



Prof Sanja Bauk, PhD

Work:
Kopli 101
11712 Tallinn
Estonia

Home:
Bonici 2
85 320 Tivat
Crna Gora (Montenegro)

Cell(s): **+372 5303 5887; +382 (0)67 614 747**
Email(s): sanja.bauk@taltech.ee; bsanjaster@gmail.com
Web: <https://sanjabauk.com/>

BIOGRAPHY

Born in Kotor (Montenegro, South-East Europe) in 1972, I was an excellent student and claimed academic awards during both primary and high school. I graduated in 1997 from the Maritime Faculty in Kotor, University of Montenegro where I once again gained recognition as one of the best students, having received the University Plaque.

In 2001, I earned my master's degree at the Faculty of Traffic and Transportation Engineering, University of Belgrade (Serbia), defending the thesis *Information and Communication Technologies in Optimising the Ship Navigation*. In 2005, I finished my doctoral studies at the same faculty, defending the doctoral dissertation *Intelligent Information Systems in Route Optimisation in Maritime and Port Transportation*.

Later, during 2013, I completed the post-doctoral studies in the field of didactic informatics at the Academy for New Media in Knowledge Transfer, at Karl Franzens University Graz (Austria). In 2017, I completed further post-doctoral studies in the field of wireless sensors' network optimisation at the RWTH Aachen University (Germany).

I have received several international academic awards as a visiting researcher and lecturer at the universities of: Coimbra (Portugal), Barcelona (Spain), Pittsburgh (Pennsylvania, the USA), Bologna (Italy), Odessa (Ukraine), Graz (Austria), Lund (Sweden), Aachen and Marburg (Germany), City, London (England) and others.

With varied and vast research interests, I have developed a broad background in informatics and management science (operations research) including some computational aspects. In addition, I have an established interest in digital transformation, innovation management, education, economics, data analytics and optimization. More recently, I have expanded my research interests to physical internet, biological versus virtual intelligence, convergent technologies as well as the human dimension of technological development and other socially and technologically advanced developments.

I am motivated to undertake further research that links some of these concepts while simultaneously helps strengthen communication between academia, industry, and wider community.

As a prolific writer, I am the author of three scientific monographs, and several university textbooks. Acting in the capacity of author and co-author, I have published over 150 papers in various international scientific journals. In addition, I have contributed many articles to the proceedings of international scientific and professional conferences.

My well-established credibility in my field has earned me the honour to sit on the editorial boards and as a reviewer on several international scientific journals. I am also a member of the scientific boards of several international conferences. Additionally, I have actively participated in the realisation of numerous international research and development projects.

I worked for more than 20-years at the Maritime Faculty Kotor (University of Montenegro, South-East Europe) as a lecturer in Operations Research and Maritime Electronic and Information Systems at undergraduate and postgraduate levels. After that, in 2018, I was employed as an associate professor at Faculty of Applied Sciences at Durban University of Technology. I used to lecture several subjects as Electronic and Information Systems in Navigation (ECDIS & Radar/ARPA at simulation level), Logistics III, Research Methodology and Research Project. Currently, I am with Estonian Maritime Academy, Tallinn University of Technology (TalTech) as a Research Professor and besides research work, I lecture Introduction to Computer Systems for Maritime Specialists and Maritime Industry's Digital Transformation at Doctoral Studies.

In my spare time, I read (non-)fiction and write essays. Up to now, I have successfully published three collections of short stories in my native Serbo-Croatian language, that aim to reflect my perception of some of the challenges that modern societies currently grapple with.

EDUCATION

- **PostDoc**, Institute for Theoretical Information Technology, RWTH Aachen University, Aachen, Germany, *Wireless Sensor Network Optimization* (2016-2017)
- **PostDoc**, Karl Franzens University Graz, Graz, Austria, *Didactic Informatics* (2012-2013)
- **DSc**, Faculty of Traffic and Transportation Engineering, University of Belgrade, Belgrade, Serbia and Montenegro, *Intelligent Information Systems in Route Optimization in Maritime Transportation* (2001-2005)
- **MSc**, Faculty of Traffic and Transportation Engineering, University of Belgrade, Belgrade, Serbia and Montenegro, *Information and Communication Technologies in Ship Route Optimization* (1997-2001)
- **Diploma**, Honor Maritime Engineer, Faculty of Maritime Studies, Kotor, University of Montenegro, Serbia and Montenegro, *Bidirectional Time Comparison of Multimodal Transportation Systems* (1993-1997)

AREAS OF TEACHING

- Introduction to Computer Systems for Maritime Specialists
- Maritime Industry's Digital Transformation
- Informatics
- Management Science (Operations Research)
- Electronic and Information Systems in Sea Navigation
- Logistics

- Research Methodology
- Research Project
- Critical Thinking

REFERENCES

- Scopus: <https://www.scopus.com/freelookup/form/author.uri>
- ORCID: <https://orcid.org/0000-0003-2882-1321>
- Research Gate: https://www.researchgate.net/profile/Sanja_Bauk
- Google Scholar: <https://scholar.google.com.br/citations?user=I12BelgAAAAJ&hl=de>
- ETIS: https://www.etis.ee/CV/Sanja_Bauk/eng/

TEACHING EXPERIENCE

- **2023- :** **Research Professor**, Estonian Maritime Academy, Tallinn University of Technology - TalTech (Tallinn, Estonia)
- **2018-2023: Associate Professor**, Durban University of Technology (Durban, South Africa)
- **2013-2019: Associate Professor**, University of Montenegro (Kotor, Montenegro)
- **2008-2013: Assistant Professor**, University of Montenegro (Kotor, Montenegro)
- **2001-2017: Visiting professor and researcher** at *RWTH Aachen University* (Aachen, Germany), *London, City University* (London, UK), *University of Marburg* (Marburg, Germany), *Lund University* (Lund, Sweden), *Karl Franzens University* (Graz, Austria), *University of Odessa* (Odessa, Ukraine), *University of Tirana* (Tirana, Albania), *University of Zagreb* (Zagreb, Croatia), *University of Ljubljana* (Portoroz, Slovenia), *University of Barcelona* (Barcelona, Spain), *University of Coimbra* (Coimbra, Portugal), and *University of Pittsburgh* (Pittsburgh, Pennsylvania, USA)
- **1998-2008: Teaching assistant**, University of Montenegro (Kotor, Montenegro)

