

ACADEMIC CURRICULUM VITAE

(last updated 04.02.2020)

Name: CSABA CSISZÁR PhD

Position: associate professor

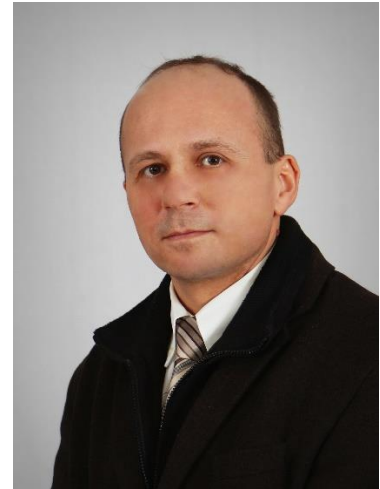
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Date and place of birth: Budapest, 1975

<http://www.kukg.bme.hu/index.php/en/department/staff/36-csaba-csiszar-phd>



Matriculation: Fazekas Mihály Fővárosi Gyakorló Gimnázium,
special mathematics course (1993)

Graduation: M.Sc. in Transportation, TU of Budapest, 1998

Scientific degree(s):

PhD., Budapest University of Technology and Economics, 2002

Languages: Russian, English, German, Hungarian (mother tongue)

Place of work, position:

Budapest University of Technology and Economics
Department of Transport Technology and Economics

- junior assistant professor 2001-2004
- senior assistant professor 2004-2010
- associate professor 2010-

Education Activity

A) Subjects

a/ BSc courses

Transport Information Systems I.-II. 2012 - (in English) 2013-
Transport Network Planning 2008-2012

b/ MSc courses

Transport Informatics 2010- (in English) 2016-
Passenger Transportation 2011- (in English) 2017-

c/ PhD courses

Transport Informatics 2009- (in English) 2016-
Passenger Transport Systems 2011- (in English) 2017-

d/ normal graduate courses

Works Organization 2001-2004

Transport Informatics 2001-2011

Transport Network Planning 2001-2011

Intelligent Transport Systems and Technology of Vehicle Systems 2002-2013

Passenger Transport Systems 2002-2010

B) Other education activities

BUTE Kálmán Kandó Doctoral School, Supervision of research of PhD students 2010-

number of PhD students: 11

Válóczy Dénes	2010-2013 (leaving certificate: 2013)
Esztergár-Kiss Domokos	2011-2014 (defense: 2016)
Sándor Zsolt	2012-2015 (defense: 2015)
Nagy Enikő	2013-2016 (defense: 2018)
Caesar Bálint	2014-2017 (leaving certificate: 2017)
Csonka Bálint	2015-2018 (defense: 2020)
Földes Dávid	2016-2019 (defense: 2019)
Azamat Zarkeshev	2016-2020 (defense expected: 2020)
He Yinying	2018-
Havas Márton	2019-
Nagy Simon	2020-

Supervision of work on diploma theses 2001-

Supervision of students' research activities (TDK) 2004-

number of (TDK) papers: 36

number of papers ranked I. on conference of the faculty: 10

number of papers ranked I. on national conference: 3

Research Activity

A) Research fields

Transport informatics

Passenger transport systems

Operation of electromobility systems

Autonomous vehicles in urban transportation

B) Most important research projects

1. Higher Education Excellence Program, Artificial Intelligence, Future Mobility research area (BME FIKP MI/FM) Electromobility research group leader 2018-
2. Electric Mobility Europe (EME), Electric travelling - platform to support the implementation of electromobility in Smart Cities based on ICT applications – research project 2018-2020
3. Charging infrastructure deployment concept - containing national database and uniform digital map – study (principal: e-Mobi Kft.) 2017
4. TÁMOP-4.2.1/B-09/1/KMR-2010-0002 Research University Program, Vehicle Engineering, Transportation, Logistics JKL-P4-T2 subproject: Interconnection of transportation modes with telematics tools
5. TÁMOP-4.2.2.C-11/1/KONV-2012-0012 „Smarter Transport” research program, P4-2 subproject: Forecasting of traffic flow parameters
6. KMR_12-1-2012-0126 cooperation with Libra Szoftver Zrt. in research+development project: BusEye – online personalized passenger information system

