIPRIANI E., VITI F. (2019). Supply characteristics and membership choice in round-Trip and free-floating carsharing systems. *MT-ITS 2019 - 6th International Conference on Models and Technologies for Intelligent Transportation Systems*.
15. CIPRIANI E., FUSCO G., PATELLA S.M., PETRELLI M., QUADRIFOGLIO L. (2019). Transit network design for small-medium size cities. *Transportation Planning and Technology* 42(1), pp. 84-97.
16. MANNINI L., CIPRIANI E., CRISALLI U., GEMMA A., VACCARO G. (2019). Improving the assessment of transport external costs using FCD data. *Advances in Intelligent Systems and Computing*, 879, pp. 131-138.
17. MANNINI L., CIPRIANI E., CRISALLI U., GEMMA A. (2018). FCD data for on-street parking search time estimation. *IET Intelligent Transport Systems*, 12(7), pp. 664-672.
18. CANTELMO G., VITI F., CIPRIANI E., NIGRO M. (2018). A utility-based dynamic demand estimation model that explicitly accounts for activity scheduling and duration. *Transportation Research Part A: Policy and Practice* 114, pp. 303-320.
19. NIGRO M., CIPRIANI E., DEL GIUDICE A. (2018). Exploiting floating car data for time-dependent Origin–Destination matrices estimation. *Journal of Intelligent Transportation Systems: Technology, Planning, and Operations* 22(2), pp. 159-174.
20. GAO Z., ZHANG N., MANNINI L., CIPRIANI E. (2018). The Car Following Model with Relative Speed in Front on the Three-Lane Road. *Discrete Dynamics in Nature and Society* 2018, 7560493.

21. NIGRO M., ABDELFAH A., CIPRIANI E., FUSCO G., GEMMA A. (2018). Dynamic O-D demand estimation: Application of SPSA AD-PI method in conjunction with different assignment strategies. *Journal of Advanced Transportation* 2018, 2085625.
22. CARRESE S., CIPRIANI E., MANNINI L., NIGRO M. (2017). Dynamic demand estimation and prediction for traffic urban networks adopting new data sources. *Transportation Research Part C*, Vol. 81, pp. 83-98 DOI: 10.1016/j.trc.2017.05.013.
23. CIPRIANI E., NIGRO M. (2017). Dynamic travel demand estimation and prediction methods (Book Chapter). *Intelligent Transport Systems (ITS): Past, Present and Future Directions*, pp. 231-250.
24. MANNINI L., CIPRIANI E., CRISALLI U., GEMMA A., VACCARO G. (2017). On-Street Parking Search Time Estimation Using FCD Data. *Transportation Research Procedia*, 27, pp. 929-936.
25. CANTELMO G., VITI F., CIPRIANI E., NIGRO M. (2017). A Utility-based Dynamic Demand Estimation Model that Explicitly Accounts for Activity Scheduling and Duration. *Transportation Research Procedia*, 23, pp. 440-459.
26. ANTONIOU C., BARCELÓ J., BREEN M., BULLEJOS M., CASAS J., CIPRIANI E., CIUFFO B., DJUKIC T., HOOGENDOORN S., MARZANO V., MONTERO L., NIGRO M., PERARNAU J., PUNZO V., TOLEDO T., VAN LINT H. (2016). Towards a generic benchmarking platform for origin-destination flows estimation/updating algorithms: Design, demonstration and validation. *Transportation Research Part C*, 66, pp. 79-98 (doi:10.1016/j.trc.2015.08.009).
27. ADACHER L., CIPRIANI E. (2015). The global optimization of signal settings and traffic assignment combined problem: A comparison between algorithms. *Advances in Transportation Studies*, 36, pp. 35-48.
28. MANNINI L., CARRESE S., CIPRIANI E., CRISALLI U. (2015) On the Short-Term Prediction of Traffic State: an Application on Urban Freeways in Rome. In *Transportation Research Procedia* (2015) pp. 176-185, doi: 10.1016/j.trpro.2015.09.067.
29. NIGRO M., CIPRIANI E., DI PIETRANTONIO L., ABDELFAH A. (2015) The influence of users' route choice for the dynamic travel demand estimation. In *Transportation Research Procedia* (2015) pp. 850-859, doi: 10.1016/j.trpro.2015.09.038.
30. DJUKIC, T., J. BARCELÒ, L. MONTERO, M. BULLEJOS, E. CIPRIANI, J.W.C. VAN LINT, S.P. HOOGENDOORN (2015). Advanced traffic data for dynamic OD demand estimation: The state of the art and benchmark study. In: *TRB 2015 Annual Meeting*. Washington DC, January 2015.
31. CANTELMO G, VITI F, CIPRIANI E, NIGRO M (2015). Improving the reliability of a two-step dynamic demand estimation approach by sequentially adjusting generations and distributions. In: *TRB 2015 Annual Meeting*. Washington DC, January 2015.
32. CANTELMO G, CIPRIANI E, GEMMA A, NIGRO M (2014). An adaptive bi-level gradient procedure for the estimation of dynamic traffic demand. *IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS*, ISSN: 1524-9050, doi: 10.1109/TITS.2014.2299734.
33. CIPRIANI E, CRESCENZI L, NIGRO M (2014). Behavioral models for the estimation of the air transport demand: the case study of Rome-London flight connection. *PROCEDIA: SOCIAL & BEHAVIORAL SCIENCES*, ISSN: 1877-0428, doi: 10.1016/j.sbspro.2014.01.040.
34. CIPRIANI E, GEMMA A, NIGRO M (2014). A Road Network Design Model for Large-Scale Urban Network. In: J.F. de Sousa, R. Rossi. *COMPUTER-BASED MODELLING AND OPTIMIZATION IN TRANSPORTATION. ADVANCES IN INTELLIGENT SYSTEMS AND*

