

CURRICULUM VITAE

SVETLA STOILOVA

Associate Professor PhD
Technical University of Sofia, Bulgaria
Faculty of Transport

Office Address

Bulgaria, Sofia 1000,
Technical University of Sofia,
blvd "Cl. Ohridski "8, bl.9
Faculty of Transport
Phone: +359895590377
E-mail: stoilova@tu-sofia.bg



PROFESSIONAL EXPERIENCE

- Technical University of Sofia, M. Esc. In Mechanical engineering, Technology and Organization of Railway Transport , 1983
- From 1983 to 2000 - Scientific Research Institute of Railway Transport – Sofia.
- Technical University of Sofia, PhD, Scientific specialty “Management and Organization of Railway Transport”, 1998.
- Technical University of Sofia, Associate professor PhD, Scientific specialty “Management and Organization of Railway Transport”, 2003 to date

OTHER SKILLS

MS Office; Windows 2000, XP, Vista, 7,8 ; AutoCAD; Internet; Arena Simulation Software; SPSS, Statgraphics; Matlab

MAJOR FIELDS OF SCIENTIFIC RESEARCH (KEYWORDS)

Transport logistics, Technology and organization of transport, Simulation modeling in transport, Modeling and optimization of transport flows, Business planning

KEY QUALIFICATIONS

- Long experience as study and prognosis of passengers' flows in public transport systems – bus/ trolleybus/ tram/ railway;
- Long experience as elaboration and optimization of the organization of railway transportation systems;
- Experience in elaboration of railway transport time-schedules;
- Experience in railway transport management, organization and marketing;

- Experience in modelling of transport flows;
- Experience in simulation modelling in transport;
- Experience in transport logistics;
- Strong professional experience in various fields of transport engineering.
 - Technology and organization of railway transport
 - Commercial exploitation of public transport systems
 - Theory of management of public transport systems
 - Urban electric transport
 - Passenger transport
 - Freight transport
 - Railway marketing
 - Expert advisor to the Ministry of Transport – on issues related to Urban transport of Sofia

MEMBERSHIP IN SCIENTIFIC AND/OR PROFESSIONAL INSTITUTIONS, BODIES, AND ORGANIZATIONS

- Scientific-Technical Union Of Mechanical Engineering - Bulgaria

FOREIGN LANGUAGES (LEVEL OF PROFICIENCY): INDICATE COMPETENCE ON A SCALE FROM 1 TO 5 (WHERE 1 IS POOR AND 5 IS EXCELLENT)

Language	Reading	Speaking	Writing
English	4	4	4
French	3	3	3
Russian	4	4	4

LECTURE COURSES AT THE TECHNICAL UNIVERSITY OF SOFIA, BULGARIA

1. Theory of Transport Management
2. Transport Logistics
3. Organization and Management of Railway Transport
4. Technology and Organization of Transport
5. Commercial Exploitation of Transport
6. Optimization of Rail Transport
7. Marketing on Railway Transport
8. Project Management in Railway Transport
9. Urban electric transport

