Formular për punën shkencore të realizuar
Формулар за реализирана научна работа
Form for realized Scientific Work

Formulari i nënshkruar dhe me email duhet ti dorezohet Dekanit dhe ai e dorezon te pro-rektori për shkencë
Формуларот пополнет и потпишан преку емаил треба се достави до деканот а тој до проректорот за наука.
The form should be delivered signed hard copy and emailed to the Dean of Faculty and he to Vice Rector for Science

Emri Mbiemri (dhe Nënshkrimi) **Име Презиме** (и Потпис)	м-р Даниел Павлески
Titulli akademik (data dhe viti kur eshte marur) **Наставно-научно звање** (датум и год кога е добиена)	Асистент (25.12.2019)
Drejtimi / Fakulteti **Смер / Факултет**	Факултет за технички науки
Fusha e punimeve shkencore (Frascati) **Области на трудовите** (Frascati)	Сообраќајно – транспортно инженерство и планирање

Published Research in the past 5 years (List all papers under proper time category starting with most recent)
Hulumtimi i Publikuar ne 5 vitet e fundit (Listoi te gjitha punimet me renditje kohore, duke filluar nga i fundit)
Публикувани трудови во последните 5 години (Излистај ги сите по хронолошки аспект почнувајќи од последната)

CONFERENCES - Konferencat – Конференции

Local Conference (2015-2020)		
1	Reference	
	Link published	
2	Reference	
	Link published	

National Conference (2015-2020)		
1	Reference	
	Link published	
2	Reference	
	Link published	

International Conference (2015-2020)		
1	Reference	Pavleski, D., Nechoska Koltovska, D., Ivanjko, E., Development of TSCLab: A Tool for Evaluation of the Effectiveness of Adaptive Traffic Control Systems, Book of abstracts of 5th International Conference “New Technologies NT-2019”, 27-29 June, Sarajevo, Bosnia and Hercegovina, 2019.
	Link published	https://link.springer.com/chapter/10.1007/978-3-030-18072-0_44
2	Reference	Pavleski, D., Koltovska Nechoska, D., Ivanjko, E., Evaluation of Adaptive And Fixed Time Traffic Signal Strategies: Case Study of Skopje, Proceedings of Second International Conference “Transport for Today’s Society“, Bitola, Republic of Macedonia, 2018.
	Link published	https://ttsconferencetfb.files.wordpress.com/2019/01/konecen-zbornik-na-trudovi-tts2018.pdf
3	Reference	Pavleski, D., Nechoska Koltovska, D., Ivanjko, E., Evaluation of Adaptive Traffic Control

		System UTOPIA using Microscopic Simulation, Proceedings of 59th International Symposium ELMAR-2017, Special session Intelligent Transport Systems, Zadar, Croatia, 2017.
	Link published	https://ieeexplore.ieee.org/document/8124425
4	Reference	Davidoski Z., Pavleski D., Bombol K., Koltovska Nečoska D., Identification of Hazardous Spots on the Traffic Network by Applying Software Tool - A Case Study, 11th International Conference Road Safety in Local Communities, Vrnjacka Banja, Serbia, 2016.
	Link published	http://bslz.org/bslzdownload/533cc90941c9771924ca4361f4c3dab4

JOURNALS

Local Journal (2015-2020)

1	Reference	
	Link published	
2	Reference	
	Link published	

National Journal (2015-2020)

1	Reference	
	Link published	
2	Reference	
	Link published	

International Journal (2015-2020)

1	Reference	Pavleski D., TSCLab – Traffic Signal Control Laboratory - A tool for performance monitoring and evaluation of adaptive traffic signal control in VISSIM, International transportation (ISSN 0020-9511), Vol. 71, Special edition 1, 2019.
	Link published	https://www.internationales-verkehrswesen.de/international-transportation-issue-1-2019/
2	Reference	
	Link published	

International Journal with Impact Factor ISI Web of Science – Clarivate analytics (2015-2020)

