

CURRICULUM VITAE

Mirjana BUGARINOVIC

Education and training

2014

Doctor degree of technical science (PhD) in Railway Transport Planning and Technology,
Modelling of access charges for the use of railway infrastructure
University of Belgrade, Faculty of transport and traffic engineering, Belgrade – Serbia

2000

Master of technical science (MSc), in Planning and Technology of Railway Transport, (4 semester study)
Defining a new methodology for the selection of rail traction vehicles
University of Belgrade, Faculty of transport and traffic engineering, Belgrade – Serbia

1996

License for Design Engineer in Charge
Professional Exam for Design in Railway Engineering
Serbia Chamber of Engineers, Belgrade, Serbia

1991

Certificate of passed professional exam on railways for the title of Graduate Engineer for Railway Engineering
ZTP "Beograd"- Public Enterprise, Belgrade, Serbia,

1990

Master's degree (dipl. eng.) in Railway transport, (10 semester study)
Feasibility study for the Belgrade - Subotica line improvement for high-speed trains operations
University of Belgrade, Faculty of transport and traffic engineering, Belgrade – Serbia

Academic Experience

2019-ongoing

Associate professor of transport and traffic engineering
Department for Railway Transport
University of Belgrade, Faculty of transport and traffic engineering

2014-2019

Assistant professor of transport and traffic engineering
Department for Railway Transport
University of Belgrade, Faculty of transport and traffic engineering

2010–2014

Teaching assistant
Department for Railway Transport
University of Belgrade, Faculty of transport and traffic engineering

2008-2010

Railway expert for Western Balkan region
South East Europe Transport Observatory (SEETO)

1995-2010

Research Assistant
Department for Railway Transport
University of Belgrade, Faculty of transport and traffic engineering

1994- 1995

Part time Researcher at Department for Engineering
Alta velocidad de España (AVE) enterprise, Madrid- Spain

1990-1995

Leading Manager/Leading Engineer for railway traffic and train traction
Public Railway Transport Enterprise "Beograd", Belgrade, Serbia

Language skills:

English- independent
Spanish – basic
Montenegrin, Croatian- independent
Serbian (native tongue)

Teaching activities

Since 2000 Mirjana Bugarinović has been lecturer of:

- Railway system performances and efficiency
- Urban rail systems (up to a.y. 2000)
- Railway traffic management,
- Train traction - scheduling and rostering of train and staff
- Optimization of the railway network efficiency and vehicle scheduling
- Advance level of urban rail system (up to a.y. 2000)
- Regulatory system of railway transport (up to a.y. 2016)

Research interest

The areas of research interest are as following:

- Performance definition and analysis for the railway system,
- Regulation of the railway market,
- Modelling of track access charges,
- Analysis the competition at the railway market and efficiency in the railway sector,
- transport planning of the urban rail system
- Multi-criteria decision-making methods (specially AHP, ANP And NANP).

She participated in or managed more than 50 scientific and commercial projects, including two international H2020 projects and one ERASMUS project. She was a member of the committee of over 40 master's theses and three doctoral dissertations. Research and teaching activities are documented by two academic books as co-author and over 80 publications.

Grants

Some of scientific and commercial projects are mention such as:

2020-ongoing

**STAFFER -Skill Training Alliance For the Future European Rail System
Team leader of UB team**

The project aims to develop an industry-led skills alliance to develop transnational vocational education and training in the railway sector. After setting priorities and milestones for action, partners will develop concrete solutions, such as creating and updating professional curricula and qualifications based on change or new occupation profiles. Based on the achievements of sectoral skills associations at EU level, a "draft" for this sector will be presented at national and regional level. This will be done in cooperation with national and regional authorities and key actors. There will also be synergies with other policy frameworks, such as regional strategies for the development of education in the railway sector.

2017-2019

**NOESIS (NOvel Decision Support tool for Evaluating Strategic Big Data investments in Transport and Intelligent Mobility Services)
H2020 Call MG 8.2
Participant**

Project NOESIS aims to provide a robust methodological framework (Decision Support tool) and data-driven evidence to enable the deployment of a Big Data in Transport ecosystem in Europe by addressing the associated technological, institutional/legal, business and policy challenges.

2017-2019

**INTEND (INTentify future Transport rEsearch NeEds)
H2020 Call MG8.7-2
Participant**

The main aim of the project is to deliver an elaborated study of the research needs and priorities in the transport sector utilizing a systematic data collection method. Megatrends that will be affecting the future transport system will be identified using the Analytical Network Process to ensure validity of the results. Finally, INTEND will develop a transport agenda that would pave the way to an innovative and competitive European Transport sector.