Public Activities

member of Hungarian Society for Transport Sciences 1998-
member of Public Body of Hungarian Academy of Sciences 2003-
permanent invited member of Hungarian Academy of Sciences (MTA) Committee of
Transport Sciences 2009-
member of Hungarian Academy of Sciences (MTA) Committee of Transport Sciences
2017-
member of the editorial board of Urban Transportation (Városi Közlekedés) scientific
journal 2010-2011
BME – KJK Chairman of Scientific Student Council of Faculty 2015-
Smart Cities Symposium, Prague member of scientific committee 2018-
European Control Conference 2019 reviewer

Scientific Publications (see also list of publications) – IF=Impact Factor

Number of scientific papers: 144

Paper with IF:	15
Paper without IF in English (published abroad):	12
Paper without IF in English (published in Hungary):	9
Paper without IF in Hungarian (published in Hungary):	45

Conference paper in English (min. 4 pages published in international conference proceedings): 25

Conference paper in Hungarian (min. 4 pages published in domestic conference proceedings): 38

Scientific Awards

1998 Diploma with Honours
1999 Pro Scientia gold medal
2008 Plaque of memory for work concerning students' research activities (TDK)
2015 Supervisor Pro Progressio award for work concerning students' research activities
(TDK)
2017 Master Teacher gold medal
2018 Hungarian Gold Cross of Merit
2020 Hungarian Association for Transport Sciences – Literary Award

Research Scholarship

2003-2006 Bolyai János Research Scholarship in theme „Application of integrated telematics systems for more efficient management of passenger transport flows” - excellent qualification

Teaching Staff Training - Guest Professor

1. Technical University of Dresden, Faculty of Transportation and Traffic Science.
ERASMUS teaching staff training – guest professor 04.06.2012-07.06.2012
2. Vienna University of Technology, Institute of Transportation, Research Center of
Transport Planning and Traffic Engineering.
ERASMUS teaching staff training – guest professor 21.01.2013-25.01.2013
3. West Pomeranian University of Technology and Economics, Szczecin.
ERASMUS teaching staff training – guest professor 09.10.2017-13.10.2017
4. University of Zagreb, Faculty of Transport and Traffic Sciences.
ERASMUS teaching staff training – guest professor 22.10.2018-26.10.2018
5. University of Krakow, Faculty of Transport and Traffic Sciences.
ERASMUS teaching staff training – guest professor 21.10.2019-25.10.2019

PhD dissertation

Model of Integrated Intelligent Passenger Information System
Technical University of Budapest, 2002

Books, Book chapters, Course books

1. Transport Informatics (co-authors: Munkácsiné Lengyel E., Tóth J., Juhász J.) 2004.*
2. Development of Railway Operation Systems in EU (author: Budapest University of Technology and Economics, Department of Transport Technology), 2004.*
3. ITS „Intelligent Transport Systems” (author: Budapest University of Technology and Economics, Department of Transport Technology), 2005.
4. Transport Informatics (co-author: Sándor Zs.) 2014.*
5. Passenger Transportation (co-authors: Kövesné Gilicze É., Debreczeni G.) 2015.*
6. Transportation Information Systems I. – practices in computer laboratory (co-authors: Caesar B., Csonka B., Földes D.) 2016.
7. Transportation Information Systems I. – practices in computer laboratory (co-authors: Csonka B., Földes D.) 2018. – electronic study-aid *
Akadémia Publisher, Budapest, ISBN 978 963 454 277 3
DOI: 10.1556/9789634542773 <https://mersz.hu/kiadvany/434/dokumentum/info>
8. Transportation Information Systems II. – practices in computer laboratory (co-authors: Csonka B., Földes D.) 2018. – electronic study-aid *
Akadémia Publisher, Budapest, ISBN 978 963 454 278 0
DOI: 10.1556/9789634542780 <https://mersz.hu/kiadvany/454/dokumentum/info>
9. Transportation Information Systems (co-authors: Csonka B., Földes D.) 2018. – printed study-aid *
Akadémia Publisher, Budapest, ISBN 978 963 454 305 3
DOI: 10.1556/9789634543053 <https://mersz.hu/kiadvany/435/dokumentum/info>
10. Innovative Passenger Transportation Systems (co-authors: Csonka B., Földes D.) 2018. – printed book
Akadémia Publisher, Budapest, ISBN 978 963 059 941 2
DOI: 10.1556/9789630599412 <https://mersz.hu/kiadvany/427/>
11. Reshaped Urban Mobility (társszerzők: Földes D., He Y.) 2019. – könyvfejezet in:
Urban Design, IntechOpen,
Edited by Dr. Amjad Zaki Almusaed and Associate Prof. Asaad Almsaad
ISBN: 978-1-83880-352-0 Print ISBN: 978-1-83880-351-3
DOI: 10.5772/intechopen.89211
<https://www.intechopen.com/online-first/reshaped-urban-mobility>