SELECTED PUBLICATIONS

1. Stoilova S, L. Kunchev, K. Nedelchev. Investigation of technical and operational indices for the movement of a road train. International Scientific Journal MTM, vol.1, pp.37-46, 2012, <http://mech-ing.com/journal/1-2012.html>
2. Stoilova, S., B. Sidi. Creating a graphic train schedule in Excel, International Scientific Journal MTM, vol.1, pp.79-83, 2012, <http://mech-ing.com/journal/1-2012.html>
3. Stoilova, S., L. Kunchev. Modeling of the fuel consumption of road train using GPRS system. International conference on automobile and vehicle technologies AVTHEC'13, p.111-125, Istanbul, 2013.
4. Stoilova S. Network models for traffic management of vehicles. International Scientific Journal MTM, vol.1, pp.47-56, 2012, <http://mech-ing.com/journal/1-2012.html>
5. Stoilova S, L. Kunchev. Modelling the movement of a road train using dynamic optimization. International Scientific Journal MTM, vol.1, pp.75-78, 2012, <http://mech-ing.com/journal/1-2012.html>
6. Stoilova S., K. Nedelchev. An automated optimization using graph theory. International Scientific Journal MTM, vol.7, pp.17-22, 2012, <http://mech-ing.com/journal/7-2012.html>
7. Stoilova S, L. Kunchev. Application of the mobile satellite navigation system to study the movement of the road train. International Scientific Journal MTM, vol.7, pp.23-30, 2012, <http://mech-ing.com/journal/7-2012.html>
8. Stoilova, S., E.Vasilev. Development and construction of an online information system for reservation in passenger rail transport, International Scientific Journal MTM, vol.1., pp. 54-61, 2013, <http://mech-ing.com/journal/1-2013.html>
9. Stoilova, S., L. Kunchev. Investigation of the effectiveness of transportation by motorail trains. Septième édition du COLloque FRancophone en Energie, Environnement, Economie et Thermodynamique - COFRET'14, Paris, 2014.
10. Stoilova, S., V. Stoev. An application of the graph theory which examines the metro networks. Proceeding of III Symposium of young researchers "TRANSPORT PROBLEMS", pp.944- 955, 2014, http://ecad.tu-sofia.bg/e-publ/files/1571_Stoilova-Stoev-Katovice%202014.pdf
11. Stoilova, S., V. Stoev. Investigation of the Sofia's subway stations using cluster analysis. Mechanics Transport Communications Academic Journal MTC AJ, vol. 12, issue 3-1, 2014, issue 3, pp. 1-69 - 1-77, 2014, Bulgaria, Sofia, VTU "T.Kablechkov", http://www.mtc-aj.com/library/968_EN.pdf
12. Stoilova, S., An application of the method of decision tree for selecting a strategy for organization of passenger trains on the railway line. International Conference International Scientific Conference Horizons of railway transport 2014, Zilina, Slovak Republic, 2014
13. Stoilova, S., V. Stoev. Simulation modelling of departing passenger flows from metro station. International Scientific Conference Horizons of railway transport 2014, Zilina, Slovak Republic, 2014, pp.239-249, http://ecad.tu-sofia.bg/e-publ/files/1572_Stoilova-Stoev-Jilina-2014.pdf
14. Stoilova, S., Risk analysis of delay of passenger trains in the rail network. XVI International Scientific-expert Conference on Railways RAILCON'14, Serbia, Nis, 2014
15. Stoilova, S., V. Stoev. Simulation modelling of technological processes in subway station. XVI International Scientific-expert Conference on Railways

- RAILCON'14, Serbia, Nis, 2014, pp.109-112. http://ecad.tu-sofia.bg/e-publ/files/1573_Stoilova-Stoev-Nich-%20RAILCON%20%2714.pdf
16. Stoilova, S., L. Kunchev. Application of the multicriteria decision-making methodology for route selection of a road train. 3RD International congress science and management of Automotive And Transportation Engineering, 23rd - 25th of October, 2014 Craiova, Romania
 17. Stoilova, S., V. Stoev. Application of Arena discrete event simulation tool in the modeling of technological processes on departure of passengers in Sofia's metro stations. Scientific conference on Aeronautics, Automotive and Railway Engineering and Technologies BULTRANS -2014, pp. 243-250, http://ecad.tu-sofia.bg/e-publ/files/1575_SBORNIK_BULTRANS_14_SVETLA.pdf
 18. Stoilova, S., R.Nikolova. Investigation the scheme of movement of the passenger trains with combination of theory for decision and linear optimization method. Scientific conference on Aeronautics, Automotive and Railway Engineering and Technologies BULTRANS -2014, pp.235-242, http://ecad.tu-sofia.bg/e-publ/files/1537_Stoilova%2C%20Nikolova%20Bultrans%202014-eng.pdf
 19. Stoilova, S., V. Stoev, M.Sisman. Investigation of the organization of metro lines in Istanbul. Scientific conference on Aeronautics, Automotive and Railway Engineering and Technologies BULTRANS -2013, pp.72-79, http://ecad.tu-sofia.bg/e-publ/files/1746_bultrans-2013%20-%20Stoilova%2CStoev%2CSisman.pdf

BOOKS

1. Stoilova, S. Theory of Management in Transport (in Bulgarian) , Publishing house of the Technical University – Sofia, Bulgaria, p.216, 2006, ISBN-10:954-438-546-0; ISBN-13:978-954-438-546-0.
2. Stoilova S. Commercial Exploitation of Transport (in Bulgarian), Publishing house of the Technical University – Sofia, Bulgaria, p.158, 2009, ISBN 978-954-438-590-3.
3. Stoilova S. Organization and Management of Rail Transport (in Bulgarian). Publishing house of the Technical University– Sofia, Bulgaria, p.240, 2010, ISBN: 978-954-438-808-9.
4. Stoilova S. Manual for laboratory exercise in Commercial Operation of Transport, Publishing house of the Technical University– Sofia, Bulgaria, p.40, 2007, ISBN: 978 954-438-589-7.
5. Stoilova, S. Manual for laboratory exercise in Theory of Management in Transport (in Bulgarian), Publishing house of the Technical University– Sofia, Bulgaria, p.40, 2010, ISBN 978-954-438-880-5.
6. Stoilova, S. Manual for manual for Course project for Organization and Management of Railway Transport (in Bulgarian), Publishing House Technical University – Sofia, Bulgaria, p.80, 2010, ISBN: 978-954-438-807-2.