

## PERSONAL INFORMATION

## Olivera Petrovska



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Sex Female | Date of birth 15/05/1977 | Nationality Macedonian

## WORK EXPERIENCE

12/2016 – present

**Associate professor**

Faculty of Technical Sciences, University Mother Teresa - Skopje

- Education of students
- Business or sector** Department for Traffic and Transport

15.10.2019 – present

**Vice Dean for education**

Faculty of Technical Sciences, University Mother Teresa - Skopje

09/2006 - 07/2015

**Teaching Associate**

Faculty of Technology and Technical Sciences Veles, University st. Kliment Ohridski Bitola

- Education of students

09/2006 – 12/2013

**Teaching Associate**

Faculty of Technical Sciences, University st. Kliment Ohridski Bitola

- Education of students

**Business or sector** Department for Traffic and Transport

09/2002 - 06/2006

**Teaching Assistant**

Faculty of Technical Sciences, University st. Kliment Ohridski Bitola

- Education of students

**Business or sector** Department for Traffic and Transport

## EDUCATION AND TRAINING

11/2011 - 02/2015

**PhD – Doctor of Philosophy of Technical Science**

Faculty of Technical Sciences, University St. Kliment Ohridski Bitola

09/2005 - 04/2010

**MSc of Traffic Science**

Faculty of Technical Sciences, University St. Kliment Ohridski Bitola

10/1996 – 09/2001

**BSc in Traffic engineering**

Faculty of Technical Sciences, University St. Kliment Ohridski Bitola

## PERSONAL SKILLS

Mother tongue(s)

Macedonian

Other language(s) English, French – basic level, Serbian

Computer skills and competences ▪ Auto CAD, Corel, Mat LAB, Microsoft office.

