| Predmet: | STOHASTIČNI PROCESI V LOGISTIKI |
| --- | --- |
| Course title: | STOCHASTIC PROCESSES IN LOGISTICS |

| Študijski program in stopnja<br>Study programme and level | Študijska smer<br>Study field | Letnik<br>Academic year | Semester<br>Semester |
| --- | --- | --- | --- |
| LOGISTIKA SISTEMOV 2.stopnja | | 2. | 3. |
| SYSTEM LOGISTICS 2nd degree | | 2. | 3. |

| Vrsta predmeta / Course type | IZBIRNI |
| --- | --- |

| Univerzitetna koda predmeta / University course code: | MAG |
| --- | --- |

| Predavanja<br>Lectures | Seminar<br>Seminar | Vaje<br>Tutorial | Klinične vaje<br>Laboratory work | Druge oblike študija<br>Field work | Samost. delo<br>Individ. work | ECTS |
| --- | --- | --- | --- | --- | --- | --- |
| 24 e-P<br>21 a-P | | 6 e-V<br>34 a-V | | | 65 | 5 |

| Nosilec predmeta / Lecturer: | ĐANI JURIČIĆ, DEJAN DRAGAN |
| --- | --- |

| Jeziki /<br>Languages: | Predavanja / Lectures: | SLOVENSKI / SLOVENE |
| --- | --- | --- |
| | Vaje / Tutorial: | SLOVENSKI / SLOVENE |

| Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti: | Prerequisits: |
| --- | --- |
| Ni pogojev. | None. |

| Vsebina: | Content (Syllabus outline): |
| --- | --- |
| Teorija verjetnosti: Diskretne naključne spremenljivke in porazdelitve, Zvezne naključne spremenljivke in porazdelitve, Številske statistične karakteristike, Multivariantne porazdelitve, Pogojne in mejne porazdelitve, Funkcija največjega verjetja. | Probability Theory : Discrete random variables and distributions , Continuous random variables and distributions, Statistical characteristics, Multivariate distributions, Conditional and marginal distributions, The maximum likelihood function. |
| Stohastični procesi: Markovski procesi in markovske verige, Poissonovi procesi, Rojstno-smrtni procesi. Aplikacije v logističnih sistemih. | Stochastic processes : Markov processes and Markov chains , Poisson processes , Birth-death processes . Applications in logistics systems. |
| Uvod v analitično teorijo množične strežbe: Enokanalni strežni sistemi, Večkanalni strežni sistemi, Razlaga reševanja praktičnih in hipotetičnih primerov na podlagi realiziranih diplom. | Introduction to the analytic queuing theory: Single channel queuing systems , Multi channel queuing systems, Explanation of solving practical and hypothetical cases on the basis of worked diplomas . |
| Optimalno upravljanje zalog pri stohastičnem povpraševanju: Newsboy enoperiodični model, Zvezni (Q,s) model za zvezno pregledovanje stanja zalog, Periodični model za periodično pregledovanje stanja zalog. Razlaga reševanja praktičnih primerov na podlagi realiziranih diplom. | Optimal inventory management for the case of stochastic demand: Newsboy one-period model, Continuous review model (Q, s), Periodic review model for periodically reviewing the status of inventory. Interpretation of practical applications on the basis of worked diplomas. |
| Teorija regresije in napovedovanja v operacijskih raziskavah in ekonometriji:<br>Poglobitev znanj iz področja regresijskih modelov in | The theory of regression and forecasting in operations research and econometrics:<br>Advanced knowledge in the field of regression models |

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| njihove uporabe v statistiki, pri napovedovanju, v operacijskih raziskavah in v ekonometriji. | and their application in statistics and forecasting, operations research and econometrics. |
| Modeliranje in napovedovanje časovnih vrst v logistiki in ekonometriji:<br>Poglobitev znanj iz področja modeliranja in napovedovanja časovnih vrst, kot npr. uporaba dinamičnih modelov s porazdeljenimi zakasnitvami in Box-Jenkins modelov. Primeri iz operacijskih raziskav, oskrbnih verig in ekonometrije. | Modeling and forecasting of time series in logistics and econometrics:<br>Advanced knowledge in the field of modeling and forecasting of time series, as for example the use of Distributed lag models and Box-Jenkins models. Examples from the Operations Research, Supply chains and Econometrics. |
| Statistične analize v pomorski in pristaniški logistiki ter prometu. | Statistical analysis in the maritime and port logistics, in the transport, and in the traffic. |
| Reševanje problemov sledenja in navigacije s filtri. | Solving of the tracking and navigation problems by the means of filters. |
| Programska orodja: Scilab, Matlab in kloni. | Software tools : Scilab, Matlab and clones . |