1	Reference	Nechoska Koltovska, D., Ivanjko, E., Pavleski, D., Creating Infrastructure for Urban Mobility: Case Study of Skopje, PROMET - Traffic&Transportation (ISSN: 1848-4069), Vol. 30; No. 4, 2018.
	Link published	https://traffic.fpz.hr/index.php/PROMTT/article/view/2675
2	Reference	
	Link published	

Studies and monographs (Local, National, International publication house) (2015-2020)

1	Reference	
	Link published	
2	Reference	
	Link published	

Books (Local, National, International publication house) (2015-2020)		
1	Reference	
	Link published	
2	Reference	
	Link published	

Projects (2015-2020)		
1	Reference	Roadmap to Sustainable Urban Mobility in South East European Countries, SUMSEEC Project, GIZ ORF-EE, 2017 – 2018.
	Link published	https://balkangreenenergynews.com/wp-content/uploads/2018/11/SUMSEEC-Roadmap-for-SEE_en.pdf
2	Reference	WP5 D5.3 - The CREATE guidelines: pathways to tackling congestion and reducing levels of car use in European cities, CREATE Project, EU`s Horizon2020 research and innovation programme, 2015 – 2018.
	Link published	http://nws.eurocities.eu/MediaShell/GetMediaBytes?mediaReference=id174537

* - International Conference or Journal is considered the one that has at least 50% international members in the editorial board.

CURRICULUM VITAE - CV

PERSONAL INFRORMATION

DANIEL PAVLESKI
Todor Changov 48/7[b], 1000 Skopje, North Macedonia
(+389) 75 247 529
daniel.pavleski@outlook.com
Skype dhany_mk

11/09/1985
Married

EXPERTISE

Areas	Traffic engineering | Transport planning & Modelling | Sustainable urban mobility

WORK EXPERIENCE

26/12/2020 – Денес	**Teaching assistant** Mother Teresa University, Faculty of Technical sciences – Skopje Study program: Traffic engineering and transport planning Teaching and scientific fields: ▪ Traffic management and control (22001) ▪ Transport planning (22005) and ▪ Road traffic safety (22006)
12/08/2019 – 11/09/2019	**Consultant – Local expert for Sustainable urban mobility** GIZ – Office in Skopje Duties and responsibilities: ▪ Workshops with the wide stakeholders on sustainable urban mobility in Municipality of Kumanovo and Municipality of Kavadarci (including training to the wide stakeholders on sustainable urban mobility) ▪ Assessment on Sustainable Urban Mobility developed for Municipality of Kumanovo and Municipality of Kavadarci ▪ Peer review of the white paper on sustainable urban mobility in North Macedonia
25/12/2018 – 25/12/2019	**Head of Public Transport – Monitoring and Control** City of Skopje – Traffic Department, Skopje Duties and responsibilities: ▪ Monitoring of Public Transport performances and time table realization ▪ Monitoring of public transport quality of services provided by transport operators ▪ Working with Automatic Vehicle Location (AVL) system and Smart Ticketing system ▪ Analysis of public transport demand and tariff system
01/03/2012 –25/12/2018	**Advisor for Traffic Management and Analysis** City of Skopje – Traffic Department, Skopje Duties and responsibilities: ▪ Traffic data collection, processing and analysis ▪ Developing traffic signal settings and testing of urban traffic control (UTC) strategies in micro – simulation environment ▪ Functional check of traffic schemes/regimes in micro – simulation environment ▪ Checking and auditing of developed traffic micro-simulation models ▪ Monitoring works for installation, operation and maintenance of road markings, traffic signs, signals and ITS, and monitoring of traffic management and control centre works ▪ Supporting the implementation to the improvements of city`s public transport network and city`s cycling network and participation in preparation of strategies and plans for improving of the urban mobility
15/08/2008 – 01/03/2012	**Associate Transport Planner** City of Skopje – Traffic Department, Skopje Duties and responsibilities: ▪ Travel behaviour data collection, processing and analysis ▪ Preparation of terms of references for traffic studies and design projects ▪ Approving traffic preliminary and detailed design projects ▪ Monitoring of transport modelling projects and approving transport assessment reports ▪ Developing traffic micro–simulation models and working with the Skopje transport model