Driving licence B

## ADDITIONAL INFORMATION

Publications	<ul style="list-style-type: none"> <li>▪ O. Antoska, <b>Airbus A – 380 as a modern way of transportation in tourism</b>, Assotiate Chair of the Scientific Committee, 24<sup>th</sup> EuroCHRIE Congress, Greece, 2006</li> <li>▪ O. Antoska, S. Zlatkovski, <b>The brake system as a most important safety system for all participants in the traffic</b>, VIII Simpozium sa međunarodnim učeščem, Novi Sad, Jugoslavija, 2006</li> <li>▪ <b>O. Petrovska</b>, S. Deskovski, <b>Prediction of the delays of the aircraft due to reduced visibility, applying the analysis of time series</b>, International Scientific Symposium, Prometni sustavi, vol. 31, no.5-6, pp. 471-473, Zagreb, 2011</li> <li>▪ <b>O. Petrovska</b>, G. Reckoska, Transport of Dangerous Goods by Air, Međunarodni simpozijum, Novi Horizonti 2011, Zbornik radova, Saobraćajni Fakultet Doboj, 2011</li> <li>▪ O. Petrovska, U. R. Shikoska, Aircraft precision landing using integrated GPS/INS system, Conference Proceedings, IV International Scientific Conference, Transport Problems, International Scientific Jurnal, ISBN 978-83-935232-0-7, Silesian University of Technology, Faculty of Transport, pp. 518-525, Katowice, Poland, 2012</li> <li>▪ O. Petrovska, Attitude determination of aircraft using GPS, International Scientific Symposium, Prometni sustavi, vol. 32, no.5-6, pp. 458-460, Zagreb, 2012</li> <li>▪ <b>O. Petrovska</b>, V. Antoska Knights, S. Deskovski, <b>Algorithm for Automatic Aircraft Landing using GPS</b>, Conference Proceedings, VII International Scientific Conference, Transport Problems, International Scientific Jurnal, ISSN 1896-0596, Silesian University of Technology, Faculty of Transport, pp. 445-452, Katowice, Poland, 2015</li> <li>▪ <b>O. Петровска</b>, В. Антоска Книгхтс, С. Десковски, <b>Сателитски навигациски систем за автоматско слетување на воздухоплов</b>, Conference Proceedings, XII International Conference on Society for Electronic, Telecommunications, Automatics and Informatics of the Republic of Macedonia (ETAI 2015), ETAI Catalogue no. ISBN 978-9989-630-76-7, Ohrid, Macedonia, 2015</li> <li>▪ S. Deskovski, V. Sazdovski, <b>O. Petrovska</b>, <b>Guidance and Control Laws for Flying Wing Aerial Vehicles</b>, Conference Proceedings, XII International Conference on Society for Electronic, Telecommunications, Automatics and Informatics of the Republic of Macedonia (ETAI 2015), ETAI Catalogue no. ISBN 978-9989-630-76-7, Ohrid, Macedonia, 2015</li> <li>▪ V. Antoska Knights, M. Stankovski, S. Nusev, D. Temeljkovski, <b>O. Petrovska</b>, <b>Robots for Safety and Health at Work</b>, Conference Proceedings, International Conference for Regional Collaboration, OSH Bon Ton, pp. 23-28, Ohrid, Macedonia, 2015</li> <li>▪ <b>O. Petrovska</b>, V. Antoska Knights, Andon Petrovski, <b>Aircraft Landing using high accurate Ground – Based Landing System</b>, XXIII International Transport Symposium, Transport Systems, vol. 36, no.1-2, pp. 62-68, Zagreb, 2016</li> <li>▪ <b>O. Petrovska</b>, V. Antoska Knights, S. Deskovski, Application of Automatic Landing using GPS – GBAS, International Scientific Conference on Information, Communication and Energy Systems and Technologies ICEST 2016, 28-30 June, Ohrid, Macedonia, 2016</li> <li>▪ O. Petrovska, J. Hristoski, D. Pavleski, A. Petrovski, Development of a sustainable urban mobility plan for the city center of Bitola, 4rd International Conference, Towards Sustainable Development Conference, October, Skopje, SEEJSD, Vol.5 (2/2021), pp. 166-173</li> <li>▪ Jovan Hristoski, Goran Jovanovic, Andon Petrovski, Olivera Petrovska, Sustainable Urban Mobility Plan for Municipality of Veles 2019-2030, Journal of Road and Traffic Engineering, Scientific Jurnal of Serbian Road Association LXVI, 1/2020, pp. 19-24</li> <li>▪ <b>Olivera Petrovska</b>, Andon Petrovski, Vesna Antoska-Knights, Jovan Hristoski, Darko Spasenovski. Identification of black spots locations for improving of traffic safety on state roads in R. N. Macedonia, Proceedings of the 10-th BH Congress on transport infrastructure and transport, pp. 157-161, Sarajevo, 2019</li> <li>▪ Jovan Hristoski, Goran Jovanovic, Andon Petrovski, <b>Olivera Petrovska</b>. Sustainable urban</li> </ul>