AWARDS

- **Certificate of Excellence - Faculty Researcher of the Year**, Durban University of Technology, 2022
- **Top Researcher at the Department of Maritime Studies**, Durban University of Technology, 2022
- **Book Publication Recognition Award**, Research and Postgraduate Support Directorate, Durban University of Technology, 2022
- **Teaching and Learning Excellence**, Durban University of Technology, 2021
- **Research Rewards from Research Outputs**, Durban University of Technology, 2021
- **Top Researcher of the Department of Maritime Studies**, Durban University of Technology, 2020
- **Teaching and Learning Excellence**, Durban University of Technology, 2020
- **Best Collaborative Online International Learning Initiative**, Durban University of Technology, 2020
- **One of the top publishers** (among 30 first) at Durban University of Technology, 2019
- **Researcher of the year at Maritime Studies Department**, Durban University of Technology, 2019
- **Award to Prof Sanja Bauk**, PhD, on the occasion of the 30th anniversary of **Journal PROMET-Traffic & Transportation** for continuous support, dedication, attention and open-minded thinking, and help in making the Journal such success in the field of transportation science and technology; Editor-in-Chief, Zagreb, Croatia, 2019
- **Award to Prof Sanja Bauk in recognition of being one of the Top Book Publishers in 2017**, Durban University of Technology, 2018
- **Acknowledgment of achieved results and contribution to the development of scientific and professional work at the Faculty of Maritime Studies**, University of Montenegro, 2018
- **HERIC-INVO National Award of Excellence for Postdoctoral Studies** (at RWTH Aachen University Germany, 2016/2017), Montenegrin Ministry of Science, 2016
- **Sigma, Erasmus Mundus Action 2, Grant for an academic visit** to Cass Business School, City, University of London, UK, 2016

- **Alexander von Humboldt – Georg Forster Research Fellowship (HERMES)** scholarship for experienced researchers, Goethe Institute in Bonn and RWTH University in Aachen, Germany, 2015&2016
- **Basileus V, Erasmus Mundus Action 2, Grant as a visiting staff member** at Lund University, Lund, Sweden, 2014&2015
- **Sigma, Erasmus Mundus Action 2, Grant for a visiting researcher and guest lecturer** for three months at Lund University, Lund, Sweden, 2013&2014
- **Join EU SEE Erasmus Mundus grant** as post-doctorate researcher and guest lecturer at the Karl Franzens University, Graz, Austria, 2012&2013
- **JFDP Department of State Grant** as a visiting scholar for five months within the Junior Faculty Development Program at the University of Pittsburgh, Pennsylvania, USA, 2005&2006
- **Coimbra Group Hospitality Scheme grant** as a visiting scholar at the University of Barcelona, Spain, 2006
- **Ministero degli Affari Esteri grant** for attending master course in the sustainable development of Adriatic-Ionian region, within the Virtual University of Bologna, Italy, 2004
- **Coimbra Group Hospitality Scheme grant** as a visiting scholar at the University of Coimbra, Portugal, 2001
- **Award for the best student**, University of Montenegro, 1998
- **Luča I**, Montenegrin national award for excellence in secondary school, Montenegro, 1991

PROJECTS

- **2023-2025:** “Cybersecurity in Maritime (MariCybERA)” – European Research Area Project
- **2020-2024:** “ePIcentar - Enhanced Physical Internet-Compatible Earth-frieNdly freight Transportation ansWER” (European Commission, Horizon 2020)
- **2018-2022:** “Euro-ZA Capacity building in the field of maritime education” (Erasmus+)
- **2020-2022:** “iKUDU – Transforming curricula through internationalization & virtual exchange” (Erasmus+)
- **2019-2020:** “COMPASS - Coordination Of Maritime assets for Persistent And Systematic Surveillance” (European Commission, Horizon 2020)
- **2018-2020:** “The development of intermodal transport, intermodal nodes and hinterland network in the Eastern Adriatic Region” (Slovenian and Montenegrin Ministries of Science);
- **2017:** “Modelling smart network for enhancing on port workers' safety” (Montenegrin Ministry of Science and German RWTH Aachen University)
- **2016:** “Montenegro as logistics (multimodal) platform between the Adriatic region and Danube region” (Montenegrin Ministry of Transport and Maritime Affairs)
- **2015:** “Recommendations for new structural funds directed to new transport infrastructures and services for the period 2014-2020” (Montenegrin Ministry of Transport and Maritime Affairs)
- **2013-2014:** “Distant learning implementation at the Faculty of Maritime Studies, University of Montenegro, as the additional mode of education” (Montenegrin Ministry of Science in collaboration with Academy for New Media and Knowledge Transfer, University of Graz, Austria)
- **2012-2013:** “Concerning the possibilities of applying distant learning for the seamen needs, supported by Montenegrin Ministry of Science” (Collaboration with Faculty of Maritime Studies and Transport in Portoroge, University of Ljubljana, Slovenia)

- **2011-2012:** “ICT and Innovative Strategies for Sustainable Development - Application in the West Balkans” (CEI – Central European Initiative, University Network Joint Programme – Serbia & Albania)
- **2011-2012:** “Developing an E-learning Module at Faculty of Maritime Studies (Kotor , Montenegro) for the Seamen Educational Needs” (Montenegrin Ministry of Science in collaboration with Academy for New Media and Knowledge Transfer, University of Graz , Austria)
- **2010-2011:** “Up-to-date Software Tools in the Maritime Traffic Optimal Managing” (Montenegrin Ministry of Science in collaboration with Faculty of Maritime Studies and Transport in Portoroge, University of Ljubljana , Slovenia)
- **2009-2010:** “Trans-Regional Cooperation in Maritime Transport and Sustainable Development” (CEI – Central European Initiative, University Network Joint Programme – Ukraine & Montenegro)
- **2009-2010:** “Labour Market Oriented Curriculum – Advances in Marine Technologies” (World University Service (WUS), Austria), etc.