- COMPUTING, vol. 262, Springer International Publishing Switzerland, ISBN: 978-3-319-04629-7, ISSN: 2194-5357, doi: 10.1007/978-3-319-04630-3\_11.
35. CANTELMO G, VITI F, TAMPÈRE C.M.J., CIPRIANI E, NIGRO M (2014). A TWO-STEP APPROACH FOR THE CORRECTION OF THE SEED MATRIX IN THE DYNAMIC DEMAND ESTIMATION. In: TRB 2014 Annual Meeting. Washington DC, January 2014.
  36. ANTONIOU C, CIUFFO B, CASAS J, BARCELÒ J, CIPRIANI E, MONTERO L, DJUKIC T, MARZANO V, NIGRO M, BULLEJOS M, PERARNAU J, BREEN M, PUNZO V, TOLEDO T (2014). A framework for the benchmarking of OD estimation and prediction algorithms. In: TRB 2014 Annual Meeting. Washington DC, January 2014.
  37. CIPRIANI E, NIGRO M, FUSCO G, COLOMBARONI C (2013). Effectiveness of link and path information on simultaneous adjustment of dynamic o-d demand matrix. European transport research review, ISSN: 1867-0717.
  38. FUSCO G, BIELLI M, CIPRIANI E, GORI S, NIGRO M (2013). Signal settings synchronization and dynamic traffic modelling. EUROPEAN TRANSPORT/TRASPORTI EUROPEI, vol. 53, ISSN: 1825-3997.
  39. CIPRIANI E, GEMMA A, NIGRO M (2013). A bi-level gradient approximation method for dynamic traffic demand estimation: sensitivity analysis and adaptive approach. In: IEEE ITSC 2013. Proceedings IEEE Conference On Intelligent Transportation Systems, p. 2100-2105, ISBN: 978-1-4799-2914-6, ISSN:2153-0009, The Hague, October 6-9, 2013.
  40. NIGRO M, CIPRIANI E., COLOMBARONI C., FUSCO G. (2012). THE INFLUENCE OF LINK, PATH AND DEMAND MEASURES ON THE DYNAMIC OD MATRIX ESTIMATION . In: Abstracts of the 12th International Conference "Reliability and Statistics in Transportation and Communication". Riga, ottobre 2012, ISBN: 978-9984-818-49-8.
  41. Cipriani E., Gori S., Petrelli M. (2012). "Transit network design: a procedure and an application to a large urban area", Transportation Research Part C 20 (2012), pp. 3-14.
  42. Cipriani E., Florian M., Mahut M., Nigro M. (2011). "A gradient approximation approach for adjusting temporal origin-destination matrices" Transportation Research Part C 19 (2011), pp. 270–282.
  43. Cipriani E., Fusco G., Nigro M. (2011). "Network reliability methodology for unusual events", in Proceedings of SIDT 2009 International Conference - In: L.Mussone, U.Crisalli. Transport management and land-use effects in presence of unusual demand, Milan, Italy. Franco Angeli, ISBN: 9788856841749, pp. 101-115.
  44. Cipriani E., Colombaroni C., Fusco G., Mannini L. (2011). "Validation of Macro Traffic Relationship Combinig Micro and Macro Data Experimental Analyses", 2nd Conference on Models and Technologies for Intelligent Transportation Systems, 22-24 June, 2011, Leuven, Belgium.
  45. Cipriani E., Colombaroni C., Fusco G., Nigro M. (2011). "Effectiveness of Link and Path Information on Simultaneous Adjustment of Dynamic OD", 2nd Conference on Models and Technologies for Intelligent Transportation Systems, 22-24 June, 2011, Leuven, Belgium.
  46. Cipriani E., Florian M., Mahut M., Nigro M. (2010) "Investigating the efficiency of a gradient approximation approach for solution of dynamic demand estimation

- problem” in “New Developments in Transport Planning: Advances in Dynamic Traffic Assignment”, Frederix, R., Tampère C., Viti F., Immers L. (Eds.), Cheltenham, UK - Northampton, MA, USA: Edward Elgar, ISBN: 978-1-84844-963-3.
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