* in Hungarian

Student Research Activity (TDK)

1. Elaboration of Route Planner Method for Suburban Public Transportation.
Supervisors: Dr. Westsik György, Dr. Tóth János.
Paper ranked I. on conference of the Faculty of Transportation Engineering (1997).
2. Elaboration of Computerised Route Planner Application for Suburban Public Transportation.
Supervisor: Dr. Westsik György.
Paper ranked I. on conference of the Faculty of Transportation Engineering (1998),
Paper ranked I. on national conference (1999).

Publication list

<https://m2.mtmt.hu/gui2/?type=authors&mode=browse&sel=10011243&view=simpleList>

Most Important Publications

legend:

marked with dark grey background – in journal with Impact Factor (IF); (available in WoS)

marked with light grey background – (available in WoS)

47	Zarkeshev A. – Csiszár Cs.	Rescue Method Based on V2X Communication and Human Pose Estimation. Periodica Polytechnica Civil Engineering. Vol. 63. No. 4 (2019), pp. 1139-1146. DOI:10.3311/PPci.13861
46	Zarkeshev A. – Csiszár Cs.	Are People Ready to Entrust their Safety to an Autonomous Ambulance as an Alternative and more Sustainable Transportation Mode? Sustainability, 2019, 11(20), 5595; https://doi.org/10.3390/su11205595 , pp. 1-12
45	T. Skrúcaný - M. Kendra - O. Stopka - S. Milojevic - T. Figlus - Csiszár Cs.	Impact of the Electric Mobility Implementation on the Greenhouse Gases Production in Central European Countries. Sustainability, 2019, 11, 4948; https://doi.org/10.3390/su11184948 , pp. 1-15
44	Csiszár Cs. - Pauer G.	Concept of an Integrated Mobile Application Aiding Electromobility Transport Journal 2019 Volume 34 (2): 187-194. https://doi.org/10.3846/transport.2019.8629
43	Csiszár Cs.	Demand Calculation Method for Electric Vehicle Charging Station Locating and Deployment. Periodica Polytechnica Civil Engineering. Vol. 63. No. 1 (2019), pp. 255-265. https://doi.org/10.3311/PPci.13330
42	Skrúcaný T. - Figlus T. - Cupera J. - Abramovic B. – Csiszár Cs.	Influence of Vehicle Aerodynamical Devices on Fuel Consumption Evaluated Using Telematics Tools 8th International Scientific Conference, CMDTUR 2018. 04-05 October 2018. Žilina, Slovakia, pp. 384-392
41	Földes D. – Csiszár Cs. – Zarkeshev A.	User expectations towards mobility services based on autonomous vehicle 8th International Scientific Conference, CMDTUR 2018. 04-05 October 2018. Žilina, Slovakia, pp. 7-14
40	He Y. – Csiszár Cs.	Quality Assessment Method For Mobility-As-A-Service Based On Autonomous Vehicles International Conferences on Traffic and Transport Engineering, ICTTE2018, 27-28 September 2018. Belgrade, Serbia, pp. 901-910 http://ijtte.com/uploads/news_files/Proceedings%202018%20final.pdf
39	Csiszár Cs. – Földes D	Operational Model and Impacts of Mobility Service Based on Autonomous Vehicles International Conferences on Traffic and Transport Engineering, ICTTE2018, 27-28 September 2018. Belgrade, Serbia, pp. 893-900 http://ijtte.com/uploads/news_files/Proceedings%202018%20final.pdf
38	Csiszár Cs. - Csonka B. – Földes D. – Lovas T. – Wirth E.	Urban public charging station locating method for electric vehicles based on land use approach. Journal of Transport Geography, Vol. 74. 2019, January, 173-180; https://doi.org/10.1016/j.jtrangeo.2018.11.016
37	Földes D. – Csiszár Cs.	Framework for Planning the Mobility Service Based on Autonomous Vehicles. Smart Cities Symposium, 24-25 May 2018. Prague, Czech Republic, pp. 15-20 DOI: 10.1109/SCSP.2018.8402651, ISBN: 978-1-5386-5017-2 https://ieeexplore.ieee.org/document/8402651/
36	Csiszár Cs. - Földes D.	System Model for Autonomous Road Freight Transportation Journal Promet - Traffic & Transportation Vol.30, 2018, No.1, pp. 93-103; http://dx.doi.org/10.7307/ptt.v30i1.2566
35	Csonka B. – Csiszár Cs.	Integrated Information Service for Plug-In Electric Vehicle Users Including Smart Grid Functions Transport Journal 2019 Volume 34 (1): 135-145. https://doi.org/10.3846/transport.2019.8548
34	Csiszár Cs. – Zarkeshev A.	Demand-capacity coordination method in autonomous public transportation. EWGT 2017: 20th EURO Working Group on Transportation meeting, 4-6 September