PUBLICATIONS

BOOKS (8)

1. **Bauk S.**, *Electronic Chart Display and Information System in Brief*, Sanja Bauk (self-published), Durban, South Africa (ISBN: 978-0-620-97267-3), 2021, p. 124.
2. **Bauk S.**, Dimov S.I. (Eds.), *The 1st International Conference on Maritime Education and Development ICMED*, Springer, Boston, USA (ISBN: 978-3-030-64087-3; eISBN: 978-3-030-64088-0), 2021, p. 452, DOI: <https://doi.org/10.1007/978-3-030-64088-0>
3. **Bauk S.**, *Quantitative Methods for Management*, ELIT – Economic Laboratory for Transition Research: Podgorica, Montenegro/SPH – Scientific Publishing Hub: Celje, Slovenia; Czestochowa, Poland; Kotor, Montenegro; Osijek, Croatia; Žilina, Slovakia (ISBN: 978-9940-673-14-7), 2019, p. 356.
4. **Bauk S.**, *Maritime Issues in Digital Age*, ELIT – Economic Laboratory for Transition Research: Podgorica, Montenegro / SPH – Scientific Publishing Hub: Celje, Slovenia; Czestochowa, Poland; Kotor, Montenegro; Osijek, Croatia; Žilina, Slovakia (ISBN: 978-9940-673-20-8; ISBN: 978-961-6948-20-3, eBk), 2018, p. 343.
5. **Bauk S.**, *Prilozi digitalizaciji u pomorstvu* [Contributions to digitalization in maritime affairs], ELIT – Economic Laboratory for Transition Research, Podgorica, Montenegro, 2017 (ISBN: 978-9940-673-08-6), p. 295.
6. **Bauk S.**, *Kvantitativne metode optimizacije u funkciji naučnog menadžmenta* [Quantitative optimization methods in the function of scientific management], ELIT – Economic Laboratory for Transition Research, Podgorica, Montenegro, 2011 (ISBN: 978-9940-9222-2-1), p. 321.
7. **Bauk S.**, *Metode optimizacije u menadžmentu* [Optimization methods in management], University of Montenegro, Podgorica, Montenegro, 2010 (ISBN: 978-86-7664-089-8), p. 230.
8. **Bauk S.**, *Inteligentni informacioni sistemi u pomorstvu* [Intelligent maritime information systems], Zadužbina Andrejević, Belgrade, Serbia, 2006 (ISBN:86-7244-593-7), p. 88.

BOOKS OF SHORT STORIES (6)

1. **Bauk S.**, Skice za nove istine [*Sketches for new truths*], Sanja Bauk (samoizdat), Podgorica, Montenegro, 2024 (ISBN: ISBN 978-9940-8753-2-9), p. 131.
2. **Bauk S.** (Ed.), *Life Stories of Women in Academia*, Sanja Bauk (self-published), Durban, South Africa, 2021 (ISBN: 978-0-620-97267-3), p. 185. / eBook available on Amazon
3. **Bauk S.** (Ed.), Lične priče žena iz akademske zajednice [*Life stories of women in academia*], Sanja Bauk (samoizdat), Podgorica, Montenegro, 2021 (ISBN: 978-9940-8753-1-2), p. 168.
4. **Bauk S.**, Što Google zna o meni... [*What Google knows about me...*], Sanja Bauk (samoizdat), Podgorica, Montenegro, 2021 (ISBN:978-9940-8753-0-5), p. 116.
5. **Bauk S.**, Sa granice dva okeana [*From the border of two oceans*], ELIT, Podgorica, Montenegro, 2018 (ISBN: 978-9940-673-21-5), p. 136.
6. **Bauk S.**, Lotove žene [*Lot's women*], Plavi jahač, Belgrade, Serbia, 2017 (ISBN: 978-86-481-00962-2), p. 204.

BOOKS' CHAPTERS (7)

1. **Bauk S.**, On maritime digitalization in emerging environments. Chapter in *Logistics Engineering* (Eds. Dr. Samson Jerold Samuel Chelladurai, Dr. Suresh Mayilswamy, Dr. S. Gnanasekaran and Prof. Ramakrishnan Thirumalaisamy), IntechOpen, London, UK, (ISBN: 978-1-80355-751-9), 2022, DOI: <http://dx.doi.org/10.5772/intechopen.104185>.
2. **Bauk S.**, Pareto principle in assessing possibilities for ecological improvements at the Port of Bar, in *Sustainable Development: Crisis or Regulation?*, Chapter 12, Eds. Drašković M., Streimikiene D., ELIT, SPH & CSZ, Podgorica, Montenegro (ISBN:978-9940-673-10-9), 2017.
3. **Bauk S.**, Ivanović Ž., Multiphase approach to developing model of logistics for coastal tourist destinations, in *Management and Logistics – Selected Topics*, Ed. Drašković V., SHP Scientific Publishing Hub, Celje, Osijek, Czestochowa, Kotor (ISBN:978-961-6948-05-0), 2016.
4. **Bauk S.**, Kapidani N., Improving safety of navigation by implementing VTS/VTMIS: Experiences from Montenegro, in *Information, Communication and Environment: Marine Navigation and Safety of Sea Transportation*, Editors: Adam Weintrit, Tomasz Neumann, Chapter VII; pp. 253-258, CRC Press, Taylor& Francis Group, pages 284 (ISBN:978-1-138-02857-9 CAT#K26877), 2015.
5. **Bauk S.**, Radlinger R., Inciting the development of engaging screencasts in teaching ECDIS, in *Maritime Navigation and Safety of Sea Transportation: Advances in Marine Navigation*, Ed. Adam Weintrit, Chepter 2, pp. 29-36, CRC Press, Taylor & Francis, pages 312 (ISBN-13: 9781138001060), 2013.
6. Kulić R., **Bauk S.**, Autonomous Vehicle Path Planning Specially According to the Narrow Passage and Goal Position Reaching, in *Autonomous Robots Research Advances*, Chapter 7, Ed. Weihua Yang, Nova, Science Publisher, New York, pp. 179-222 (ISBN: 978-1-60456-185-2), 2008.
7. Lopez-Sanchez M., **Bauk S.**, Kovac N., Rodriguez-Aguilar J., Punishment Policy Adaptation in a Road Junction Regulation System, in *Frontiers in Artificial Intelligence and Applications*, Eds. Cecilio Angulo, Lluís Godó, IOS Press, pp. 112-119 (ISBN: 978-1-58603-798-7), 2007.