2020-2022

**Technical Assistance for Capacity Support to the Transport Sector and EU Acquis Alignment in Montenegro
PWA/MNE/IPA II/CAP17/SER/01-8132-1
Transport expert**

2017-2018

**Technical Assistance to Ministry of Construction Transport and Infrastructure (MoCTI) and the State-owned railway companies in Serbia – Comprehensive Railway Reform/EuropeAid/137725/DH/SER/RS
Railway expert**

2013-2014

**Across: WP.5 Cross Border analysis - Methodology for common standards analysis on cross border points.
Railway expert**

2012-2013

**Technical Assistance to Serbian Railways in restructuring of selected fields,
The European Union's IPA 2800 Programme for SERBIA- EuropeAid/131196/ C/SER/RS,
Railway expert**

Editorial activity:

Scientific reviewer for following international journals and conferences:

- Elsevier - European Journal for Operational Research,
- Elsevier -Transport Policy,
- Elsevier -Journal of Rail Transport Planning and Management.
- Esmerald - Management Decision
- Taylor and Francis- Transportmetrica

- MDPI – Sustainability
- International Scientific-Expert Conference of Transport – New Horizons

Membership of professional bodies:

- SEETO (South East Europe Transport Observatory) Railway working group,
- Serbian Association of Engineer's,
- State Commission for Transport Infrastructure Project Revision

Some articles:

1. **How to design track access charges for small railways: a case study Montenegro** - Promet Traffic&Transport, Vol. 34, No.4, 2020, pp.631-642,
2. **Why and how to manage the process of liberalization of a regional railway market: South-Eastern European case study**, Transport Policy, Volume 41, July 2015, pp. 50-59
3. **A system approach to access charges in unbundling railways**, European Journal of Operational Research Volume 240, Issue 3, 2015, pp. 848-860.
4. **Challenges of track access charges model redesign**. Sustainability 2021, 13 (24), 13512. ISSN 2071-1050
5. **Megatrends, a way to identify the future transport challenges**, 4th Conference on sustainable urban mobility, Skiathos Island, Greece, 24-25 may 2018
6. **Factors of competitiveness in the rail freight transport market: case of Corridor X**, 2nd International Conference TRANSPORT FOR TODAY'S SOCIETY, Bitola, Republic of Macedonia, 17-19.may, 2018,
7. **Measuring the performance of the European rail systems**, Proceedings 6th International Scientific Symposium "The New Horizons of Transport and Communications 2017", CD-Rom, pp. 424-433, Doboj, Bosnia & Herzegovina, Republic of Serbia, November 17 – 18, 2017
8. **Unique performance indicators for the infrastructure manager**, Proceedings 6th International Scientific Symposium "The New Horizons of Transport and Communications 2017", CD-Rom, pp. 433-441, Doboj, Bosnia & Herzegovina, Republic of Serbia, November 17 – 18, 2017
9. **Inland freight transport in Serbia: trends and challenges**, Proceedings for 3rd Logistics International Conference, Belgrade, Serbia 25-27 May 2017, pp. 74-79., ISBN 978-86-7395-373-1
10. **Where does costs coverage and track access charges structure go after adoption of regulation 2015/909/EU?**, Proceedings for International scientific-expert conference on railways "RAILCON'16", Nis 13-14.10.2016, pp. 197-200., ISBN 978-86-6055-086-8, COBISS.SR-ID 226310668
11. **Key performances indicators for future sustainable business development of infrastructure managers**, Proceedings for International scientific-expert conference on railways "RAILCON'16", Nis 13-14.10.2016, pp. 201-204., ISBN 978-86-6055-086-8, COBISS.SR-ID 226310668
12. **Train path performances and capacity allocation: What is actually the object of transactions in the liberalized railway market?**, Proceedings of 20th International Conference "Transport Means 2016", Juodkrante, 5-7 October, 2016, pp.735-740, ISNN 1822-296X print, ISNN 2351-7034 online
13. **Why and how to manage the process of liberalization of a regional railway market: South-Eastern European case study**, Transport Policy, Volume 41, July 2015,
14. **Forms and instruments of the market regulation of railway infrastructure**, Technics. Vol. 69, No. 2, 2014, pp. 283-290., UDC: 625.1:339.13, Belgrade (ISSN 0558-6208) – review paper
15. **Two-phase model for multi criteria project ranking: Serbian Railway case study**, Transport Policy, Volume 36, 2014, pp. 88-104.
16. **Railway infrastructure project ranking - one approach**, Proceedings 4th International Scientific Symposium "The New Horizons of Transport and Communications 2013", pp. 218-224, Doboj, Bosnia and Herzegovina, Republic of Serbia, ISBN 978-99955-36-45-9, 2013
17. **Dynamics of railway market opening – choice of a policy for Serbia" In Proceedings for International Conference on traffic and transport engineering**, "ICTTE 2012, pp. 399-407, ISBN 978-86-916153-0-7, USB key, Belgrade, 29-30.11.2012, Serbia
18. **Development scenario for railway market institutions in Serbia"**, In Proceedings international scientific-expert conference on railways "XV RAILCON'12", pp 209-212., ISBN 978-86-6055-028-8, COBISS.SR-ID193520396, CD, Nis 4-5.10.2012
19. **Looking into the theory and practice of different approaches at railway passenger market liberalization"**, *Техника, No. 1*, pp. 115-122., UDC: 656.22.011.1, Belgrade, 2011, ISSN 004-2176 –review article
20. **Railway market in South east Europe – parametars for harmonization of development**, Proceedings of the first International B-H Congress on railways, pp. 5-13, Sarajevo, Bosnia and Herzegovina, September 29 – 30, 2011., ISSN 2233-0100-9772233-010002, CD version
21. **The regulatory issues and railway infrastructure**, Proceedings 3rd International Scientific Symposium "The New Horizons of Transport and Communications 2011", CD-Rom, pp. 518-524, Doboj, Bosnia & Herzegovina, Republic of Serbia, November 24 – 25, 2011, ISBN 978-99955-36-28-2, CD version