

***Prof. Tullio Giuffrè***

***Resumè***



**Enna, November 2015**

### **Key Qualifications:**

Tullio GIUFFRE' is Associate Professor of Road, Railways and Airport since 2014 at the Faculty of Engineering and Architecture of the Kore Enna University.

More than five years of academic and consulting activities within infrastructures sectors including traffic analysis, road safety analysis, road and airport design, infrastructures pavement management. He achieved high skills and expertise in urban infrastructures planning both from design and operations point of view.

At the present he is teacher of Road, Railways and Airport Design and Construction at the course of Civil Engineering Master degree and at Architectural Master degree.

He is member of:

- Italian Society of Transport Infrastructures since 2003;
- Italian Professional Engineer register since 2002;
- Board of Road and Airport Research Interuniversity Italian Association from 2009;
- Board of PhD in Design of Mobility System since 2009;
- Board of PhD in Aeronautical Technologies and Infrastructures since 2009.
- Italian Society for Transportation Policy since 2014.

As consultant he has carried out several infrastructures design, traffic analysis and studies, infrastructures environmental evaluation.

He is author of more than 50 papers on international and national reviews on issues related to planning and management of transport infrastructures and their relationship with land use and environment.

### **Education**

He got a first-class degree in Civil Transportation Engineering (degree course lasting five years) during 2000/2001 academic year at Palermo University. His degree thesis, "The trial in virtual reality for user-road interaction analysis", has been deserved mention by Degree Commission.

Immediately after degree, he collaborated on legislative activities of Sicily Region on the subject of local public transport management and planning.

In January 2003, he won a competitive state exam for admission to Ph. Doctorate on the subject of Geodesy and Geomatic at Doctorate School of Politecnico di Milano. Into domain of Doctorate School, he also followed courses of GIS, Statistical Analysis, advanced methods of Mathematics, GPS, Images Analysis and Photo interpretation.

From February 2003 to February 2006 he participated a research program at Politecnico di Milano – Road Infrastructures division – on the subject of "Methodology of demand mobility survey and analysis for district infrastructures plan".

During 2003/2004 academic year, he collaborated on teaching activities of "Management and maintenance of Road Infrastructures" course of Civil Engineering Bachelor's degree at Politecnico di Milano. During 2003/2004 and 2004/2005 academic years he also collaborated on teaching activities of "Road Infrastructures Theory" course of Civil Engineering Master degree at Politecnico di Milano.

From June to December 2005 he participated on research program "Study of conversion from four to three lanes safety improvement using Bayesian method analysis", hosted by Ryerson Polytechnic of Toronto (CA) and Texas Transportation Institute at Texas A&M University (USA).

From May 2009 to April 2014, he has been Assistant Professor of Road, Railways and Airport at Università Kore di Enna.

From May 2014 he is Associate Professor of Road, Railways and Airport at Università Kore di Enna.

Tullio Giuffrè participated in several congresses and tutorials, on local and national area; in many cases he was called for presentation of his own papers.

Area of scientific interests includes: road traffic risk analysis, road infrastructures planning and design, road infrastructures environmental evaluation.

Main articles printed on journals or proceedings of national and international congresses (2010-2015):