Temeljni literatura in viri / Readings:

E-gradivo predmeta.
DRAGAN, Dejan: Stohastični procesi v logistiki : visokošolski učbenik, E-gradivo predmeta. Celje: Fakulteta za logistiko, 2017, 570 str.
DRAGAN, Dejan, VIZINGER, Tea. Stohastični procesi v logistiki: prosojnice. Celje: Fakulteta za logistiko, 2012, 1109 str.
Ostala gradiva (slo):
DRAGAN, Dejan. Logistična regresija s programskim orodjem Matlab : skripta. Celje: Fakulteta za logistiko, 2014.
DRAGAN, Dejan: Stohastični procesi v logistiki : visokošolski učbenik. Celje: Fakulteta za logistiko, 2013.
DRAGAN, Dejan: Upravljanje logističnih sistemov : visokošolski učbenik. Celje: Fakulteta za logistiko, 2009.
DRAGAN, Dejan: Statistika, analiza podatkov in statistični modeli, neobjavljen učbenik v pripravi, 2014.
DRAGAN, Dejan: Predstavitev optimalnih strategij za upravljanje zalog pri stohastičnem povpraševanju : interno dodatno gradivo, 2009.
Alenka Hudoklin, Roman Sabolek, Alenka Brezavšček: Stohastični procesi: Zbirka rešenih nalog, Moderna, Fakulteta za organizacijske vede UM, 2000.
Alenka Hudoklin Božič: Stohastični procesi, Moderna, Fakulteta za organizacijske vede UM, 2003.

Ostala gradiva (ang):
Brown, R. G., Introduction to Random Signals and Applied Kalman Filtering with Matlab Exercises and Solutions, Wiley, 3rd Edition, 1996.
Kutner, M.: Applied Linear Regression Models, McGraw-Hill, 4th ed., 2004.
Bartlett, M. S. (1978). An Introduction to Stochastic Processes: With Special Reference to Methods and Applications.
Bhat, B. R. (2004). Stochastic Models: Analysis and Applications: New Age International.
Box G., Jenkins, G.M,: Time Series Analysis: Forecasting and Control, Wiley, 4th ed., 2008.
Bowerman B.L.: Forecasting, Time Series, and Regression, Cengage Learning, 4th edition, 2004.
Cox, D. R. (2017). The Theory of Stochastic Processes: Routledge.
Goodman, Roe. (1988). Introduction to Stochastic Models: Courier Corporation.
Gross, Donald, Shortle, John F., Thompson, James M., & Harris, Carl M. (2011). Fundamentals of Queueing Theory: John Wiley & Sons.
Heyman, Daniel P., & Sobel, Matthew J. (1982). Stochastic Models in Operations Research: Stochastic Processes and Operating Characteristics: Courier Corporation.
Hsu H.: Schaum's Outline of Probability, Random Variables, and Random Processes, McGraw-Hill, 1997.
Kleinrock, Leonard. (1976). Queueing Systems: Theory: Wiley.
Lawler, Gregory F. (2006). Introduction to Stochastic Processes, Second Edition: CRC Press.
Muckstadt, John A., & Sapra, Amar. (2010). Principles of Inventory Management: When You Are Down to Four, Order More: Springer Science & Business Media.
Papoulis A.: Probability, Random Variables and Stochastic Processes with Errata Sheet, McGraw-Hill Science/Engineering/Math, 4th edition, 2001.

Ross S.M.: Introduction to Probability Models, Academic Press, 1997.
Nelson, R.: Probability, stochastic processes, and queueing Theory, Springer, 1995.
Winston W.L.: Operations Research: Applications and Algorithms, Cengage Learning, 4th ed., 2003.
Waters D., inventory Control and Management, Wiley, 2nd ed., 2003.