EDUCATION

2015 – 2018

MSc. in Transport Planning & Traffic Engineering (1.5-y study program) **9.54/10 | 341 ECTS**
"St Kliment Ohridski" University, Faculty of Technical Sciences – Traffic & Transport Department, Bitola
MSc. Thesis: Performance evaluation of adaptive traffic signal control in micro – simulation environment

2004 - 2008

BSc. in Transport Planning & Traffic Engineering (4-y study program) **8.32/10 | 248 ECTS**
"St Kliment Ohridski" University, Faculty of Technical Sciences – Traffic & Transport Department, Bitola
BSc. Thesis: Design of system for automated road traffic accident data processing in Macedonia

2000 - 2004

Technician for Road Traffic & Transport
Secondary School for Traffic and Vehicles "Boro Petrusevski", Skopje

PERSONAL SKILLS

Mother language

Macedonian

Foreign languages

	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spoken production	
English	**B2**	**B2**	**B2**	**B2**	**B2**

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user
Common European Framework of Reference for Languages

Communication skills

- Good written and verbal communication skills

Personal skills

- Well organized, proactive, innovative, flexible, autonomous work, teamwork, sense of responsibility, attention to details.

Other skills

- Strong analytical, researching, modelling, planning, analysing, reporting, problem solving and time management skills

Computer skills

- Proficient user of office software: **Microsoft Office including Outlook and Project**
- Proficient user of transport planning and traffic engineering software: **VISSIM, VisVAP, VISTRO, LISA+, SYNCHRO STUDIO, SIDRA Intersection, HCS+, UTOPIA/SPOT, OMNIA**
- Basic user of transport planning and traffic engineering software: **VISUM, VISUM SAFETY, VISWALK, AIMSUN, CORSIM, SUMO, TRANSYT, S-Paramics, quickGREEN, LinSig**
- Proficient user of drawing software: **AutoCAD, CorelDRAW, AutoTURN, ParkCAD, TORUS**
- Basic user of database software: **Access, SQL**
- Basic user of programming/scripting languages: **VBA, VB.NET, Matlab, Python**
- Basic user of GIS software: **ArcMAP, QGIS**
- Basic user of 3D modelling software: **3DS Max, SketchUp**

Driving license

- AM, B, B1, BE, C, C1, C1E and CE

ADDITONAL INFORMATION

Professional memberships

- Association of traffic engineers of Macedonia
- Chamber of certified architects and certified engineers of Macedonia
- City council for Road Traffic Safety in Skopje
- Skopje Lab – Innovation centre of City of Skopje
- CIVITAS Thematic group for integrated planning
- CIVITAS Thematic group for transport telematics

Professional certificates/licences

- Certificate for **Design in traffic engineering (B category)**, Chamber of certified architects and certified engineers of Macedonia, Skopje, since 2010

Course, training & seminar certificates

- Certificate for successfully completing of 5-days training course on **"Sustainable Urban Mobility plans for Local experts"**, organized by the GIZ Open Regional Fund for South-East Europe - Energy Efficiency (ORF-EE), SUMSEEC project, 2019
- Certificates for successfully completing of the e-courses related to Intelligent transport systems (ITS) and Cooperative intelligent transport systems (C-ITS): **"Introduction to ITS and C-ITS", "ITS and C-ITS user services", "TMS and roadside technologies for ITS", "Standards, architectures and communication technologies for ITS and C-ITS", "Impact assessment of ITS and C-ITS systems", "Financial incentives and business and**