- Bell M.C., Galatioto F., Giuffrè T., Tesoriere G., (2010). “**An extended analysis of redlight violation model using traffic micro-simulation**”. In: PROCEEDINGS OF 8TH MALAYSIAN ROAD CONFERENCE "Towards Sustainable Road Development and Operations". Kuala Lumpur, 10-13 October, 2010, vol. 2, p. 56-68
- Fasone V., Giuffrè T., Maggiore P. (2012). “**Multi-Airport System as a Way of Sustainability for Airport Development: Evidence from an Italian Case Study**”. Procedia Social & Behavioral Sciences, vol. 53, p. 96-105, ISSN: 1877-0428, doi: 10.1016/j.sbspro.2012.09.863
- Giuffrè T., Siniscalchi S. M., Tesoriere G. (2012). “**A Novel Architecture of Parking Management for Smart Cities**”. Procedia: Social & Behavioral Sciences, vol. 53, p. 16-28, ISSN: 1877-0428, doi: 10.1016/j.sbspro.2012.09.856
- Bell M. C., Galatioto F., Giuffrè T., Tesoriere G. (2012). “**Analysis and Modelling of Effects of Traffic Light Operations Variability to Violation Rates at Junction**”. Modern Applied Science, vol. 6, p. 53-61, ISSN: 1913-1844, doi: 10.5539/mas.v6n10p53
- Giuffrè O., Giuffrè T., Granà A., Marino R. (2012). “**Researching a Capacity Model for Multilane Roundabouts with Negotiation of the Right-of-Way between Antagonist Traffic Flows**”. Modern Applied Science, vol. 6, p. 2-12, ISSN: 1913-1844, doi: 10.5539/mas.v6n5p2
- Bell M. C., Galatioto F., Giuffrè T., Tesoriere G. (2012). “**Novel Application of Red-Light Runner Proneness Theory within Traffic Microsimulation to an Actual Signal Junction**”. Accident Analysis And Prevention, vol. 46, p. 26-36, ISSN: 0001-4575
- Barone R. E., Giuffrè T., Siniscalchi S. M., Morgano M., Tesoriere G. (2013). “**Architecture for Parking Management in Smart Cities**”. Iet Intelligent Transport Systems, vol. 47 , pp.1-8, ISSN 1751-956X, doi: 10.1049/iet-its.2013.0045
- Galatioto F., Franco P., Giuffrè T., Campisi T. (2013) “**The K\_Road: Safety Application for an Innovative Road Accidents Acquisition.**” In: 9th ITS European Congress / Dublin, Ireland, 4-7 June 2013
- Giuffrè O., Granà A., Giuffrè T., Marino R. (2013). “**Accounting for Dispersion and Correlation in Estimating Safety Performance Functions. An overview starting from a case study**”. Modern Applied Science, vol. 7, p. 11-23, ISSN: 1913-1844, doi: 10.5539 / mas.v7n2p1
- Giuffrè O., Granà A., Giuffrè T., Marino R. (2013). “**Modeling traffic safety at urban four-leg signalized intersections**”. In: Urban Transport XIX. Transactions on the Built Environment. WIT Transactions On The Built Environment, vol. 130, p. 733-743, C. A. BREBBIA, Wessex Institute of Technology , ISSN: 1746-4498, doi: 10.2495/UT130591

- Giuffrè O., Granà A., Giuffrè T., Marino R. (2014). “*Estimating traffic operations at multi-lane roundabouts: a case study*”. Arpn Journal of Engineering and Applied Sciences, Vol. 9, No. 2, February 2014
- Giuffrè O., Granà A., Giuffrè T., Marino R., Marino S. (2014). “*Estimating the Safety Performance Function for Urban Unsignalized Four-Legged One-Way Intersections in Palermo, Italy*”. Archives of Civil Engineering, vol. 60, p. 41-54, ISSN: 1230-2945, doi: 10.2478/ace-2014-0002
- Fasone V., Giuffrè T., Messineo A. (2014). “*Ex-ante assessment of the implementation of an energy management policy in Northern Africa*”. Int. J. Energy Technology and Policy, Vol. 10, Nos. 3/4, 2014, pp. 221 – 234, ISSN print: 1472-8923
- Collotta M., Giuffrè T., Pau G., Scatà G. (2014). “*Smart Traffic Light Junction Management Using Wireless Sensor Networks*”. WSEAS TRANSACTIONS on COMMUNICATIONS, E-ISSN: 2224-2864648, Vol. 13, 2014
- Giuffrè O., Granà A., Giuffrè T., Marino R., Campisi T. (2015). “*An Italian Experience on Crash Modeling for Roundabouts*”. Journal of Engineering and Applied Sciences, ISSN 1819-6608. Vol. 10, No. 6, April 2015

**Language**

Language	Reading	Speaking	Writing
Italian	<i>Mother - tongue</i>		
English	<i>Excellent</i>	<i>Excellent</i>	<i>Excellent</i>
Français	<i>Good</i>	<i>Basic</i>	<i>Basic</i>

Enna, November 29 2015

*Prof. Tullio Giuffrè*  
