

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Ime predmeta: STOHAŠTIČNI PROCESI V LOGISTIKI
Course title: STOCHASTIC PROCESSES IN LOGISTICS

Študijski program in stopnja Study programme and cycle	Študijska smer Study option	Letnik Year of study	Semester Semester
LOGISTIKA SISTEMOV 2. stopnja		2.	3.
SYSTEM LOGISTICS 2 nd degree		2.	3.

**Vrsta predmeta (obvezni ali izbirni) /
Course type (compulsory or elective)**

IZBIRNI
ELECTIVE

Univerzitetna koda predmeta / University course code:

MAG

Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Klinične vaje Clinical training	Druge oblike študija Other forms of study	Samost. delo Individual work	ECTS
24 e-P 21 a-P		6 e-V 34 a-V			65	5

Nosilec predmeta / Course coordinator:

DEJAN DRAGAN

Jeziki /Languages:

Predavanja / Lectures: SLOVENSKI/SLOVENE
Vaje / Tutorial: SLOVENSKI/SLOVENE

Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti:

Ni pogojev.

Prerequisites for enrolling in the course or for performing study obligations:

None.

Vsebina (kratek pregled učnega načrta):

Teorija verjetnosti: Diskretne naključne spremenljivke in porazdelitve, Zvezne naključne spremenljivke in porazdelitve, Številске statistične karakteristike, Multivariantne porazdelitve, Pogojne in mejne porazdelitve, Funkcija največjega verjetja.

Stohastični procesi: Markovski procesi in markovske verige, Poissonovi procesi, Rojstno-smrtni procesi. Aplikacije v logističnih sistemih.

Uvod v analitično teorijo množične strežbe: Enokanalni strežni sistemi, Večkanalni strežni sistemi, Razlaga reševanja praktičnih in hipotetičnih primerov na podlagi realiziranih diplom.

Optimalno upravljanje zalog pri stohastičnem povpraševanju: Newsboy enoperiodični model,

Content (syllabus outline):

Probability Theory: Discrete random variables and distributions, Continuous random variables and distributions, Statistical characteristics, Multivariate distributions, Conditional and marginal distributions, The maximum likelihood function.

Stochastic processes : Markov processes and Markov chains, Poisson processes, Birth-death processes. Applications in logistics systems.

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.

Optimal inventory management for the case of stochastic demand: Newsboy one-period model,

<p>Zvezni (Q,s) model za zvezno pregledovanje stanja zalog, Periodični model za periodično pregledovanje stanja zalog. Razlaga reševanja praktičnih primerov na podlagi realiziranih diplom.</p>	<p>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.</p>
<p>Teorija regresije in napovedovanja v operacijskih raziskavah in ekonometriji: Poglobitev znanj iz področja regresijskih modelov in njihove uporabe v statistiki, pri napovedovanju, v operacijskih raziskavah in v ekonometriji.</p>	<p>The theory of regression and forecasting in operations research and econometrics: Advanced knowledge in the field of regression models and their application in statistics and forecasting, operations research and econometrics.</p>
<p>Modeliranje in napovedovanje časovnih vrst v logistiki in ekonometriji: 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.</p>	<p>Modeling and forecasting of time series in logistics and econometrics: 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.</p>
<p>Statistične analize v pomorski in pristaniški logistiki ter prometu.</p>	<p>Statistical analysis in the maritime and port logistics, in the transport, and in the traffic.</p>
<p>Reševanje problemov sledenja in navigacije s filtri.</p>	<p>Solving of the tracking and navigation problems by the means of filters.</p>
<p>Programska orodja: Scilab, Matlab in kloni.</p>	<p>Software tools: Scilab, Matlab and clones.</p>

Temeljni literatura in viri / Reading materials:

<p>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.</p> <p>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.</p>

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., & Sapro, 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:

Cilj tega predmeta je:

- nadgraditi pojme teorije stohastičnih procesov,
- naučiti se ocenjevati statistične pokazatelje stohastičnih procesov,
- pridobiti sposobnost interpretacije nedoločenih pojavov,
- usposobiti se za uporabo teoretičnega znanja pri obravnavi zahtevnejših stohastičnih procesov v logistiki.

Objectives and competences:

This course will help students:

- to upgrade the issues in the theory of stochastic processes,
- to gain a deeper understanding of estimation of statistical indicators in stochastic processes,
- to gain the ability to interpret uncertain events,
- to gain the ability to apply theoretical knowledge for the purpose of solving of more complicated stochastic problems in logistics.