	procurement models for C-ITS deployment", "Cost-benefit analyses of ITS services", "Guidance in deploying ITS and C-ITS", "Information security, data protection and privacy", CAPITAL project, 2019 ▪ Certificate for attending the seminar **"Transport planning for sustainable urban mobility"**, Chamber of authorized architects and authorized engineers of Macedonia, Skopje, 2018 ▪ Certificate for successful participation in the Transport and Climate Change Week 2018 **"Digital mobility, new business models and innovative planning"**, GIZ GmbH, Berlin, 2018 ▪ Certificate for successfully completing of the e-course **"FLOW and transport modelling: looking at the tools"**, Consortium of FLOW project (PTV Group), 2017 Certificate for successfully completing of the CREATE training session on **"Urban mobility data: what data, how to collect it and make it useful?"**, CREATE project, Bucharest, 2017 ▪ Certificates for successful participation in the CROW Master Classes: **"bike lanes, bike streets and bike highways", "Roundabouts and Intersections", "Bridges and Tunnels", and "Networks and Models"**, CROW, Nijmegen, 2017 ▪ Certificate of participation at the **PTV User Group Meeting 2016**, PTV Group, Zagreb, 2016 ▪ Certificate for successfully completing of the e-course **"Sustainable Urban Freight Transport"**, CIVITAS, 2016 ▪ Certificate for successfully completing of the e-course **"ITS and Traffic Management in Urban Areas"**, CIVITAS, 2016 ▪ Certificate for successfully completing of the e-course **"Traffic and Mobility Fundamentals"**, CIVITAS, 2016 ▪ Certificate for participating in the course **"Introduction to Microscopic Traffic Flow Simulation with PTV VISSIM"**, PTV Vision, Skopje, 2014 ▪ Certificate for participating in the course **"Modelling Vehicle – Actuated Signal Programs with VisVAP"**, PTV Vision, Skopje, 2014 ▪ Certificate for participating in the course **"PTV VISSIM – Introduction and Advanced Training"**, PTV Vision, Skopje, 2012 ▪ Certificate for participating in the course **"PTV VISUM – Introduction and Advanced Training"**, PTV Vision, Skopje, 2012 ▪ Certificate for successfully completing of the training course **"QMS Internal Auditor"** according to ISO 9001:2008, Evrosimovski Consulting, Skopje, 2012 ▪ Certificate for attending the seminar **"Innovation Knowledge in Traffic Management"**, Faculty of traffic engineering, Beograd, 2011 ▪ Certificate for attending the International conference **"Road Safety in Local Community"**, BSLZ, Valjevo, 2011 ▪ Certificate for participating in the course **"Transport Knowledge and Learning Program on ITS systems: ITS in Urban Applications"**, World Bank, Skopje, 2010 ▪ Certificate for participating in the course **"Transport Knowledge and Learning Program on ITS systems: ITS in Interurban Applications"**, World Bank, Skopje, 2010 ▪ Diploma for successfully completing of the course **"Visual Basic.NET for Web Applications"**, SEMOS Education, Skopje, 2008 ▪ Diploma for successfully completing of the course **"Visual Basic.NET – Level II"**, SEMOS Education, Skopje, 2008 ▪ Diploma for successfully completing of the course **"Visual Basic.NET – Level I"**, SEMOS Education, Skopje, 2008 ▪ Diploma for successfully completing of the course **"Microsoft Access"**, SEMOS Education, Skopje, 2008
Project management roles	▪ Project **"Skopje Urban Transport – Twinning Partnership for Traffic Management and Urban Road Management".** The project aims to support public company`s management to deliver an administrative and operational framework related to traffic management and urban road management and to support operational and financial planning related to streets including the new Automated traffic management (ATM) system. | Twining partner TINA International-Vienna | 2014-2015. *(Member of the project team within City of Skopje)* ▪ Project **"Skopje Urban Transport - Automated traffic management (ATM)".** The project included building of traffic management and control centre (TMCC) and installation of automated traffic management system (ATMS) with fully adaptive traffic control at 90 signalized junctions. The project also included traffic detection system with 900 inductive loop detectors, transmission network with 50 km fibre optic, video monitoring system (CCTV) with 50 cameras and traffic information system with 5 VMS. | 2013 – 2014. *(Member of the project implementation unit within City/Technical project manager)*