| Cilji in kompetence: | Objectives and competences: |
|---|---|
| Cilj tega predmeta je: | This course will help students: |
| • nadgraditi pojme teorije stohastičnih procesov, | • to upgrade the issues in the theory of stochastic processes, |
| • naučiti se ocenjevati statistične pokazatelje stohastičnih procesov, | • to gain a deeper understanding of estimation of statistical indicators in stochastic processes, |
| • pridobiti sposobnost interpretacije nedoločenih pojavov, | • to gain the ability to interpret uncertain events, |
| • usposobiti se za uporabo teoretičnega znanja pri obravnavi zahtevnejših stohastičnih procesov v logistiki. | • to gain the ability to apply theoretical knowledge for the purpose of solving of more complicated stochastic problems in logistics. |

| Predvideni študijski rezultati: | Intended learning outcomes: |
|---|---|
| Znanje in razumevanje: | Knowledge and Understanding: |
| • nadgraditi razumevanje postopkov in orodij za analizo in uporabo stohastičnih modelov, | • to enhance the understanding of procedures and tools for the construction of stochastic models, |
| • spoznati raziskovalno področje stohastičnih procesov in ga prepoznati kot morebitno polje bodočega znanstvenega dela, | • to get familiar with scientific field of stochastic processes and recognize it as a possible field of future scientific work, |
| • pridobiti poglobljeno razumevanje iz teorije stohastičnih procesov ter uporabe stohastičnih modelov, | • to get the ability to co-operate in solving more complicated stochastic problems in logistics, |
| • se usposobiti za samostojno znanstveno raziskovalno delo na tem področju, | • to qualify for independent research and scientific work in this field, |
| • se usposobiti za predstavitev svojega raziskovalnega dela (članki, referati), | • to qualify for presentation of scientific work by the means of publishing (papers), |
| • spoznati uporabne vsebine in se naučiti sistemskega razmišljanja, kako pristopiti k reševanju realnih problemov, | • to get familiar with useful contents and to gain the possibility of systematical thinking about solving of real problems, |
| • pridobiti razumevanje teoretičnih ozadij, nujno potrebnih za interpretacijo dobljenih rezultatov računalniških orodij in ocenitev kakovosti razvitih stohastičnih in statističnih modelov. | • to gain the understanding of theoretical background, necessary for the interpretation of achieved resuls given by computer software and to verify the quality of developed stochastic and statistical models. |
| Prenesljive/ključne spretnosti in drugi atributi: | Transferable/Key Skills and other attributes: |
| Zmožnost sodelovanja pri reševanju zahtevnejših problemov stohastične narave v logististično okoljih. Obvladovanje znanstvenih podlag in praktičnih spretnosti za nadaljnji študij in delo v logističnih in nelogističnih podjetjih. | The ability to co-operate in solving more complicated stochastic problems in logistics. Understanding scientific and practical competences for further studies and work in logistical and non-logistical companies. |

| Metode poučevanja in učenja: | Learning and teaching methods: |
|---|---|
| Predavanja: pri predavanjih študent spozna teoretične vsebine predmeta. Del predavanj se izvaja na klasični način v predavalnici, del pa v obliki e-predavanj (e-predavanja se lahko izvajajo na videokonferenčni način ali s pomočjo posebej v ta namen didaktično pripravljenih e-gradiv v virtualnem elektronskem učnem okolju). | Lectures: Students understand the theoretical frameworks of the course. Part of the lecture course is in a classroom while the rest is in the form of e-learning (e-lectures may be given via video-conferencing or with the help of specially designed e-material in a virtual electronic learning environment). |
| Vaje: pri vajah študent utrdi teoretično znanje in spozna aplikativne možnosti. Del vaj se izvaja na klasični način v predavalnici, del pa v obliki e-vaj (e-vaje se lahko izvajajo | Tutorials: Students enhance their theoretical knowledge and are able to apply it. Part of the seminar is in a classroom while the rest is in the form of e-learning (e- |

| na videokonferenčni način ali s pomočjo posebej v ta namen didaktično pripravljenih e-gradiv v virtualnem elektronskem učnem okolju). | tutorials may be given via video-conferencing or with the help of specially designed e-material in a virtual electronic learning environment). |
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| Načini ocenjevanja: | Delež (v %) / Weight (in %) | Assessment: |
|---|---|---|
| Opravljene obveznosti e-predavanj in e-vaj so pogoj za pristop k izpitu. | | Successful completion of e-lectures and e-tutorials is a prerequisite for entering the exam. |
| • Opravljen seminar. | 30% | • Coursework. |
| • Pisni izpit. | 40% | • Written examination. |
| • Ustni izpit. | 30% | • Oral examination. |

Reference nosilca / Lecturer's references:

**1. Marko INTIHAR, Tomaž KRAMBERGER, Dejan DRAGAN.** Container Throughput Forecasting Using Dynamic Factor Analysis and ARIMAX Model. Promet – Traffic&Transportation engineering, ISSN 0353-5320. [Print ed.], 2017, vol. 29, no. 5, str. 529-542. [JCR, SNIP, WoS]. doi: 10.7307/ptt.v29i5.2334.