		2017, Budapest, Hungary, Transportation Research Procedia 27 (2017) p. 784–790 DOI: 10.1016/j.trpro.2017.12.109
33	Csonka B. – Csiszár Cs.	Determination of Charging Infrastructure Locations for Electric Vehicles. EWGT 2017: 20th EURO Working Group on Transportation meeting, 4-6 September 2017, Budapest, Hungary, Transportation Research Procedia 27 (2017) p. 768–775 DOI: 10.1016/j.trpro.2017.12.115
32	Földes D. – Csiszár Cs.	Assessment Methods for Individual Value of Location. EWGT 2017: 20th EURO Working Group on Transportation meeting, 4-6 September 2017, Budapest, Hungary, Transportation Research Procedia 27 (2017) 841–848, DOI: 10.1016/j.trpro.2017.12.036
31	Földes D. – Csiszár Cs.	Model of Information System for Combined Ride-sourcing Service. Smart Cities Symposium, 25-26 May 2017. Prague, Czech Republic, pp. 1-6 DOI: 10.1109/SCSP.2017.7973841, ISBN: 978-1-5386-3825-5 http://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=7973841
30	Földes D. – Csiszár Cs.	Passenger Handling Functions in Autonomous Public Transportation. International Conferences on Traffic and Transport Engineering, ICTTE, 24-25 November 2016. Belgrade, Serbia, pp. 533-540 http://ijtte.com/uploads/news_files/ICTTE%20Belgrade%202016_Proceedings.pdf WOS: 000391016300075, ISBN 9788691615338
29	Csiszár Cs. - Nagy E.	Model of an integrated air passenger information system and its adaptation to Budapest Airport, Journal of Air Transport Management 64 PA (2017) pp. 33-41., JATM1473 http://dx.doi.org/10.1016/j.jairtraman.2017.06.022
28	Nagy E. - Csiszár Cs.	Revealing Influencing Factors of Check-in Time in Air Transportation. Acta Polytechnica Hungarica 14:(4) pp. 225-243. (2017) DOI: 10.12700/APH.14.4.2017.4.13 http://www.uni-obuda.hu/journal/Nagy_Csiszar_75.pdf
27	Szigeti Sz. - Csiszár Cs. – Földes D.	Information Management of Demand-Responsive Mobility Service Based on Autonomous Vehicles. Procedia Engineering 187 pp. 483-491. (2017) http://dx.doi.org/10.1016/j.proeng.2017.04.404
26	Nagy E. - Csiszár Cs.	Airport Smartness Index – Evaluation Method of Airport Information Services. Austrian Journal of Transport Sciences (Österreichische Zeitschrift für Verkehrswissenschaft – ÖZV) 2016. 63(4): 25-30. http://www.oevg.at/publikationen/oezv/
25	Földes D. – Csiszár Cs.	Conception of Future Integrated Smart Mobility. Smart Cities Symposium, 26-27 May 2016. Prague, Czech Republic, pp. 29-35 DOI:10.1109/SCSP.2016.7501022, ISBN: 978-1-5090-1116-2 http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=7501022
24	Földes D. – Csiszár Cs.	Personalised Information Services for Bikers. International Journal of Applied Management Science, Special Issue on “Applied Logistics Management” 2018 Vol. 10 No. 1 pp 3-25, DOI: 10.1504/IJAMS.2018.10010961
23	Torok A. – Fedorko G. – Molnar V. – Husaková N. – Csiszár Cs.	How to Choose and When to Start Best ITS Projects That Enhance Logistic Performance? Periodica Polytechnica Transportation Engineering. Vol.45. No. 1. (2017) pp. 8-11. (ISSN 0303-7800) (ISSN 1587-3811) DOI: 10.3311/PPtr.9222 http://pp.bme.hu/tr/article/view/9222/7176
22	Esztergár-Kiss D. - Csiszár Cs.	Multicriteria Analysis of Hungarian Journey Planners Periodica Polytechnica Transportation Engineering. Vol. 44. No. 2. (2016), pp. 97-104. (ISSN 0303-7800) (ISSN 1587-3811) DOI: 10.3311/PPtr.8570) http://pp.bme.hu/tr/article/view/8570/6977
21	Csonka B. - Csiszár Cs.	Service Quality Analysis and Assessment Method for European Carsharing Systems Periodica Polytechnica Transportation Engineering. Vol. 44. No. 2. (2016), pp. 80-88. (ISSN 0303-7800) (ISSN 1587-3811) DOI: 10.3311/PPtr.8559 http://pp.bme.hu/tr/article/view/8559/6976
20	Csiszár Cs. – Sándor Zs.	Method for Analysis and Prediction of Dwell Times at Stops in Local Bus Transportation Transport Journal 2017 Volume 32 (3): 302-313 DOI: 10.3846/16484142.2016.1190402; ISSN 1648-4142 / eISSN 1648-3480 http://www.tandfonline.com/doi/full/10.3846/16484142.2016.1190402
19	Csiszár Cs. – Földes D.	Advanced Information Services for Cognitive Behaviour of Traveller. 6th IEEE Conference on Cognitive Infocommunications Győr, Hungary, 19-21 October 2015 Conference proceedings. pp. 133-138. DOI:10.1109/CogInfoCom.2015.7390578 http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=7390578
18	Cserhádi B. – Csiszár Cs.	Parking Management System with Dynamic Pricing and Personalized Assistant Application. 22nd ITS World Congress Bordeaux, France, 5-9 October 2015. Conference proceedings. Paper ID: ITS-2151 www.itsworldcongress.com