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	<p>mobility plan for municipality of Veles 2019-2030, Proceedings of 7-th International Conference "Towards a Humane City", pp. 41 -48, Novi Sad, 2019</p> <ul style="list-style-type: none"> <li>▪ <b>O. Petrovska</b>, J. Hristoski, A. Petrovski, M. Biljanovski, Unapređenje bezbednosti saobraćaja sa primenom novih standarda za saobraćajnu signalizaciju i opremu na Državnom putu A2, deonica Skoplje – Tetovo – Gostivar, R. Makedonija, Zbornik radova XII konferencije sa međunarodnim ucescem, pp. 370-375, TESI Konferencija o TEhnikama Saobraćajnog Inženjerstva, Vrnjaska Banja, Oktomvri, 2018</li> <li>▪ <b>O. Petrovska</b>, A. Petrovski, J. Hristoski, Introducing traffic calming measures and increasing traffic safety in the school zones – "11th October" primary school in Skopje, South East European Journal of Sustainable Development, 3rd Towards Sustainable Development Conference, Journal of Sustainable Development, ISSN 2545-4471 October, Skopje, 2019, Vol.4 (1/2020) pp. 22-28</li> <li>▪ Jovan Hristoski, <b>Olivera Petrovska</b>, Andon Petrovski, Sustainable urban mobility plans for a successful future of cities, South East European Journal of Sustainable Development, 3rd Towards Sustainable Development Conference, Journal of Sustainable Development, ISSN 2545-4471 October, Skopje, 2019, Vol.4 (2/2020) pp. 85-89</li> <li>▪ Jovan Hristoski, <b>Olivera Petrovska</b>, Andon Petrovski. Implementation of EN1317 norm for guardrails in R. of Macedonia - necessity or essential?, 2-nd International Conference Towards Sustainable Development, Skopje, 2018</li> <li>▪ <b>Olivera Petrovska</b>, Vesna Antoska-Knights, Andon Petrovski, Jovan Hristoski, Intelligent vehicles, International Conference TSD, SEEJSD Journal of Sustainable Development, ISSN 2545-4471, Vol.3 (1/2019) Skopje, 2018</li> <li>▪ Vesna Antoska-Knights, <b>Olivera Petrovska</b>, Mathematical and numerical model of the steam turbine for sustainable energy solutions, International Conference TSD, SEEJSD Journal of Sustainable Development, ISSN 2545-4471, Vol.3 (1/2019) Skopje, 2018</li> <li>▪ V.A. Knights, Z. Gacovski, S.Deskovski, <b>O.Petrovska</b>, Guidance and Control System for Platoon of Autonomous Mobile Robots, Journal of Electrical Engineering 6 (2018) 281-288, doi: 10.17265/2328-2223/2018.05.005</li> <li>▪ <b>Olivera Petrovska</b>, Vesna Antovska-Knights, Stojce Deskovski, Information and communication technologies (ICT) implemented in smart cars, South East European Journal of Sustainable Development   Vol. 1 (1/2017), pp.74-80, Skopje 2017</li> <li>▪ <b>O. Petrovska</b>, A. Petrovski, Comparative Analysis of the Capacity of classic intersection regulated with traffic light signals and roundabouts, Proceedings of International Scientific Symposium, Prometni sustavi, vol. 32, no.5-6, pp. 458-460, Zagreb, 2017</li> <li>▪ <b>Olivera Petrovska</b>, Andon Petrovski, Vesna Antoska-Knights, Jovan Hristoski, Darko Spasenovski. Identification of black spots locations for improving of traffic safety on state roads in R. N. Macedonia, Proceedings of the 10-th BH Congress on transport infrastructure and transport, pp. 157-161, Sarajevo, 2019</li> <li>▪ <b>Petrovska, O.</b>, Hristoski,J., Petrovski, A., Spasenovski, D., Stoilovski, I., Installing vehicles restraint systems on the state roads in RN Macedonia according to EN1317 standard, Third International Conference "Transport for Today's Society" Proceedings, October, 2021, Bitola, ISBN 978-9989-786-63-1, pp. 38-41</li> <li>▪ <b>O. Petrovska</b>, J. Hristoski, A. Petrovski, Development of urban mobility for introduction of a pedestrian zone in the center of Bitola using a microsimulation model, 8th International Conference Towards a Humane City, Novi Sad, Serbia, November, Conference proceedings, ISBN 978-86-6022- <b>O. Petrovska</b>, J. Hristoski, D. Pavleski, A. Petrovski, D. Spasenovski, Traffic study for development of urban mobility in the center of Skopje introducing a pedestrian area, , 11th B&amp;H Congress on Transport Infrastructure and Transport / roads, September, Sarajevo, 2021, ISSN 1840-2763, pp. 318-325</li> <li>▪ <b>O. Petrovska</b>, J. Hristoski, D. Pavleski, A. Petrovski, Development of a sustainable urban mobility plan for the city center of Bitola, 4rd International Conference, Towards Sustainable Development Conference, October, Skopje, SEEJSD, Vol.5 (2/2021), pp. 166-173371-7, pp. 189-196</li> <li>▪ E. Jajaga, V. Rushiti, B. Ramadani, Daniel Pavleski, A. Cantelli-Forti, B. Stojkovska, O. Petrovska, An Image-based Classification Module for Building a Data Fusion Anti-drone System, DOI: 10.1007/978-3-031-13324-4_36</li> </ul>