**2. DRAGAN, Dejan, ROSI, Bojan, AVŽNER, Toni.** Synergies between an observed port and a logistic company : application of the discounted cash-flow model and the Monte Carlo simulation. *Logistics & sustainable transport*, ISSN 2232-4968. [Spletna izd.], May 2017, vol. 8, no. 1, str. 1-18, ilustr. https://doi.org/10.1515/jlst-2017-0001, doi: 10.1515/jlst-2017-0001. [COBISS.SI-ID 512846141]

**3. TOPOLŠEK, Darja, DRAGAN, Dejan.** Integration of travel agencies with other supply chain members : impact on efficiency. *Logistics & sustainable transport*, ISSN 2232-4968. [Spletna izd.], Oct. 2016, vol. 7, no. 1, str. 1-17.https://www.degruyter.com/downloadpdf/j/jlst.2016.7.issue-1/jlst-2016-0001/jlst-2016-0001.xml, doi: 10.1515/jlst-2016-0001. [COBISS.SI-ID 512794173]

**4. TOPOLŠEK, Darja, DRAGAN, Dejan.** Relationships between the motorcyclists' behavioural perception and their actual behaviour. *Transport*, ISSN 1648-3480. [Online ed.]. http://www.tandfonline.com/doi/abs/10.3846/16484142.2016.1141371, doi: 10.3846/16484142.2016.1141371. [COBISS.SI-ID 512755261], [JCR, SNIP, Scopus do 31. 8. 2017: št. citatov (TC): 1, čistih citatov (CI): 1]

**5. KOVAČIĆ, Nataša, TOPOLŠEK, Darja, DRAGAN, Dejan**. Tourism sector, travel agencies, and transport suppliers : comparison of different estimators in the structural equation modeling. *Logistics & sustainable transport*, ISSN 2232-4968. [Spletna izd.], 2015, vol. 6, iss. 1, str. 11-24. http://www.degruyter.com/view/j/jlst.2015.6.issue-1/jlst-2015-0007/jlst-2015-0007.xml?format=INT, doi: 0.1515/jlst-2015-0007. [COBISS.SI-ID 512729661]

**6. TOPOLŠEK, Darja, DRAGAN, Dejan.** Behavioural comparison of driverswhen driving a motorcycle or a car : a structural equation modelling study. *Promet*, ISSN 0353-5320. [Print ed.], 2015, vol. 27, no. 6, str. 457-466, ilustr.http://www.fpz.unizg.hr/traffic/index.php/PROMTT/issue/view/163. [COBISS.SI-ID 512739133], [JCR, SNIP, WoS do 13. 2. 2016: št. citatov (TC): 0, čistih citatov (CI): 0, Scopus do 20. 1. 2016: št. citatov (TC): 0, čistih citatov (CI): 0]

**7. KRAMBERGER, Tomaž, DRAGAN, Dejan, PRAH, Klemen**. A heuristic approach to reduce carbon dioxide emissions. *Proceedings of the Institution of Civil Engineers - Transport*, ISSN 0965-092X. [Print ed.], Okt. 2014, vol. 167, iss. 5, str. 296-305.http://www.icevirtuallibrary.com/content/article/10.1680/tran.11.00053, doi: 10.1680/tran.11.00053. [COBISS.SI-ID 512554557], [JCR, SNIP, WoS do 12. 1. 2015: št. citatov (TC): 1, čistih citatov (CI): 1, Scopus do 27. 9. 2017: št. citatov (TC): 2, čistih citatov (CI): 2]

**8. DRAGAN, Dejan, VIZINGER, Tea, INTIHAR, Marko, KRAMBERGER, Tomaž, FOŠNER, Maja, PRAH, Klemen**. Reconstruction of delivery positions in the city of Celje, Slovenia. *Transport problems : international scientific journal*, ISSN 1896-0596. [Printed ed.], 2013, vol. 8, iss. 2, str. 11-24. http://www.transportproblems.polsl.pl/pl/Archiwum/2013/zeszyt2/2013t8z2_02.pdf. [COBISS.SI-ID 512516157], [SNIP, Scopus do 17. 8. 2013: št. citatov (TC): 0, čistih citatov (CI): 0]

