

Lista de lucrări în domeniul de știință definit de disciplinele din postul scos la concurs

NUMELE ȘI PRENUMELE: Dr. Székely Sándor Endre

I. LISTA PUBLICATIILOR RELEVANTE

- 1) [J-6] A. El Adnani, S. Székely: Value based model for optimizing broadband access networks - simulation model for triple play solution, Journal of A.M.S.E., Advances in Modelling, Series D, Computer Science and Statistics, Vol. 15, Issue 1, 2010, pp. 1-10, <http://www.amse-modeling.com>
- 2) [J-5] S. Székely, T. Szász, Z. Szappanyos, Zs. Tófalvi: Challenges in a Web-enhanced Personalised IPTV Service, Acta Universitatis Sapientiae Electrical and Mechanical Engineering, No.1, 2009, pp. 143-154, [cited by 1](#)
- 3) [J-4] S. Székely, G. Szűcs, Cs. Simon, I. Moldován, S. Molnár: On the Impact of Link/Node Failures and Network Applications on the Load and Call Processing Times in ATM Networks, Periodica Polytechnica Electrical Engineering, Journal of the Budapest University of Technology and Economics, Vol.46, No.1-2, 2002, pp. 99-122,, [cited by 1](#)
- 4) [C-11] S. Székely, Sz.M. Kis: Benchmarking Symmetrical DSL Modems with Different Protocol Stacks, 10th IEEE Symposium on Computers and Communications, ISCC'05, Murcia, Spain, 27-30 June 2005, avail. online in IEEE DL, www.ieee.org
- 5) [C-10] S. Székely: Signalling Performance Evaluation of Large ATM Networks Based on Performance Measurements of Isolated Switches, 7th IEEE Symposium on Computers and Communications, ISCC'02, Taormina, Italy, 27-30 July 2002, pp.670-675, avail. online in IEEE DL, www.ieee.org , [cited by 2](#)
- 6) [C-7] I. Szabó, S. Székely, I. Moldován: Performance Optimisation of AAL2 Signalling for Supporting Soft Handoffs in UMTS Terrestrial Radio Access Networks, Proc. of the 5th IEEE Symposium on Computers and Communications, ISCC'00, Juan-les-Pins, France, 4-6 July 2000, pp.46-52, available online in the IEEE Digital Library, www.ieee.org , [cited by 5](#)
- 7) [C-5] S. Székely, Cs. Simon, G. Szűcs: Performance Testing on Switched Virtual Connections in ATM Networks, Proc. of the 6th IFIP Workshop on Performance Modelling and Evaluation of ATM Networks, PMEAN'98 Ilkley, U.K., 20-22 July 1998, pp. 102/1-10, [cited by 1](#)
- 8) [C-4] S. Székely, I. Moldován, Cs. Simon: Overload Generated by Signalling Message Flows in ATM Networks, IFIP TC6 WG6.3 Conference "Performance of Information and Communications Systems", PICS'98, Chapman&Hall Publisher (eds. A. Nilsson, U. Körner), Lund, Sweden, 25-28 May 1998, pp. 51-64, available at DBLP Uni-Trier, [cited by 4](#)
- 9) [C-2] S. Székely, G. Fodor, S. Blaabjerg: Call Queueing: The Design and Performance Analysis of a New ATM Signalling Functionality, Proc. of the IEEE Workshop, ConTEL B&MW, Zagreb, Croatia, 11-12 November 1996, pp.99-113, [cited by 2](#)
- 10) [C-1] A. Faragó, S. Blaabjerg, W. Holender, B. Stavenow, T. Henk, L. Ast, S. Székely: Enhancing ATM Network Performance by Optimizing the Virtual Network Configuration, International Conference on Data Communications and their Performance, Chapman&Hall Publisher (eds. R. Onvural, H. Perros), Istanbul, Turkey, 23-26 October 1995, pp. 401-414, available at DBLP Uni-Trier, [cited by 4](#)

II. LISTA COMPLETĂ DE PUBLICATII, CREATII, INVENTII

A. Teza de doctorat.

Titlul:

Evaluarea performanțelor, modelarea și optimizarea prelucrării apelurilor în rețelele de telecomunicații de bandă largă

Conducătorii tezei:

Sándor Molnár, Ph.D., Universitatea de Tehnologie și Economie din Budapesta

Béla Frajka, Ph.D., Universitatea de Tehnologie și Economie din Budapesta

Oponenți:

István Kerekes, Ph.D., Ericsson AB, Ungaria

József Harangozó, Ph.D., Universitatea de Tehnologie și Economie din Budapesta

Denumirea exactă a instituției unde s-a realizat teza:

Universitatea de Tehnologie și Economie din Budapesta

Departamentul de Telecomunicații Informatică și Mass-media

Calificativul obținut: "cum laude"

Datele de identificare a publicației: Diploma No.1519-PhD

<http://www.doktori.hu/index.php?menuid=193&vid=8450&lang=EN>

B. Cărți publicate

B1. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate la edituri recunoscute în străinătate.

--- NU ---

B2. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCSIS.

--- NU ---

B3. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate la alte edituri sau pe plan local.

--- NU ---

B4. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

--- NU ---

B5. Capitole de cărți publicate în străinătate

--- NU ---

B6. Capitole de cărți publicate în țară

--- NU ---

C. Lucrări științifice publicate

C1. Lucrări științifice publicate în reviste cotate ISI

--- NU am acces la data de baze ISI, astfel nu pot preciza daca este cazul sau nu!!! ---

C2. Lucrări științifice publicate în reviste indexate în baze de date internaționale (indicați și baza de date).

- [J-6] A. El Adnani, S. Székely: Value based model for optimizing broadband access networks - simulation model for triple play solution, Journal of A.M.S.E., Advances in Modelling, Series D, Computer Science and Statistics, Vol. 15, Issue 1, 2010, pp. 1-10,
<http://www.amse-modeling.com>
- [J-4] S. Székely, G. Szűcs, Cs. Simon, I. Moldován, S. Molnár: On the Impact of Link/Node Failures and Network Applications on the Load and Call Processing Times in ATM Networks, Periodica Polytechnica Electrical Engineering, Journal of the Budapest University of Technology and Economics, Vol.46, No.1-2, 2002, pp. 99-122,
http://www.pp.bme.hu/ee/2002_1/pdf/ee2002_1_06.pdf, (full paper download in PDF)
<http://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.10.5648> (Indexed by citeSeerX)
http://www.researchgate.net/publication/233812525_On_the_impact_of_linknode_failures_and_network_applications_on_the_load_and_call_processing_times_in_ATM_networks (Indexed by ResearchGate)
<http://wenku.baidu.com/view/378aaa3b376baf1ffc4fad4f.html> ((full paper download on Chinese google site)
- [J-2] I. Cselényi, P. Haraszti, S. Székely: The First Hungarian ATM Pilot Network, Selected Papers from the Hungarian Telecommunication Periodical (in English), 1997, pp. 6-10,
<http://130.203.133.150/showciting.jsessionid=D0B76741C8C24E477A7FC62E7BDE3836?cid=5383698>
 (Indexed by citeSeerX)

C3. Lucrări științifice publicate în reviste din străinătate (altele decât cele menționate anterior).

- [H-4] Székely S., Kis Sz. M.: Adatátviteli teljesítményvizsgálat szimmetrikus DSL berendezéseken, Híradástechnika, Vol. LIX, szeptember 2004, pp. 48-57 (in Hungarian)
- [H-3] Szűcs G., Székely S.: Hívásszintű teljesítmény-mérések ATM hálózatokban, Magyar Távközlés, 99/5, május 1999, pp. 3-7 (in Hungarian)
- [H-2] Székely S., Arató A.: Videókonferencia alkalmazások ATM hálózaton, Magyar Távközlés, 96/6, június 1996, pp. 6-10 (in Hungarian)
- [H-1] Székely S., Szarkowicz K.: Bepillantás az ATM jelzésekbe, Magyar Távközlés, 95/5, május 1995, pp. 27-30 (in Hungarian)

C4. Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS (altele decât cele din baze de date internaționale).