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1. **Bauk S.**, Ntshangase L.H., Blockchain Implementation Barriers in Maritime: A Case Study based on ISM and MICMAC Techniques, *Journal of Maritime Research*, Vol. 20, No. 3, 2023, pp. 72-80, <https://www.jmr.unican.es/index.php/jmr/article/view/736/766> (Scopus)
2. **Bauk S.**, Mujalović R., Kapidani N., Paladin Z., Maritime Blockchain Prospects and Concerns, *Journal of Maritime Research*, Vol. 20, No. 2, 2023, accepted, to appear (Scopus)

3. **Bauk S.**, Analysis of Barriers in Maritime Blockchain Implementation, *High Technology Letters*, Volume 29, Issue 4, 2023, pp. 113-125. (Scopus)
4. **Bauk S.**, Group Learning Online Platforms for Virtual Exchange: Positive Practices, *High Technology Letters*, 29(1), 2023, pp. 460-467. (Scopus)
5. **Bauk S.**, Maritime Blockchain Principles and Concerns, *High Technology Letters*, 29(1), 2023, pp. 334-342. (Scopus)
6. Djurovic Z., **Bauk S.**, Testing corpus linguistics methods in ESP vocabulary teaching, *Journal of Teaching English for Specific and Academic Purposes* 2022, 10(2), pp. 319-337; <http://espeap.junis.ni.ac.rs/index.php/espeap/article/view/1256> (Scopus)
7. **Bauk S.**, Masuku M.B., Khumalo N., Enhancing virtual simulator training at MHET institutions, *High Technology Letters* 2022, 28(7), pp. 733-743. (Scopus)
8. **Bauk S.**, Masuku M.B., Concerning international virtual exchange at the MHE institution in South Africa, *High Technology Letters* 2022, 28(6), pp. 462-478. (Scopus)
9. **Bauk S.**, Masuku M.B., On adopting e-learning in maritime higher education in South Africa, *High Technology Letters* 2022, 28(5), pp. 98-113. (Scopus)
10. Kapidani N., **Bauk S.**, Davidson I.E.A., Developing Countries' Concerns Regarding Blockchain Adoption, *J. Mar. Sci. Eng.* 2021, 9(12), 1326; <https://doi.org/10.3390/jmse9121326> (SCIE)
11. Kapidani N., **Bauk S.**, Davidson I.E.A., Deploying Blockchain in Maritime: Developing Environments' Concerns, *High Technology Letters*, Vol. 27, Issue 9, 2021, Page(s) 942-951. (Scopus)
12. **Bauk S.**, Performances of Some Autonomous Assets in Maritime Missions, *TransNav – International Journal on Maritime Navigation and Safety of Sea Transportation*, Vol.14, No.4, December 2020, Page(s) 875-881. DOI: 10.12716/1001.14.04.12 (Scopus)
13. **Bauk S.**, Modelling Radioactive Materials Tracking in Sea Transportation by RFID Technology, *TransNav – International Journal on Maritime Navigation and Safety of Sea Transportation*, Vol.14, No.4, December 2020, Page(s): 1009-1014. DOI: 10.12716/1001.14.04.29 (Scopus)
14. **Bauk S.**, Kapidani, N., Sousa, L., Lukšić, Ž., Spuža, A., Advantages and disadvantages of some unmanned aerial vehicles deployed in maritime surveillance, *Journal of Maritime Research*, 2020, 17(3), pp. 81–87 (Scopus)
15. Kapidani N., **Bauk S.**, Davidson I.E.A., Digitalization in Developing Maritime Business Environments towards Ensuring Sustainability, *Sustainability* 2020, 12(2), 9235, <https://doi.org/10.3390/su12219235> (SCIE; SSCI)
16. **Bauk S.**, Fajardo-Flores S., Matching Interaction Design Principles and Integrated Navigation Systems in an Electronic Classroom, *Transactions in Maritime Science*, Vol. 9, No. 1, 2020, Page(s) 90-98, doi: 10.7225/toms.v09.n01.008 (Scopus)
17. **Bauk S.**, Kapidani N., Lukšić Ž., Rodrigues F., Sousa L., Autonomous marine vehicles in sea surveillance as one of the COMPASS2020 project concerns, *Journal of Physics: Conference Series*, Volume 1357, 2020, <https://iopscience.iop.org/article/10.1088/1742-6596/1357/1/012045> (Scopus)
18. **Bauk S.**, Collaborative Online International Learning Benefits Vis-A-Vis Concerns: An Empirical Study, *Montenegrin Journal of Economics*, Vol. 14, No.2, 2019, Page(s) 207-216. (Scopus)
19. **Bauk S.**, Leon Calvo, J. A., Schmeink, A., Azam, S., Mathar, R. (2019). On deploying vehicular communication at the developing seaport and related innovation success impediments. *Transport*, 34(1), Page(s) 126-134. <https://doi.org/10.3846/transport.2019.7987> (SCIE)
20. Vitic Cetkovic A., **Bauk S.**, Potocnik Topler J., Assessing Caterers' Satisfaction with Cruise Tourists' Behaviour, *Transformations in Business and Economics*, Vol. 18, No. 1 (46), March 2019, Page(s) 183-199. (SSCI)
21. Bešković B., Tvrđić E., **Bauk S.**, Developing Higher Berth Productivity: Comparison of Eastern Adriatic Container Terminals, *PROMET–Traffic and Transportation*, Vol. 31, No. 4, 2019, Page(s) 397-405. (SCIE)
22. **Bauk S.**, Schmeink A., Colomer J., An RFID Model for Improving Workers' Safety at the Seaport in Transitional Environment, *Transport*, Vol. 33, No. 2, 2018, Page(s) 353-363. (SCIE)