**9. DRAGAN, Dejan, KRAMBERGER, Tomaž, LISEC, Andrej, INTIHAR, Marko, PRAH, Klemen**. Using GIS for the optimization of pupils transportation : the case of Laško municipality. *Logistics & sustainable transport*, ISSN 1854-3332. [Tiskana izd.], 3. sept. 2011, vol. 2, no. 3, str. 35-51.http://jlst.fl.uni-mb.si/index.php/journal/article/view/32. [COBISS.SI-ID 512357437]

**10. DRAGAN, Dejan, KRAMBERGER, Tomaž, LIPIČNIK, Martin.** Monte Carlo simulation-based approach to optimal bus stops allocation in the Municipality of Laško. *Promet*, ISSN 0353-5320. [Print ed.], 2011, vol. 23, no. 4, str. 265-278. [COBISS.SI-ID 512342333], [JCR, SNIP, WoS do 5. 2. 2015: št. citatov (TC): 1, čistih citatov (CI): 0, Scopus do 31. 8. 2017: št. citatov (TC): 3, čistih citatov (CI): 3]

**11. DRAGAN, Dejan.** Fault detection of an industrial heat-exchanger : a model-based approach. *Strojniški vestnik*, ISSN 0039-2480, jun. 2011, vol. 57, no. 6, str. 477-484, ilustr., doi: 10.5545/sv-jme. 2010.128. [COBISS.SI-ID 512232253], [JCR, SNIP, WoS do 6. 7. 2016: št. citatov (TC): 4, čistih citatov (CI): 4, Scopus do 25. 11. 2016: št. citatov (TC): 7, čistih citatov (CI): 7]

**12. DRAGAN, Dejan, JURIČIĆ, Đani, STRMČNIK, Stanko.** Modelling for condition monitoring : application to a heat transfer process. *Process control and quality*, ISSN 0924-3089, 2000, vol. 11, str. 419-431. [COBISS.SI-ID 15697191], [JCR, WoS do 15. 2. 2013: št. citatov (TC): 1, čistih citatov (CI): 0]

**13. DRAGAN, Dejan, LISEC, Andrej, KRAMBERGER, Tomaž, INTIHAR, Marko**. The impact of macroeconomic indicators on forecasting a total cargo throughput in the Adriatic seaport. V: PAWAR, Kulwant S (ur.), POTTER, Andrew (ur.), LISEC, Andrej (ur.). *Data driven supply chains : The proceedings of 22nd International Symposium on Logistics, Ljubljana, Slovenia, 9-12th July 2017*. Nottingham: Business School. cop. 2017, str. 502-511. http://www.isl21.org/wp-content/uploads/2017/07/Full-paper-

31072017.pdf. [COBISS.SI-ID 512852029]

**14. POPOVIĆ, Vlado, DRAGAN, Dejan, JEREB, Borut.** Electric vehicles as an electricity storage in electricity supply chain. V: VIDOVIĆ, Milorad (ur.). *Proceedings of the 3rd Logistics International Conference, Belgrade, 25-27 May, 2017*. Belgrade: Faculty of Transport and Traffic Engineering. 2017, str. 173-178. http://logic.sf.bg.ac.rs/wp-content/uploads/2017/LOGIC%202017%20Proceedings%20b5.pdf. [COBISS.SI-ID 512849213]

**15. POPOVIĆ, Vlado, DRAGAN, Dejan, JEREB, Borut.** Stabilizing electric power from solar photovoltaic panels by using electric vehicles. V: *Solaris Conference 2017 : Darwin/Newton North, Hamilton Centre, London, 27 July 2017 to 28 July 2017*. London: Brunel University. 2017, [6] str. [COBISS.SI-ID 512865085]

**16. DRAGAN, Dejan, KRAMBERGER, Tomaž, TOPOLŠEK, Darja**. Supply chain integration and firm performance in the tourism sector. V: IPAVEC, Vesna Mia (ur.), KRAMBERGER, Tomaž (ur.). *Pre-conference proceedings of the 12th International Conference on Logistics & Sustainable Transport 2015, University of Maribor, Faculty of Logistics, Celje, Slovenia, 11-13 June 2015*. Celje: Faculty of Logistics. 2015, str. 30-47, ilustr. [COBISS.SI-ID 512678973]

**17. INTIHAR, Marko, KRAMBERGER, Tomaž, DRAGAN, Dejan.** The relationship between the economic indicators and the accuracy of container throughput forecasting. V: *The role of maritime clusters and innovation in shaping future global trade*. [S. l.: s. n. 2015], str. 1-25, ilustr. [COBISS.SI-ID 512700221]