International project participations	▪ Project **"SUMSEEC"**, Sustainable urban mobility in SEE countries, Project partner, GIZ, 2017 – 2020 *(Coordinator of the project team within City of Skopje for implementation of activities related to SUMSEEC project)* ▪ Project **"FLOW"**, Furthering Less Congestion by Creating Opportunities for More Walking and Cycling, Follower city, CIVITAS, 2016 – 2018 *(Representative of City of Skopje)* ▪ Project **"CREATE"**, Congestion reduction in Europe – Advancing transport efficiency, Project partner, CIVITAS, 2015 – 2018 *(Member of the project team within City of Skopje for implementation of activities related to CREATE project)* ▪ Project **"RENAISSANCE"**, Testing innovative strategies for clean urban transport in historic European cities, Project partner, CIVITAS, 2008 – 2012 *(Member the project team within City of Skopje for implementation of Measure 4.5 "Plan for development of a sustainable urban transport system in Skopje" and Measure 8.3 "Intelligent traffic management in the city centre of Skopje")*
International Workshops, Conferences & Study visits	▪ 6th European conference on SUMP **"Planning for sustainable and active cities"**, Groningen, June 2019 ▪ SUMSEEC II Kick-off meeting **"Sustainable urban mobility in SEE countries"**, Vienna, December 2018 *(Presented the Last achievements and main challenges in urban mobility in Skopje)* ▪ 2nd Transport and climate change week **"Digital mobility, new business models and innovative planning"**, GIZ GmbH, Berlin, September 2018 ▪ 5th European conference on SUMP **"Planning for multimodal cities"**, Nicosia, May 2018 *(Presented the Mobility situation in Skopje and discussed in panel discussion on Mobility and SUMP`s during session D5 "Zooming in Eastern Europe: Looking a trough culturally different lens of SUMP`s")* ▪ EUROCITIES forum meeting **"Multimodal cities: Common vision, multiple strategies"**, EUROCITIES, Prague, April 2018 *(Presented examples of road space relocation to walking, cycling and Public transport in Skopje)* ▪ FLOW & TRACE Final conference **"Decongesting Europe: New approaches to freeing our cities",** FLOW project**,** Brussels, March 2018 CREATE conference **"Future urban mobility development for sustainable and liveable city"**, CREATE project, Skopje, January 2018 ▪ SUMSEEC Conference, **"Sustainable urban mobility in SEE countries"**, GIZ, Skopje, December 2017 *(Presented the Mobility and bicycle traffic in Skopje)* ▪ CREATE Conference **"Building the foundation for future mobility in European cities",** CREATE Project, Bucharest, September 2017 ▪ VELO-CITY conference **"The freedom of cycling"**, Arnhem/Nijmegen, June 2017 ▪ FLOW Follower City Workshop 2 **"FLOW and Transport modelling: Looking at the tools"**, FLOW project, Munich, April 2017 ▪ 4th SUMP conference**, "Intelligent planning for sustainable mobility",** Dubrovnik, March 2017 ▪ PTV **"User Group Meeting 2016"**, PTV Group, Zagreb, October 2016 ▪ CIVITAS FORUM **"Shaping the mobility of tomorrow"**, CIVITAS, Gdynia, September 2016 ▪ FLOW Follower City Workshop 1 **"Congestion and your city: The FLOW Approach"**, FLOW project, Gdynia, September 2016 *(Presented the Congested spaces in Skopje)* ▪ CHUMS Final conference **"The future of carpooling",** CHUMS Project, Leuven, July 2016 ▪ Study visit of Copenhagen with focus on **"Bicycle traffic planning and design",** City of Copenhagen & Danish Cycling Federation, Copenhagen, June 2016 ▪ CREATE Work shadowing visit Paris – Skopje with focus on **"Sustainable urban mobility"**, CREATE project, Paris, March 2016 ▪ Study visit of Vienna with focus on **"Traffic management and Road maintenance"**, Skopje ▪ Urban Transport Project – Twinning partnership for Traffic Management and Urban Road Maintenance, TINA International, Vienna, March 2015 ▪ Study visit of Freiburg with focus on **"City planning, Traffic policies and Energy efficiency"**, GIZ, Freiburg, October 2014 ▪ Study visit of Torino with focus on **"Intelligent transport systems & Urban traffic control"**, SWARCO MIZAR, Torino, March 2014 ▪ BSLZ 8th Conference **"Road Safety in Local Community"**, BSLZ, Divchibare, April 2013 *(Presented the research paper "Methodological framework for adoption of strategic documents for road traffic safety management")*