17	Csiszár Cs. – Földes D.	Analysis and Modelling Methods of Urban Integrated Information System of Transportation. Smart Cities Symposium, 24-25 June 2015. Prague, Czech Republic, pp. 1-10 DOI:10.1109/SCSP.2015.7181574, ISBN: 978-1-4673-6727-1 http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=7181574
16	Sándor Zs. – Csiszár Cs.	Modelling and Analysis Methods of Integrated Information Systems of Transportation. 4th International Conference on Models and Technologies for Intelligent Transportation Systems (MT-ITS 2015), 3-5 June 2015, Budapest, Hungary. pp. 348-355. DOI:10.1109/MTITS.2015.7223278, ISBN: 978-9-6331-3140-4, 978-963-313-142-8 http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=7223278
15	Karádi D. – Nagy E. – Csiszár Cs.	Integrated Information Application on Mobile Devices for Air Passengers. 4th International Conference on Models and Technologies for Intelligent Transportation Systems (MT-ITS 2015), 3-5 June 2015, Budapest, Hungary. pp. 304-311. DOI:10.1109/MTITS.2015.7223272, ISBN: 978-9-6331-3140-4, 978-963-313-142-8 http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=7223272
14	Földes D. – Csiszár Cs.	Smart Traveller of Future: Method for Personalisation of Routes. Austrian Journal of Transport Sciences (Österreichische Zeitschrift für Verkehrswissenschaft; ÖZV) 2015. 62(4): 11-18. http://www.oevg.at/publikationen/oezv/
13	Cserhádi B. – Csiszár Cs.	Parking Management System with Dynamic Pricing and Personalized Assistant Application. Austrian Journal of Transport Sciences (Österreichische Zeitschrift für Verkehrswissenschaft – ÖZV) 2015. 62(3): 37-45. http://www.oevg.at/publikationen/oezv/
12	Csonka B. – Csiszár Cs.	The Future of Car Usage: Quality Analysis and Assessment Method for Carsharing. Austrian Journal of Transport Sciences (Österreichische Zeitschrift für Verkehrswissenschaft; ÖZV) 2016. 63(1-2): 13-23. http://www.oevg.at/publikationen/oezv/
11	Földes D. – Csiszár Cs.	Route Plan Evaluation Method for Personalized Passenger Information Service Transport 2015 Volume 30 (3): 273-285 (Special Issue on Smart and Sustainable Transport) DOI: 10.3846/16484142.2015.1086889 ISSN 1648-4142 / eISSN 1648-3480 http://www.tandfonline.com/doi/abs/10.3846/16484142.2015.1086889
10	Cserhádi B. – Csiszár Cs.	Conception of Personalized Parking Assistant Application Periodica Polytechnica Civil Engineering Vol. 60. No. 2 (2016), pp. 181-188 (ISSN 1587-3773) DOI:10.3311/PPci.7679 http://www.pp.bme.hu/ci/article/view/7679