- [J-5] S. Székely, T. Szász, Z. Szappanyos, Zs. Tófalvi: Challenges in a Web-enhanced Personalised IPTV Service, Acta Universitatis Sapientiae, Electrical and Mechanical Engineering, No.1, 2009, pp. 143-154
- [J-3] O. Pop, S. Székely, M. Nafornita: Performance Evaluation of Forward Error Correction Schemes in ATM Networks, Buletin Stiintific of T.U. Timisoara, 42 (56), 1997, (in Romanian), pp. 89-98
- [J-1] M. Ottesteanu, S. Székely: User-Network Interfacing Problems in ATM Networks, Buletin Stiintific of T.U. Timisoara, Special Edition, 40 (54), 1995, (in English), pp. 153-160

C5. Lucrări științifice publicate în reviste, altele decât cele menționate anterior

C6. Lucrări științifice publicate în volumele manifestărilor științifice

- [C-12] Sz.M. Kis, J. Biro, S. Székely: Estimation of Multiplexing Gain on Small Business VoIP Networks, 12th IEEE Symposium on Computers and Communications, ISCC'07, Aveiro, Portugal, 1-4 July 2007, pp. 913-919, avail. online in IEEE DL, www.ieee.org
- [C-11] S. Székely, Sz.M. Kis: Benchmarking Symmetrical DSL Modems with Different Protocol Stacks, 10th IEEE Symposium on Computers and Communications, ISCC'05, Murcia, Spain, 27-30 June 2005, avail. online in IEEE DL, www.ieee.org
- [C-10] S. Székely: Signalling Performance Evaluation of Large ATM Networks Based on Performance Measurements of Isolated Switches, 7th IEEE Symposium on Computers and Communications, ISCC'02,

- Taormina, Italy, 27-30 July 2002, pp.670-675, avail. online in IEEE DL, www.ieee.org
- [C-9] S. Székely, G. Szűcs, Cs. Simon: Modelling of Call Processing in ATM Switches Based on Performance Measurements, Proc. of the IEEE International Conference on Telecommunications, ICT'01, Bucharest, Romania, 4-7 July 2001, pp. 327-335
- [C-8] Cs. Simon, S. Székely, K. Németh: Point-to-Multipoint ATM Signalling Performance Measurements, Proc. of the 7th IFIP Workshop on Performance Modelling and Evaluation of ATM/IP Networks, PMEAN'00 Ilkley, U.K., 16-19 July 2000, pp. W17/1-10
- [C-7] I. Szabó, S. Székely, I. Moldován: Performance Optimisation of AAL2 Signalling for Supporting Soft Handoffs in UMTS Terrestrial Radio Access Networks, Proc. of the 5th IEEE Symposium on Computers and Communications, ISCC'00, Juan-les-Pins, France, 4-6 July 2000, pp.46-52, available online in the IEEE Digital Library, www.ieee.org
- [C-6] S. Székely, G. Szűcs: Performance Measures of Call Establishment in ATM Networks, Proc. of the ATMTU'99 Int. Symposium, Kosice, Slovakia, 17-19 February 1999, pp.116-121
- [C-5] S. Székely, Cs. Simon, G. Szűcs: Performance Testing on Switched Virtual Connections in ATM Networks, Proc. of the 6th IFIP Workshop on Performance Modelling and Evaluation of ATM Networks, PMEAN'98 Ilkley, U.K., 20-22 July 1998, pp. 102/1-10
- [C-4] S. Székely, I. Moldován, Cs. Simon: Overload Generated by Signalling Message Flows in ATM Networks, IFIP TC6 WG6.3 Conference "Performance of Information and Communications Systems", PICS'98, Chapman&Hall Publisher (eds. A. Nilsson, U. Körner), Lund, Sweden, 25-28 May 1998, pp. 51-64, available at DBLP Uni-Trier and at http://cgi.di.uoa.gr/~istavrak/ifipWG6_3/pcn.html
<http://www.booktopia.com.au/performance-of-information-and-communication-systems-ulf-korner/prod9780412837302.html;jsessionid=5BE75A70757F7EAE4BFA845084D6A068> (Full Book)
<http://www.kyobobook.co.kr/product/detailViewEng.laf?mallGb=Eng&ejkGb=BNT&barcode=9780412837302> (Full Book, Korean page)
- [C-3] S. Székely: On Bandwidth Allocation Policies in ATM Network using Call Queueing, Proc. of the 5th IFIP Workshop on Performance Modelling and Evaluation of ATM Networks, PMEAN'97 Ilkley, U.K., 21-23 July 1997, pp. 46/1-10
- [C-2] S. Székely, G. Fodor, S. Blaabjerg: Call Queueing: The Design and Performance Analysis of a New ATM Signalling Functionality, Proc. of the IEEE Workshop, ConTEL B&MW, Zagreb, Croatia, 11-12 November 1996, pp.99-113
- [C-1] A. Faragó, S. Blaabjerg, W. Holender, B. Stavenow, T. Henk, L. Ast, S. Székely: Enhancing ATM Network Performance by Optimizing the Virtual Network Configuration, International Conference on Data Communications and their Performance, Chapman&Hall Publisher (eds. R. Onvural, H. Perros), Istanbul, Turkey, 23-26 October 1995, pp. 401-414, available at DBLP Uni-Trier and at http://www.researchgate.net/publication/221091935_Enhancing_ATM_Network_Performance_by_Optimizing_the_Virtual_Network_Configuration (Indexed by ResearchGate)