23. **Bauk S.**, Some ICT Systems for Increasing Occupational Safety with Reference to the Seaport Environment, *Our Sea – International Journal of Maritime Science and Technology*, Vol. 65, No. 2, June 2018, Page(s) 94-102. (Scopus)
24. **Bauk S.**, Gonzalez D.G., Schmeink A., A ZigBee/RFID safety system at the seaport, *Journal of Maritime Science and Technology*, Vol. 26, No. 1, February 2018, Page(s) 11-18. (SCle)
25. Radovic D., **Bauk S.**, Delibasic M., Institutional violence in Southeast Europe, *Transformations in Business & Economies*, Vol. 17, No. 2(44), 2018, Page(s) 42-59 (SSCI)
26. **Bauk S.**, Moving Education to Cloud: A pilot Study in Montenegrin Higher Education, *The New Educational Review*, Vol. 50, No. 4, December 2017, Page(s) 165-198 (Scopus)
27. **Bauk S.**, Kapidani N., Schmeink A., Holtham C., Concerning intelligent ICT exploitation in some maritime business organizations: A pilot study, *Our Sea – International Journal of Maritime Science and Technology*, Vol. 64, No. 2, June 2017, Page(s) 63-68 (Scopus)
28. **Bauk S.**, Kapidani N., Schmeink A., On Intelligent Use of ICT in Some Maritime Business Organizations, *Montenegrin Journal of Economics*, Vol. 13, No. 2, June 2017, Page(s)163-173 (Scopus)
29. **Bauk S.**, Schmeink A., Colomer J., Employing wireless networks in enhancing occupational safety at the developing seaport – Two proposals, *Polish Maritime Research*, No. 1(93) 2017, Vol. 24, Page(s) 115-124 (SCle)
30. Draskovic M., **Bauk S.**, Streimikiene D., Draskovic V., Testing the Level of Alternative Institutions as a Slowdown Factor of Economic Development – the Case of Montenegro, *Amfiteatru Economic*, Vol. 19, No. 45, April 2017, Page(s) 477-492 (SSCI)
31. **Bauk S.**, Draskovic M., Schmeink A., Challenges of Tagging Goods in Supply Chains and a Cloud Perspective with Focus on Some Transitional Economies, *PROMET – Traffic&Transportation*, Vol. 29. No. 1, January 2017, Page(s) 109-120 (SCle)
32. Draskovic M., **Bauk S.**, Dzankic R., Concerning the increasing SCM integration with a reference to some RFID challenges, *Transformations in Business & Economies*, Vol. 15, No. 1(37), 2016, Page(s) 77-92 (SSCI)
33. Draskovic M., **Bauk S.**, Delibasic M., Testing the level and factors of institutional rationality in Montenegro, Serbia and Bosnia and Herzegovina, *Economics & Sociology*, Vol. 9, No. 2, August 2016, Page(s) 22-40 (Scopus)
34. **Bauk S.**, Šekularac-Ivošević S., Jolić N., Seaport Positioning Supported by some Quantitative and Qualitative Approaches, *Transport*, Vol. 30, No. 4, December 2015, Page(s) 385-396 (SCle)
35. Ivanović Ž., **Bauk S.**, Multiphase Approach to Developing Model of Logistics for Coastal Tourist Destinations, *PROMET-Traffic & Transportation*, Vol. 26, No. 5, November 2014, Page(s) 405-418 (SCle)
36. Vitić-Četković A., **Bauk S.**, E-services and Positioning Passenger Ports in the Context of Cruise Tourism Promotion, *PROMET-Traffic & Transportation*, Vol. 26, No. 1, January 2014, Page(s) 83-93 (SCle)
37. Šćepanović S., **Bauk S.**, An Empirical Study in Evaluating the E-learning Dimension of Blended Model, *The New Educational Review*, Vol. 36, No. 2, 2014, Page(s) 82-94 (Scopus)
38. Šekularac-Ivošević S., **Bauk S.**, Gligorijević M., Combining the concepts of benchmarking and matrix game in marketing (re)positioning of seaports, *PROMET-Traffic & Transportation*, Vol. 25, No. 5, October 2013, Page(s) 431-443 (SCle)
39. Ivošević Š., **Bauk S.**, Nikolić D., Structural Degradation of the Bulk Carriers by the Corrosion, *Technics Technologies Education Management*, Vol. 8, No. 1, March 2013, pp. 21-30 (SCle)
40. **Bauk S.**, Ivošević Š., Combining Weibull Distribution Function and Monte Carlo Simulations in Predicting Corrosion Losses Over Inner Bottom and Hoper Plating of Ageing Bulk-Carriers, *Journal of Maritime Research*, Vol. 9, No. 3, December 2012, Page(s) 75-80 (Scopus)
41. **Bauk S.**, Aleksić M., Ivošević Š., Scanning the Fuel Tanks' Corrosion Wastage of some Aged Bulk Carriers due to the Security Reasons, *PROMET – Traffic & Transportation*, Vol. 23, No. 6, December 2011, Page(s) 459-470 (SCle)