9	Sándor Zs. – Csiszár Cs.	Role of Integrated Parking Information System in Traffic Management Periodica Polytechnica Civil Engineering. Vol.59. No. 3. (2015), pp. 327-336. (ISSN 1587-3773) DOI:10.3311/PPci.7361 http://www.pp.bme.hu/ci/article/view/7361
8	Nagy E. - Csiszár Cs.	Analysis of Delay Causes in Railway Passenger Transportation Periodica Polytechnica Transportation Engineering. Vol.43. No. 2. pp. 73-80. Budapest, 2015. (ISSN 0303-7800) (ISSN 1587-3811) DOI: 10.3311/PPtr.7539 http://www.pp.bme.hu/tr/article/view/7539/6752
7	Esztergár-Kiss D. - Csiszár Cs.	Evaluation of Multimodal Journey Planners and Definition of Service Levels International Journal of Intelligent Transportation Systems Research; Volume 13, Issue 3 (September 2015) pp. 154-165. DOI 10.1007/s13177-014-0093-0 http://link.springer.com/article/10.1007/s13177-014-0093-0
6	Nagy E. - Csiszár Cs.	Research on Automation of Operative Scheduling in Urban Public Transportation Acta Technica Jaurinensis 'Series Transitus' Vol.6. No. 3. pp. 94-109. Győr, 2013. (ISSN 1789-6932) http://acta.sze.hu/index.php/acta/article/view/229
5	Sándor Zs. – Csiszár Cs.	Development Stages of Intelligent Parking Information Systems for Trucks Acta Polytechnica Hungarica 10:(4) pp. 161-174. Paper 42. (2013) DOI: 10.12700/APH.10.04.2013.4.10 http://www.uni-obuda.hu/journal/Sandor_Csiszar_42.pdf
4	Esztergár-Kiss D. - Kaderják P. – Csiszár Cs.	Elaboration of a Method's Theory regarding the Establishment and Revision of Bus Lanes Acta Technica Jaurinensis Vol.5. No. 3. pp. 271-282. Győr, 2012. (ISSN 1789-6932) http://acta.sze.hu/index.php/acta/article/view/63
3	Soltész T. – Kózel M. – Csiszár Cs. – Centgráf T. – Benyó B.	Information System for Road Infrastructure Booking Periodica Polytechnica Transportation Engineering. Vol.39. No. 2. pp. 55-62. Budapest, 2011. (ISSN 0303-7800) (ISSN 1587-3811) DOI: 10.3311/pp.tr.2011-2.02 http://www.pp.bme.hu/tr/article/view/1825

2	Csiszár Cs.	Model of Integrated Intelligent Passenger Information Systems Periodica Polytechnica Transportation Engineering. Vol.31. No. 1-2. pp. 17-44. Budapest, 2003. (ISSN 0303-7800) (ISSN 1587-3811) DOI: 10.3311/pp.tr.2003-1-2.02 http://www.pp.bme.hu/tr/article/view/1935
1	Csiszár Cs. – Westsik Gy.	Modelling of Computer Integrated Transportation Periodica Polytechnica Transportation Engineering. Vol.27. No. 1-2. pp. 43-59. Budapest, 1999. (ISSN 0303-7800) (ISSN 1587-3811) DOI: 10.3311/pp.tr.1999-1-2.04 http://www.pp.bme.hu/tr/article/view/1976