D. Traduceri de cărți, capitole de cărți, alte lucrări științifice

--- NU ---

E. Editare, coordonare de volume

--- NU ---

F. Brevete de invenții și alte titluri de proprietate

- [T-2] S. Székely: Schaltungsanordnung und Verfahren zur Fehleranalyse (*Eine neue Methode für System Tester zur Fehlersuche: Repräsentierung von Signalisierungsnachrichten in einem Plot-diagram*), # 1: 10.2004.002.452.9, Germany, patent registered;
<http://worldwide.espacenet.com/publicationDetails/biblio?DB=EPODOC&II=0&ND=3&adjacent=true&locale=en&EP&FT=D&CC=DE&NR=102004002452A1&KC=A1>

2: US Patent Application No: 2005/0195,794 Switching device and method for error analysis,
2005-P00559US USA, patent registered;

<http://www.patentbuddy.com/Patent/20050195794>

G. Contracte de cercetare (menționați calitatea de director sau membru)

--- NU ---

H. Creația artistică

H1 Participări la manifestații artistice internaționale

H2. Participări la manifestații artistice naționale

H3. Expoziții, filme, spectacole, concerte, discuri de autor, opere internaționale

H4. Expoziții, filme, spectacole, concerte, discuri de autor, opere naționale

H5. Produse cu drept de proprietate intelectuală în domeniul artistic

III. RECUNOASTEREA

I. Premii, distincții.

--- NU ---

J. Citări

[J-5] S. Székely, T. Szász, Z. Szappanyos, Zs. Tófalvi: Challenges in a Web-enhanced Personalised IPTV Service, Acta Universitatis Sapientiae Electrical and Mechanical Engineering, No.1, 2009, pp. 143-154, [cited by 1](#)

[R-20] R. Musvibe: COIN: A Customisable, Incentive Driven Video on Demand Framework for Low-Cost IPTV Services, M.Sc. thesis, University of Rhodes, Grahamstown, South Africa, March 2012, cited [J-5], <http://eprints.ru.ac.za/3041/1/MUSVIBE-MSc-TR12-72.pdf>,

[C-10] S. Székely: Signalling Performance Evaluation of Large ATM Networks Based on Performance Measurements of Isolated Switches, 7th IEEE Symposium on Computers and Communications, ISCC'02, Taormina, Italy, 27-30 July 2002, pp.670-675, *avail. online in IEEE DL, www.ieee.org*, [cited by 2](#)

[R-19] S. Srivastava: Redundant Picture Based Error Resiliency Technique for H.264 SVC Bitstream, M.Sc. thesis, San Diego State University, U.S.A., Fall 2010, cited [C-10], http://sdsu-dspace.calstate.edu/bitstream/handle/10211.10/604/Srivastava_Shishir.pdf?sequence=1.