**18. DRAGAN, Dejan, KRAMBERGER, Tomaž, INTIHAR, Marko.** A comparison of methods for forecasting the container throughput in North Adriatic ports. V: *IAME 2014 : conference proceedings*, International Association of Maritime Economists Conference, IAME 2014, Norfolk, 15-18 July 2014. Norfolk: [S. n.]. 2014, 21 str. [COBISS.SI-ID 512589373]

**19. DRAGAN, Dejan, KRAMBERGER, Tomaž.** Forecasting the container throughput in the Port of Koper using time series ARIMA model. V: IPAVEC, Vesna Mia (ur.), KRAMBERGER, Tomaž (ur.). *Pre-conference proceedings of the 11th International Conference on Logistics & Sustainable Transport 2014, Celje, Slovenia, 19-21 June 2014*. Celje: Faculty of Logistics. 2014, [12] str. [COBISS.SI-ID 512579133]

**20. DRAGAN, Dejan, TOPOLŠEK, Darja.** Introduction to structural equation modeling : review, methodology and practical applications. V: IPAVEC, Vesna Mia (ur.), KRAMBERGER, Tomaž (ur.). *Pre-conference proceedings of the 11th International Conference on Logistics & Sustainable Transport 2014, Celje, Slovenia, 19-21 June 2014*. Celje: Faculty of Logistics. 2014, [27] str. [COBISS.SI-ID 512579389]

**21. DRAGAN, Dejan, PRAH, Klemen, KRAMBERGER, Tomaž, FOŠNER, Maja**. Reduction of GHG emissions based on a heuristic optimization approach. V: DOLINOV, F. F. (ur.). *Logističeskie sistemy v global'noj èkonomike : materialy meždunarodnoj naučno-praktičeskoj konferencii (14-15 marta 2013 g., Krasnojarsk) v 2-h častjah. Čast' 1, Naučno-issledovatel'skij sektor = Logistics systems in global economy : proceedings of international scientific-practical conference (March 14-15, 2013, Krasnoyarsk) in 2 parts. Part 1, Science and research department*. Krasnojarsk: Sibirskij gosudarstvennyj aèrokosmičeskij universitet imeni akademika M. F. Rešetneva. cop. 2013, str. 7-21. [COBISS.SI-ID 512488765]

**22. GYÖRKÖŠ, Staša, DRAGAN, Dejan.** A stochastic continuous review model of inventory control and the case of real trade enterprise. V: RAMŠAK, Rok (ur.). *Book of proceedings : a collection of papers of The 1st International Logistics Symposium for Students 2010*. Celje: Faculty of logistics. 2010, str. 102-118, graf. prikazi. [COBISS.SI-ID 15349813]

**23. PRAH, Klemen, ŠTRUBELJ, Gregor, RUPNIK, Bojan, KRAMBERGER, Tomaž, DRAGAN, Dejan.** GIS pri študiju in raziskovalnem delu v logistiki. V: CIGLIČ, Rok (ur.), et al. *Digitalni podatki*, (GIS v Sloveniji, ISSN 1855-4954, 13). 1. izd. Ljubljana: Založba ZRC. 2016, str. 209-221, zvd. [COBISS.SI-ID 40216365]

**24. DRAGAN, Dejan, KRAMBERGER, Tomaž, TOPOLŠEK, Darja.** Efficiency and travel agencies : Bayesian structural equation model. V: KRAMBERGER, Tomaž (ur.), POTOČAN, Vojko (ur.), IPAVEC, Vesna Mia (ur.). *Sustainable logistics and strategic transportation planning*, (Advances in logistics, operations, and management science book series (Print), ISSN 2327-350X). Hershey: IGI Global. cop. 2016, str. 211-235, ilustr. http://www.igi-global.com/book/sustainable-logistics-strategic-transportation-planning/141939, doi: 10.4018/978-1-5225-0001-8.ch010. [COBISS.SI-ID 512762173]

**25. DRAGAN, Dejan, KRAMBERGER, Tomaž, PRAH, Klemen.** Transport optimization and estimation of reduced CO2 emissions. V: KRAMBERGER, Tomaž (ur.), POTOČAN, Vojko (ur.), IPAVEC, Vesna Mia (ur.). *Sustainable logistics and strategic transportation planning*, (Advances in logistics, operations, and management science book series (Print), ISSN 2327-350X). Hershey: IGI Global. cop. 2016, str. 405-436, ilustr. http://www.igi-global.com/book/sustainable-logistics-strategic-transportation-planning/141939, doi: 10.4018/978-1-5225-0001-8.ch019. [COBISS.SI-ID 512762429]

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