42. Perovich S.M., Tošić D., **Bauk S.**, Kordić S., On the Exact Analytical Solutions of Certain Lambert Transcendental Equations, *Mathematical Problems in Engineering*, Vol. 2011 (2011), Article ID685485, 21 pages (SCIE)
43. Perovich S.M., **Bauk S.**, An Inverse Problem of Temperature Estimation for the Combination of the Linear and Nonlinear Resistances, *American Institute of Physics Advances*, Vol. 1, No. 2, May 2011, 14 pages (SCIE)
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MANAGEMENT EXPERIENCE

- The ERA Chair Holder of Maritime Cybersecurity (MariCybERA) at the Estonian Maritime Academy, Tallinn University of Technology (TalTech) (August 2023 - ...)
- Acting Head of Maritime Studies Department at Faculty of Applied Sciences of the Durban University of Technology, Durban, South Africa (April-October 2019)
- Vice-Dean for Science at Maritime Faculty Kotor of the University of Montenegro, Podgorica, Montenegro (2013-2014)
- Head of Doctoral Studies at Maritime Faculty Kotor of the University of Montenegro, Podgorica, Montenegro (2014-2016)
- Vice-Dean for Education at Maritime Faculty Kotor of the University of Montenegro, Podgorica, Montenegro (2016-2017)

THESIS SUPERVISED

Doctoral dissertation accomplished @ Durban University of Technology

- Nexhat Kapidani: ***Intelligent Use of Maritime Info-Communication Systems in Developing Environments***, Durban University of Technology, Faculty of Engineering and Built Environment, Electrical Power Engineering (Student No. 22064912) – Degree of Doctor of Engineering

Current PhD Students @ Durban University of Technology

- Lindani Handsome Ntshangase: ***Blockchain Technology Adoption in Supply Chains with reference to maritime sector in South Africa***, Durban University of Technology, Faculty of Management Science, Public Management Department, Student No. 20901185.
- Margaret Balungile Masuku: ***Balancing Between On-site and Online Teaching and Learning in South African Tertiary Education***, Durban University of Technology, Faculty of Management Science, Public Management Department, Student No. 22176191.

Current Master Students @ Durban University of Technology

- Marijan Ilcev: ***Global Maritime Distress and Safety System (GMDSS) Innovations for the 21st Century***, Durban University of Technology, Faculty of Accounting and Informatics, IT Department, Student No. 22064923.
- Ntokozi Khumalo: ***Enhancing Education and Training in Maritime Electronic Navigation by Fast Time Simulations***, Durban University of Technology, Faculty of Applied Sciences, Maritime Studies Department, Student No. 21348311.

Doctoral students co-supervised accomplished @ University of Montenegro

- Stjepčević Jelena: Institucionalni okvir korporativnog upravljanja u tranzicionim privredama s osvrtom na morske luke [***Institutional framework of corporate governance in transition economies with reference to seaports***], Univerzitet Crne Gore, Pomorski fakultet Kotor, Crna Gora (accomplished: 21. 02. 2019)
- Ivošević Špiro: Analiza strukturne degradacije brodskog trupa [***Analysis of structural degradation of the ship's hull***], Univerzitet Crne Gore, Pomorski fakultet Kotor, Crna Gora (accomplished: 17. 09. 2012)

Note: The cohort of prospective doctoral students at University of Montenegro, where I was working for years, is traditionally small. Reasons are numerous. Candidates are not motivated; they are looking for jobs that are more lucrative; social and economic conditions are not encouraging, etc. I claim that I gave substantial contribution in successful accomplishment of doctoral dissertations of: Mr Špiro Ivošević, Ms Senka Šekularac-Ivošević, Mr Nikola Konjević, and Ms Jelena Stjepčević, although it is not officially recorded.

Master Thesis (6) accomplished @ University of Montenegro

- Bojana Čabrić: Pomorstvo u Crnoj Gori kroz istoriju i u eri informatičke revolucije [***Maritime affairs in Montenegro through history and in the era of information revolution***], Univerzitet Crne Gore, Fakultet za pomorstvo, Kotor, Crna Gora (accomplished: 19.09.2016)
- Đuro Popović: Analiza pozitivnih uticaja informacionih tehnologija na nautički turizam u Crnoj Gori [***Analysis of the positive impacts of information technologies on nautical tourism in Montenegro***], Univerzitet Crne Gore, Fakultet za pomorstvo, Kotor, Crna Gora (accomplished: 19.09.2016)
- Nexhat Kapidani: Implementacija sistema nadzora i upravljanja pomorskim saobraćajem u Crnoj Gori [***Implementation of maritime traffic control and management system in Montenegro***], Univerzitet Crne Gore, Fakultet za pomorstvo, Kotor, Crna Gora (accomplished: 10.09.2014)
- Radoje Džankić: Napredne informaciono-komunikacione tehnologije u nadzoru i upravljanju pomorskim saobraćajem [***Advanced information and communication technologies in maritime traffic control and management***], Univerzitet Crne Gore, Fakultet za pomorstvo, Kotor, Crna Gora (accomplished: 19.09.2012)
- Ilija Andrić: Informaciona podrška upravljanju otpadom na Crnogorskom primorju u cilju zaštite ekosistema [***Information support for waste management on the Montenegrin coast in order to protect ecosystem***], Univerzitet Crne Gore, Fakultet za pomorstvo, Kotor, Crna Gora (accomplished: 11.07.2012)
- Marija Kaluđerović: Alati e-poslovanja u lukama na primjeru ERP softvera [***E-commerce tools in ports on the example of ERP software***], Univerzitet Crne Gore, Fakultet za pomorstvo, Kotor, Crna Gora (accomplished: 11.07.2012)

Master Thesis co-supervised (2) accomplished @ RWTH Aachen University

- Diego Garcia Gonzales, ***Wireless sensor network vs. mobile ad hoc networks***, RWTH-Aachen University, Aachen, Germany, September 2016
- Joan Colomar Rodriugez, ***Development of a wireless network model for controlling environmental and work safety in ports in developing countries***, RWTH-Aachen University, Aachen, Germany, June 2015