[R-18] Der-Fu Tao: PIPORS: A Parallel Input Parallel Output Register Switching System, Ph.D. Dissertation, Department of Computer Science and Engineering Tatung University, Taiwan, June 2006, cited [C-10], http://ethesys.library.ttu.edu.tw/ETD-db/ETD-search/view_etd?URN=etd-0622106-155205

[J-4] S. Székely, G. Szűcs, Cs. Simon, I. Moldován, S. Molnár: On the Impact of Link/Node Failures and Network Applications on the Load and Call Processing Times in ATM Networks, Periodica Polytechnica Electrical Engineering, Journal of the Budapest University of Technology and Economics, Vol.46, No.1-2, 2002, pp. 99-122,, [cited by 1](#)

[R-17] G. Fehér: Resource Control in IP Networks, Ph.D. dissertation, Budapest University of Technology and Economics, April 2004, cited [J-4], http://www.omikk.bme.hu/collections/phd/Villamosmemoki_es_Informatikai_Kar/2004/Feher_Gabor/tezis_hun.PDF

[C-7] I. Szabó, S. Székely, I. Moldován: Performance Optimisation of AAL2 Signalling for Supporting Soft Handoffs in UMTS Terrestrial Radio Access Networks, Proc. of the 5th IEEE Symposium on Computers and Communications, ISCC'00, Juan-les-Pins, France, 4-6 July 2000, pp.46-52, *available online in the IEEE*

Digital Library, www.ieee.org, **cited by 5**

[R-16] S. Waller: New AAL2 signalling protocol to support the UMTS Terrestrial Radio Access Network, M.Sc. thesis, University of Cape Town, 2003, <http://crq.ee.uct.ac.za/progress.html>, cited [C-7],

[R-15] C. Voo: Management of low and variable bit rate ATM Adaptation Layer Type 2 traffic, University of Western Australia, 2003, cited [C-7]

[R-14] A. v. Zyl, N. Ventura: AAL2 Signalling Framework to Support a Gigabit AAL2 Switching Node, SATNAC Conference, September 2002, <http://satnac.org.za/proceedings/2002/core2/Van%20Zyl%20-%20461.pdf>, cited [C-7]

[R-13] S. Waller, X. Fomana, N. Ventura: AAL2 Signalling to support UMTS Terrestrial Radio Access Networks, SATNAC Conference, September 2002, cited [C-7],

http://pdf.aminer.org/000/339/268/performance_study_of_aal_protocol_for_low_bit_rate_multimedia.pdf

[R-12]* I. Szabo: Performance evaluation of a new end-to-end measurement based call admission control scheme for supporting IP telephony, International Symposium on Performance Evaluation of Computer and Telecommunication Systems, 2001, cited [C-7]

- [C-5] S. Székely, Cs. Simon, G. Szűcs: Performance Testing on Switched Virtual Connections in ATM Networks, Proc. of the 6th IFIP Workshop on Performance Modelling and Evaluation of ATM Networks, PMEAN'98 Ilkley, U.K., 20-22 July 1998, pp. 102/1-10, **cited by 1**

[R-8] A. Schwarz: Modellierung und Bewertung von Verfahren zur Last- und Leistungsregelung in Steuereinheiten von B-ISDN/ATM Vermittlungssystemen, Ph.D. dissertation, University of Stuttgart, LDB #33612, 2000, *available on request*, cited [C-4], [C-5]

- [C-4] S. Székely, I. Moldován, Cs. Simon: Overload Generated by Signalling Message Flows in ATM Networks, IFIP TC6 WG6.3 Conference "Performance of Information and Communications Systems", PICS'98, Chapman&Hall Publisher (eds. A. Nilsson, U. Körner), Lund, Sweden, 25-28 May 1998, pp. 51-64, *available at DBLP Uni-Trier*, **cited by 4**

[R-11]* C. Simon, A. Török: ATM security with firewalls, Fifth IEEE Symposium on Computers and Communications, 2000, pp. 186-191, cited [C-4],

http://ieeexplore.ieee.org/xpl/login.jsp?tp=&number=860637&url=http%3A%2F%2Fieeexplore.ieee.org%2Fxppls%2Fabs_all.jsp%3Famumber%3D860637

[R-10]* A. Török, C. Simon, M. Otesteanu: ATM Security Issues, Buletinul Stiintific al Universitatii "Politehnica" din Timisoara, Transactions on Electronics and Communications, Tom 45(59), Fascicola 1, 2000, <http://152.66.244.189/~simon/BulTimis2K.pdf>, cited [C-4]