	▪ INTERTRAFFIC exhibition **"Traffic and Mobility industry"**, Amsterdam, April 2012 Seminar **"Innovation knowledge in traffic management"**, Faculty of traffic engineering, Beograd, April 2011 ▪ CIVITAS PLUS workshop **"Planning for exploitation",** VANGUARD Project, Brussels, December 2010
Research & scientific papers/articles	▪ Pavleski, D., **"TSCLab – Traffic Signal Control Laboratory, A tool for performance monitoring and evaluation of adaptive traffic signal control in VISSIM"**, Scientific Journal 'International transportation", Volume 71, Special edition 1, June 2019 ▪ Pavleski, D.; Koltovska Neshoska, D.; Ivanjko, E., **"Development of TSCLab: A Tool for Evaluation of the Effectiveness of Adaptive Traffic Control Systems"**, New Technologies, Development and Application II, Lecture Notes in Networks and Systems Vol. 76, Springer, Karabegović, Isak (ed.), 5th International Conference "New Technologies NT-2019", Sarajevo Bosnia and Hercegovina, 2019 ▪ Pavleski D., Nechovska Koltovska D., Ivanjko E., **"Evaluation of adaptive and fixed time traffic signal control strategies: Case study of Skopje"**, Proceedings of 2nd International conference "Transport for Today`s Society", Bitola, 2018 ▪ Pavleski D., Nechovska Koltovska D., Ivanjko E., **"Evaluation of adaptive traffic control system UTOPIA using microscopic simulation"**, Proceedings of 59th International symposium ELMAR-2017, Zadar, 2017 ▪ Davidoski Z., Pavleski D., Bombol K., Koltovska, D. **"Identification of hazardous spots on the traffic network using VISUM SAFETY – A case study"** 11th International Conference on Road Safety in Local Community, BSLZ, Vrnjacka Banja, 2016 ▪ Koltovska D., Ivanjko E., Pavleski D., **"Benchmarking new concept of mobility: Case study in Skopje"**, Workshop on smart urban mobility, Napier University, Edinburgh, 2015 ▪ Bombol K., Pavleski D., **"Operational experience while implementing the traffic signal control system UTOPIA in Skopje"**, 34th International Conference on Automation in Transportation, KOREMA 2014, Dubrovnik, 2014 ▪ Pavleski D., **"Impact analysis of the type of left turn control on traffic safety at signalized intersections in Skopje"** 9th International Conference on Road Safety in Local Community, BSLZ 2013, Valjevo, 2013 ▪ Pavleski D., Bombol K., **"Methodological framework for adoption of strategic documents for road traffic safety management"**, 8th International Conference on Road Safety in Local Community, BSLZ, Divchibare, 2013 ▪ Pavleski D., **"Integrated system for automated road traffic accident data processing and black spots identification"**, Seminar for Black Spots on Macedonian Roads, Republic Council of Road Traffic Safety, Skopje, 2010
Honourable mentions, Acknowledgements, Nominations & Awards	▪ Nomination for the **European Friedrich-List-Award 2019 to young transport scientists**, in the category **Diploma paper (Master Thesis or comparable),** Young Forum of European Transport Sciences, European Platform of Transport Sciences, 201p9 ▪ Honorable mention for participation in **23rd National competitions for Road Traffic & Transport Technicians**, Association of teachers from secondary technical schools in Macedonia, Prilep, 2004
Own software developments	▪ **TSCLab** (Traffic Signal Control Laboratory) – A tool for Real Time Performance Monitoring and Evaluation of Traffic Signal Control strategies in VISSIM, Developed in MATLAB, Programming language: MATLAB, Video: https://youtu.be/CaSUI74yXpM, 2018 ▪ **STD** (Signal Timing Diagram) – A tool for creation of signal timing diagram, developed in Excel, Programming language: VBA, 2015 ▪ **VRezim** – Registry of Approved Temporary Traffic Schemes, Developed in Access, Programming language: VBA, 2014 ▪ **MacTAD** – Road Traffic Accident Database, Developed in Access, Programming language: VBA, 2008