Predvideni študijski rezultati:

Znanje in razumevanje:

- nadgraditi razumevanje postopkov in orodij za analizo in uporabo stohastičnih modelov,
- spoznati raziskovalno področje stohastičnih procesov in ga prepoznati kot morebitno polje bodočega znanstvenega dela,
- pridobiti poglobljeno razumevanje iz teorije stohastičnih procesov ter uporabe stohastičnih modelov,
- se usposobiti za samostojno znanstveno raziskovalno delo na tem področju,
- se usposobiti za predstavitev svojega raziskovalnega dela (članki, referati),
- spoznati uporabne vsebine in se naučiti systemskega razmišljanja, kako pristopiti k reševanju realnih problemov,
- pridobiti razumevanje teoretičnih ozadij, nujno potrebnih za interpretacijo dobljenih rezultatov

Intended learning outcomes:

Knowledge and Understanding:

- to enhance the understanding of procedures and tools for the construction of stochastic models,
- to get familiar with scientific field of stochastic processes and recognize it as a possible field of future scientific work,
- to get the ability to co-operate in solving more complicated stochastic problems in logistics,
- to qualify for independent research and scientific work in this field,
- to qualify for presentation of scientific work by the means of publishing (papers),
- to get familiar with useful contents and to gain the possibility of systematical thinking about solving of real problems,
- to gain the understanding of theoretical background, necessary for the interpretation of achieved results given by computer software and

<p>računalniških orodij in ocenitev kakovosti razvitih stohastičnih in statističnih modelov.</p> <p>Prenosljive/ključne spretnosti in drugi atributi: Zmožnost sodelovanja pri reševanju zahtevnejših problemov stohastične narave v logističnih okoljih. Obvladovanje znanstvenih podlag in praktičnih spretnosti za nadaljnji študij in delo v logističnih in nelogističnih podjetjih.</p>	<p>to verify the quality of developed stochastic and statistical models.</p> <p>Transferable/Key Skills and other attributes: 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.</p>
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Metode poučevanja in učenja:

<p>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).</p> <p>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 na videokonferenčni način ali s pomočjo posebej v ta namen didaktično pripravljenih e-gradiv v virtualnem elektronskem učnem okolju).</p>

Learning and teaching methods:

<p>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).</p> <p>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-tutorials may be given via video-conferencing or with the help of specially designed e-material in a virtual electronic learning environment).</p>

Načini ocenjevanja:	Delež (v %) / Share (in %)	Assessment methods:
<p>Opravljene obveznosti e-predavanj in e-vaj so pogoj za pristop k izpitu.</p> <ul style="list-style-type: none"> • Opravljen seminar. • Pisni izpit. • Ustni izpit. 	<p>30%</p> <p>40%</p> <p>30%</p>	<p>Successful completion of e-lectures and e-tutorials is a prerequisite for entering the exam.</p> <ul style="list-style-type: none"> • Coursework. • Written examination. • Oral examination.

Reference nosilca / Course coordinator's references:

<p>1. Marko INTIHAR, Tomaž KRAMBERGER, Dejan DRAGAN. Container Throughput Forecasting Using Dynamic Factor Analysis and ARIMAX Model. <i>Promet – Traffic&Transportation engineering</i>, ISSN 0353-5320. [Print ed.], 2017, vol. 29, no. 5, str. 529-542. [JCR, SNIP, WoS]. doi: 10.7307/ptt.v29i5.2334.</p> <p>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. <i>Logistics & sustainable transport</i>, ISSN 2232-4968. [Spletna izd.], May 2017, vol. 8, no. 1, str. 1-18, ilustr. https://doi.org/10.1515/ilst-2017-0001, doi: 10.1515/ilst-2017-0001. [COBISS.SI-ID 512846141]</p> <p>3. TOPOLŠEK, Darja, DRAGAN, Dejan. Integration of travel agencies with other supply chain members : impact on efficiency. <i>Logistics & sustainable transport</i>, ISSN 2232-4968. [Spletna izd.], Oct. 2016, vol. 7, no. 1, str. 1-17. https://www.degruyter.com/downloadpdf/j/ilst.2016.7.issue-1/ilst-2016-0001/ilst-2016-0001.xml, doi: 10.1515/ilst-2016-0001. [COBISS.SI-ID 512794173].</p> <p>4. TOPOLŠEK, Darja, DRAGAN, Dejan. Relationships between the motorcyclists' behavioural perception and their actual behaviour. <i>Transport</i>, ISSN 1648-3480. [Online ed.]. http://www.tandfonline.com/doi/abs/10.3846/16484142.2016.1141371,</p>

- doi: [10.3846/16484142.2016.1141371](https://doi.org/10.3846/16484142.2016.1141371). [COBISS.SI-ID [512755261](https://www.cobiss.si/record/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](https://doi.org/0.1515/jlst-2015-0007). [COBISS.SI-ID [512729661](https://www.cobiss.si/record/512729661)].
6. TOPOLŠEK, Darja, DRAGAN, Dejan. Behavioural comparison of drivers when 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](https://www.cobiss.si/record/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](https://doi.org/10.1680/tran.11.00053). [COBISS.SI-ID [512554557](https://www.cobiss.si/record/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](https://www.cobiss.si/record/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](https://www.cobiss.si/record/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](https://www.cobiss.si/record/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](https://doi.org/10.5545/sv-jme.2010.128). [COBISS.SI-ID [512232253](https://www.cobiss.si/record/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](https://www.cobiss.si/record/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](https://www.cobiss.si/record/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](https://www.cobiss.si/record/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](https://www.cobiss.si/record/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 aërokosmičeskij 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](#)]
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