[R-9]* A. Török, C. Simon, M. Otesteanu: Extensions to an ATM Security Method, IEEE SoftCOM, 2000, <http://152.66.244.189/~simon/SoftCom2K.pdf>, cited [C-4]

[R-8] A. Schwarz: Modellierung und Bewertung von Verfahren zur Last- und Leistungsregelung in Steuereinheiten von B-ISDN/ATM Vermittlungssystemen, Ph.D. dissertation, University of Stuttgart, LDB #33612, 2000, *available on request*, cited [C-4], [C-5]

- [C-2] S. Székely, G. Fodor, S. Blaabjerg: Call Queueing: The Design and Performance Analysis of a New ATM Signalling Functionality, Proc. of the IEEE Workshop, ConTEL B&MW, Zagreb, Croatia, 11-12 November 1996, pp.99-113, **cited by 2**

[R-5] N. Björkman, I. Cselényi, J. Eldin, C. Gisgård, A. Latour-Henner, T. Lundberg, S. Ösund (Telia AB): IMPROVEMENTS IN, OR RELATING TO, TELESERVICE MANAGEMENT SYSTEMS, European Patent EP1108334, Filing date: 08/24/1999, <http://www.freepatentsonline.com/EP1108334.html>, cited [C-2]

[R-4] I. Cselényi, R. Szabó, I. Szabó, A.L.-Henner, N. Björkman: Experimental Platform for Telecommunication Resource Management, Computer Communications, Vol. 21, pp.1624-1640, 1998, <http://qosip.ttt.bme.hu/papers/local/cselenyi98compcomm.pdf>, cited [C-2]

- [C-1] A. Faragó, S. Blaabjerg, W. Holender, B. Stavenow, T. Henk, L. Ast, S. Székely: Enhancing ATM Network Performance by Optimizing the Virtual Network Configuration, International Conference on Data Communications and their Performance, Chapman&Hall Publisher (eds. R. Onvural, H. Perros), Istanbul, Turkey, 23-26 October 1995, pp. 401-414, *available at DBLP Uni-Trier*, **cited by 4**

[R-7] K. Bur, C. Ersoy: A virtual path routing algorithm for ATM networks based on the equivalent bandwidth concept, Elsevier, Computer Communications, Volume 23, Issue 4, 15 February 2000, Pages 379-394, cited [C-1]

[R-6] M. Rohne, T. Jensen, R. Venturin, I. Svinnet: Identifying cost-effective VP networks, GLOBECOM '99, Global Telecommunications Conference, 1999, vol.2, pp. 1517-1521,

http://ieeexplore.ieee.org/xpl/login.jsp?tp=&number=830033&url=http%3A%2F%2Fieeexplore.ieee.org%2Fxppls%2Fabs_all.jsp%3Famumber%3D830033, cited [C-1]

[R-3] C. Ersoy, G. Gokcay: Optimum Interconnection of LANs/MANs over ATM Networks, Advances in Computer and Information Sciences, IOS Press, 1998,

http://www.google.de/books?hl=en&lr=&id=CIU2XG64UOIC&oi=fnd&pg=PA445&ots=RXrXz0Hn1Z&sig=VWdRqALabFDkZJP1X68_CaYcc&redir_esc=y#v=onepage&q&f=false, cited [C-1]

[R-2] B. Kaan: A Virtual Path Routing Algorithm for ATM Networks based on the Equivalent Bandwidth Concept, M.Sc. thesis, Bogaziti University, 1998, <http://mercan.cmpe.boun.edu.tr/~kaanbur/thesis.pdf>, cited [C-1]

[J-2] I. Cselényi, P. Haraszti, S. Székely: The First Hungarian ATM Pilot Network, Selected Papers from the Hungarian Telecommunication Periodical (in English), 1997, pp. 6-10, [cited by 1](#)
[R-1] G. Seres, F. Baumann, G. Gordos, T. Henk: ATM alkalmazása a lokális hálózatban. A BME-TTT tanszék helyi ATM hálózata, Networkshop'97, Keszthely, Hungary, May 27-29, 1997, <http://www.iif.hu/rendezvenyek/networkshop/97/tartalom/NWS/1/7/index.htm>, cited [J-2], [H-2]

K. Alte realizări semnificative.

Data, 06.02.2013

Semnătura,