BSc (Hons) Thesis supervised (>40) accomplished @ University of Montenegro

- Snežana Pavlović (38/M-2017): Digitalna podjela i njen uticaj na pomorstvo [***Digital divide and its impact on maritime affairs***] (defended: 24.09.2018)

- Božana Tešević (09/M-2017): Korišćenje savremenih informacionih tehnologija u administrativnim i upravljačkim poslovima u pomorstvu [***Use of modern information technologies in administrative and management affairs in maritime***] (defended: 11.07.2018)
- Krivokapić Miloš (09/PN-2014): Praćenje korozionih oštećenja prilikom eksploatacije broda [***Monitoring of corrosion damages during the ship's operation circle***] (defended: 27.12.2017)
- Milica Bulajić (10/PN-2016): Internet stvari sa osvrtom na pomorstvo [***Internet of Things with reference to maritime***] (defended: 17.10.2017)
- Nikoleta Franović (05/PN-2016): E-navigacija i ECDIS [***E-navigation and ECDIS***] (defended: 14.09.2017).
- Boris Buvač (04/PN-2016): E-navigacija i pomorski Kloud [***E-navigation and maritime Cloud***] (defended: 20.07.2017)
- Ljiljana Vučetić (09/PN-2015): E-navigacija i pomorski kloud u kontekstu Interneta svega [***E-navigation and maritime Cloud in the context of Internet of Everything***] (defended: 18.04.2017)
- Gordana Balšić (31/M-2013): Internet kao medijum digitalne ekonomije [***Internet as a medium of digital economy***] (defended: 23.03.2016)
- Saša Dragutinović (5/PN-2013): Internet na plovilima [***Internet on vessels***] (defended: 23.03.2016)
- Maja Filipović (33/M-2013): Elektronske nautičke karte i sistemi [***Electronic navigational charts and systems***] (defended: 21.02.2017)
- Aleksandra Bošković (14/PN-2014): Internet stvari [***Internet of Things***] (defended: 03.11.2016)
- Stevan Lučić (11/M-2013): Upravljanje promjenama u poslovanju sa osvrtom na e-poslovanje [***Management of change and its impact on business with a focus on e-business***] (defended: 27. 04. 2016)
- Petar Martinović (18/M-2014): E-trgovina danas i u perspektivi [***E-commerce, today and in the future***] (defended: 27.04.2016)
- Dražen Mihaliček (20/M-2012): Facebook – za i protiv [***Facebook - pros and cons***] (defended: 29.10.2014)
- Željko Krivokapić (1/PN-2013): Savremene IT aplikacije u pomorstvu – ERP i RFID [***Contemporary IT applications in maritime - ERP and RFID***] (defended: 29.10.2014)
- Danica Šaranović (34/M-2013): Neki primjeri primjene linearnog programiranja u optimizaciji pomorskog transporta [***Some examples of the application of linear programming in maritime transport optimization***] (defended: 17.09.2014)
- Helena Perović (27/M-2013): Informacioni sistemi lučkih usluga u administrativnoj službi [***Information systems for port administrative services***] (defended: 17.09.2014)
- Miloš Popović (18/M-2010): E-trgovina sa mogućnostima primjene u pomorstvu [***E-commerce and maritime applications***] (defended: 05.06.2014)
- Predrag Pajović (23/M-2012): Informacioni sistemi u osiguranju [***Information systems in insurance***] (defended: 23.04.2014)
- Danijela Komljenović (11/M-2012): E-poslovanje vs e-trgovina [***E-business vs. E-commerce***] (defended: 09.11.2013)
- Anita Pasković (12/M-2012): Perspektive e-trgovine [***Prospective of E-commerce***] (defended: 09.11.2013)
- Dejan Buntić (32/M-2010): Principi e-poslovanja sa mogućnostima primjene u pomorstvu [***Principles of e-business with applications in maritime***] (defended: 09.10.2013)
- Filip Popović (18/M-2011): Osnovi e-poslovanja i mogućnosti primjene u pomorstvu [***Basics of e-business with maritime applications***] (defended: 09.10.2013)
- Aleksandar Popović (16/M-2012): Internet kao medijum e-poslovanja i mogućnosti primjene u pomorstvu [***Internet as a medium of e-business and possibilities of application in maritime***] (defended: 09.10.2013)
- Aleksandar Ožegić (18/M-2012): Internet i društvene mreže [***Internet and social networks***] (defended: 09.10.2013)
- Milica Delibašić (34/M-2012): Informacioni sistemi u poslovnim sistemima sa osvrtom na obrazovanje pomoraca [***Information systems in business with a focus on seafarer education***] (defended: 25.09.2013)