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<p>Projects</p> <p>Traffic studies</p> <p>International Projects</p>	<ul style="list-style-type: none"> <li>▪ Anti-Drones – Innovative concept for detecting and neutralise “killer-drones”, SPS G5633, September 2019, National laboratory (RaSS) – Italy, North Kazakhstan state University – Kazakhstan, Mother Teresa University Skopje</li> <li>▪ Skopje Urban Transport – Twinning Partnership for Traffic Management and Urban Road Management, project number C25603, 06/2013 – 12/2015</li> <li>▪ Determination of socio-economic impacts on local roads rehabilitated within the project for support of the program for regional and local roads, Public enterprise for State Roads of Republic of Macedonia, financed project from the World Bank, in the period from 20.12.2013 to 20.07.2014</li> <li>▪ Replacement of guardrails along Road Corridor X of the former Yugoslav Republic of Macedonia, TRA-INFR-MKD-DD-03, CONNECTA Consortium (led by Mott Mc Donald), EuropeAid/137850/IH/SER/MULTI, Проект на Министерството за транспорт и врски, 2018 – 2019</li> <li>▪ Improving road safety conditions (risk elimination) along high risk sections in the indicative extension of the TEN-T core/comprehensive road network in the Western Balkans, TRA-CRM-REG-RS-DD-05, CONNECTA Consortium (led by Mott Mc Donald), EuropeAid/137850/IH/SER/MULTI, Проект на Министерството за транспорт и врски, 2020 – 2021</li> </ul> <ul style="list-style-type: none"> <li>▪ Preliminary design for the construction of a BUS rapid transit system (BUS Metro) in the City of Skopje, of the alignment Gjorce Petrov - Novo Lisice (West – East)</li> <li>▪ Traffic study and preliminary traffic design for an optimal traffic solution in the center of the City of Skopje, 2020</li> <li>▪ Traffic study and Preliminary design for the introduction of a traffic regime in the central city area in the city of Bitola, 2020</li> <li>▪ Preliminary design with dynamic microscopic simulation for the introduction of traffic mode on Dovledzik Street in Bitola, 2019</li> <li>▪ Preliminary traffic design with dynamic microscopic simulation for the introduction of a traffic regime on Lazo Trpovski Street in Chair Municipality in Skopje, 2019</li> <li>▪ Traffic study and Preliminary design for the impact of the construction of the multi-purpose complex Skopje East Gate on the surrounding street network in the City of Skopje, 2018</li> <li>▪ Preliminary traffic design with dynamic microscopic simulation for the introduction of a traffic regime in the central city area in the city of Ohrid, 2018</li> </ul> <p><b>ANTI-DRONES – Innovative Concept to Detect, Recognize and Track “Killer-Drones”</b>, from the NATO SPS no. G5633 between CNIT - Radar and Surveillance Systems National Laboratory (CNIT-RASS), Italy, Pisa - project leader, and project partners North Kazakhstan State University, Petropavlovsk, Kazakhstan and Mother Teresa University (MTU), Skopje, Republic of North Macedonia, September 2019 – September 2022</p>
<p>Memberships</p> <p>P.E. Licence</p>	<ul style="list-style-type: none"> <li>▪ Member of the Chamber of Certified Architects and Certified Engineers of RM</li> <li>▪ Member of the Association of Traffic Engineers of the Republic of Macedonia</li> <li>▪ Member of the Working Group for Traffic Safety Management, 07/2018, Government of RM, Ministry of Transport and Communications</li> <li>▪ Member of Central Commission of the 35th State Completion of Secondary Electro-Technical, Machine and Traffic Schools, Elected in Asuc Boro Petrushevski, May 2018</li> <li>▪ Member of Organize Committee "International Conference on Sustainable Development (TSD)", Mother Teresa International Skopje</li> <li>▪ Member of the Scientific Committee of the International Conference on Engineering Technology and Applied Sciences (ICETAS)</li> </ul> <p>Authorization “A” for designing in the field of traffic engineering</p>