- Radmila Gagić: Kvantitativno-kvalitativna analiza oštećenja balk-kerijera [**Quantitative-qualitative analysis of bulk-carriers damages**], Fakultet za pomorstvo, Kotor, Specijalistički rad (defended: 25.09.2012)
- Antonia Orlando: E-poslovanje u pomorstvu [**E-business in maritime**], Fakultet za pomorstvo, Kotor, Specijalistički rad (defended: 19.09.2012)
- Tomislav Saulačić: **GPS – Global Positioning System**, Fakultet za pomorstvo, Kotor, Specijalistički rad (defended: 25.09.2012)
- Radisav Pavić: Elektronski navigacioni sistemi [**Electronic navigation systems**], Fakultet za pomorstvo, Kotor, Specijalistički rad (defended: 11.07.2012)
- Bojana Bečanović: RFID tehnologija u pomorskom transportu [**RFID technology in maritime transport**], Fakultet za pomorstvo, Kotor, Specijalistički rad (defended: 25.11. 2011)
- Slobodan Vulović: Principi rada i performanse GPS-a [**GPS operational principles and performances**], Fakultet za pomorstvo, Kotor, Specijalistički rad (defended: 16.11.2011)
- Boško Drakulović: Modovi rada radara [**Radar modes of operation**], Fakultet za pomorstvo, Kotor, Specijalistički rad (defended: 07.09.2011)
- Milivoje Janjević: ECDIS sistem elektronske navigacije [**ECDIS system of electronic navigation**], Fakultet za pomorstvo, Kotor, Specijalistički rad (defended: 11.07.2011)
- Miloš Mitrović: AIS kao informaciono-komunikacioni sistem kratkog dometa [**AIS as a short-range information and communication system**], Fakultet za pomorstvo, Kotor, Specijalistički rad (defended: 12.05.2011)
- Aleksandar Sošić: Informaciono-komunikacioni sistemi za praćenje broda u luci i navigaciji [**Information and communication systems for ship monitoring in port and in navigation**], Fakultet za pomorstvo, Kotor, Specijalistički rad (defended: 09.07.2010)
- Marko Popović: On-line poslovanje sa osvrtom na pomorstvo [**On-line business with reference to maritime**], Fakultet za pomorstvo, Kotor, Specijalistički rad (defended: 02.07.2009).
- Boris Moric: Inteligentni agenti u e-poslovanju [**Intelligent agents in e-business**], Fakultet za pomorstvo, Kotor, Specijalistički rad (defended: 02.07.2009)
- Radoje Džankić: Radar u funkciji kontrole pomorskog saobraćaja s kopna [**Radar in the function of maritime traffic control from shore**], Fakultet za pomorstvo, Kotor, Specijalistički rad (defended: 02.07.2009)
- Zvonko Raste: Mehanizmi elektronskog plaćanja [**Electronic payment mechanisms**], Fakultet za pomorstvo, Kotor, Specijalistički rad (defended: 01.09.2008)

EDITORIAL WORK

- **Montenegrin Journal of Economics** (ISSN: 1800-5845; eISSN: 1800-6698 - Scopus)
- **Journal of Competitiveness** (ISSN: 1804-171X; eISSN: 1804-1728 - SSCI)

REVIEWER IN ACREDITED JOURNALS

(>70 papers revised)

- **Education Research International** (ISSN: 2090-4002)
- **Research in Transportation Business & Management** (ISSN: 2210-5395)
- **Safety Science** (ISSN: 0925-7535)
- **Transport** (ISSN: 1648-4142)
- **Journal of Marine Science and Technology-Taiwan** (ISSN: 1023-2796)
- **PROMET-Traffic & Transportation** (ISSN: 0353-5320)
- **URBE-Revista Brasileira de Gestao Urbana** (ISSN: 2175-3369)
- **Transactions on Maritime Science** (ISSN: 1848-3305)

- *Pomorstvo* (ISSN: 1332-0718)
- *Journal of Navigation* (ISSN: 0373-4633)

INVITED TALKS AT INTERNATIONAL MEETINGS

- **Bauk S., *Determinants of the development trends, fundamental future perspectives and challenges in the maritime landscape in KwaZulu-Natal***, Programme for Government Research Forum Engagement Workshop: KZN Office of the Premier, Pietermaritzburg, 20th March, 2020
- **Bauk S., *Vehicle-to-Everything (V2X) communications in enhancing on port workers safety: Simulation experiments' results***, The 4th Industrial Revolution Summit for Economic Development Programme, Moses Kotane Institute, Durban ICC, 25th-26th March, 2019
- **Bauk S., *Multiphase approach to developing model of logistics for coastal tourist destinations***, Hamburg University, Institute for Operations Research, Hamburg, Germany, 9th May, 2017
- **Bauk S., *Modelling smart network for enhancing safety at seaport***, ZBW-Leibniz Informationszentrum Wirtschaft, Forschungskolloquium, Kiel, Germany, 15th June, 2016
- **Bauk S., *Developing an RFID model for improving workers' safety at the seaport in transitional environment***, RWTH Aachen University, Institute for Theoretical Information Technology, AG Kommunikationstheorie, Aachen, Germany, 25th January, 2016
- **Bauk S., *On impediments in publishing research papers***, The 3rd International Conference - Principles of Transparency and Good Practice in Scholarly Publishing, Podgorica, Montenegro, 3rd-4th May, 2017
- **Bauk S., *Feasibility studies for port operators: Guidelines and index for the feasibility studies***, TEN-ECOPORT Project, The 5th PSC meeting, Polytechnic University of Tirana - "Sheshi Nene Teresa", Tirana, Albania, 4th April, 2014

DOCTORAL DISSERTATION & MASTER THESIS

- **Bauk S., *Intelligent information systems for some route optimization problems in sea and port transportation***, Doctoral dissertation, Faculty of Traffic and Transportation Engineering, University of Belgrade, Belgrade, Serbia, 2005
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- **Bauk S., *Information and communication technologies in ship route optimization***, Master thesis, Faculty of Traffic and Transportation Engineering, University of Belgrade, Belgrade, Serbia, 2001
https://biblioteka.sf.bg.ac.rs/index.php?p=show_detail&id=12611&keywords=Sanja+Bauk
(Hard copy available in the Library; accessed on 14/08/2023)

PROMOTION OF STUDENTS' DEVELOPMENT

- As an example, from 2019 to 2023, I have successfully accomplished ten Collaborative Online International Learning (COIL) projects at Durban University of Technology (South Africa), with peers from the University of Colima (Mexico), Fatec Jahu and Fatec Rio Preto (Brazil), University of Monterrey (Mexico), Tianjin Normal University (China), Hunter College, LaGuardia Community Colleges and New Jersey City University (the USA). More than 400 at Durban University of Technology were engaged, while we used tools as Skype, Zoom, Teams, Google Docs, WhatsApp, Trello, Padlet, Slack, Flipgrid, Perusall, WebQuest, and the like.

PEDAGOGICAL PRACTICE

- I introduce my students to the space of science and research, through sophisticated, intelligently designed presentations of academic works and research projects and through dynamic, inspiring scientific and professional discussions.
- I consider myself as an open-minded lecturer, who stimulates students to think, analyze, cooperate, collaborate, create, and above all gives them freedom to explore.

As of March 2024