

Lista de lucrări

Candidat: Peculea Adrian-Lucian

Teza de doctorat

Adrian Lucian Peculea: „*Contribuții la dezvoltarea calității serviciilor în rețele de calculatoare*”, conducător științific: Profesor doctor inginer Iosif IGNAT.

Cereri de brevete de invenție

1. **A. Peculea, B. Iancu, V. Dadarlat** - *Metoda de alocare dinamica a latimii de banda si cadru de lucru pentru transmiterea in timp real a informatiilor in retele de calculatoare*; Cerere de brevet, Repository No.: A200900659/27.08.2009.
2. **B. Iancu, A. Peculea, V. Dadarlat** - *Cadru de lucru QoS senzitiv pentru transmiterea informatiilor in timp real in retele de calculatoare eterogene si metoda de alocare dinamica a latimii de banda*; Cerere de brevet, Repository No.: A/10017/2010.

Cărți și capitole în cărți

Cărți

1. Vasile Teodor Dadarlat, **Adrian Peculea**, *Circuite analogice si numerice*, Ed. U.T.PRES, 2006, nr. pag. 199, ISBN (10) 973-662-243-6, ISBN (13) 978-973-662-243-4. [Cod CNCSIS: 161]
2. Bogdan Iancu, **Adrian Peculea**, Cosmin Ardelean, coordonatori: Emil Cebuc, Vasile Dadarlat, *Tehnologii wireless si dispozitive mobile. Aplicatii practice*, Ed. U.T. PRESS, 161 pag., ISBN: 978-973-662-761-3, 2012.

Capitole în cărți

1. A. Costan, B. Iancu, P. C Rasa, A. Radu, **A. Peculea**, V. Dadarlat, *Intercloud: Delivering Innovative Cloud Services*, Digital Entrepreneurship and Global Innovation, IGI Global USA, ISBN: 9781522509530, 2017.

Îndrumătoare de laborator și culegeri de probleme

1. R. Marfievici, C. Ardelean, **A. Peculea**, B. Iancu, C. Magherusan, coordonator Emil Cebuc, *Administrarea retelelor de calculatoare – îndrumator de laborator*, 2009, Ed. U.T. PRES, ISBN 978-973-662-500-8. [Cod CNCSIS: 161]
2. **A. Peculea**, C. Ardelean, R. Marfievici, L. Pacurar, coordonator Emil Cebuc, *Rețele locale de calculatoare – îndrumator de laborator*, 2005, Ed. U.T. PRES, ISBN 973-662-185-5. [Cod CNCSIS: 161]

3. R. Marfievici, A. Peculea, C. Ardelean, L. Pacurar, coordonator Emil Cebuc, *Proiectarea rețele de calculatoare – îndrumator de laborator*, 2005, Ed. U.T. PRES, ISBN 973-662-186-3. [Cod CNCISIS: 161]
4. A. Peculea, C. Ardelean, R. Marfievici, L. Pacurar, coordonator Emil Cebuc, *Local area computer networks Guide for Laboratory Works*, 2005, Ed. U.T. PRES, ISBN 973-662-187-1. [Cod CNCISIS: 161]
5. R. Marfievici, A. Peculea, C. Ardelean, L. Pacurar, coordonator Emil Cebuc, *Computer networks design Guide for Laboratory Works*, 2005, Ed. U.T. PRES, ISBN 973-662-188-X. [Cod CNCISIS: 161]
6. Cosmina Ivan, Vasile-Teodor Dădârlat, Adrian Peculea, *Rețele locale de calculatoare – Îndrumator de lucrari de laborator*, 2001, Ed. U. T. PRES, ISBN 973-8335-00-0. [Cod CNCISIS: 161]
7. Vasile-Teodor Dădârlat, Adrian Peculea, *Circuite Numerice – Îndrumator de laborator*, 2001, Ed. Casa Cartii de Stiinta, ISBN 973-686-148-1. [Cod CNCISIS: 24]
8. Viorel Trifa, Ovidiu Rabulea, Adrian Peculea, *Circuite logice – culegere de probleme*, Atelierul de multiplicare al Universitatii Tehnice din Cluj-Napoca, 2000.

Lucrări indexate ISI/BDI

Articole/studii publicate în reviste de specialitate de circulație internațională recunoscute (cotate ISI)

1. A. Peculea, B. Iancu, V. Dadarlat, I. Ignat, A Novel QoS Framework Based on Admission Control and Self-Adaptive Bandwidth Reconfiguration, *International Journal Of Computers Communications & Control*, vol.5, nr.5, 862-870, 2010. [Thomson Reuters - SCI Expanded]

Articole/studii publicate în reviste de specialitate de circulație internațională recunoscute (cotate BDI/B+)

1. L. Peculea, A. Peculea, *Contemporary perspectives on improving effective teaching at first year students in engineering higher education- a students' perspective*, Educația Plus/Journal Plus Education, Volumul XVIII, No 2 /2017
2. L.Peculea, A. Peculea, *Possibilities for improving the learning to learn competency of students from technical schools - results of an experimental research*, Educatia 21 Journal 14 (2016)
3. A. Peculea, *Computer Network Monitoring System Using the Embedded Event Manager*, in Automation, Computers, Applied Mathematics Journal, Vol. 24, No.1, 2015, pp. 7-12
4. I. Illyes, B. Iancu, A. Peculea, *Enhancing throughput on high bandwidth, high latency WANs using a Multisocket framework*, in Automation, Computers, Applied Mathematics Journal, Vol. 24, No.1, 2015, pp. 13-18
5. A. Peculea, V.Dadarlat, E. Cebuc, B.Iancu, *Performance analysis of routing optimization in Proxy Mobile IPv6 environments*, in Automation, Computers, Applied Mathematics Journal, Volume 23 (2014), Number 1

6. **A.Peculea**, B.Iancu, V.Dadarlat, E. Cebuc, A. Costan, *Framework for Testing Proxy Mobile IPv6 Functionalities*, in Automation, Computers, Applied Mathematics Journal, Volume 22 (2013), Number 2
7. B. Iancu, V. Dadarlat, **A. Peculea**, A Novel End-To-End QoS Framework Over Heterogeneous Networks - An Architectural Approach, *Acta Technica Napocensis Journal*, ISSN 1221-6542, Vol. 51, No. 2, 2010, pp.42-45. [ProQuest] [B+]
8. V. Dadarlat, R. Jeler, **A. Peculea**, B. Iancu, E. Cebuc, C. Ardelean, Development Framework for Congestion Avoidance Mechanisms - *Acta Technica Napocensis Journal* (B+ Indexed), ISSN 1221-6542, Vol. 51, No. 3, 2010. [ProQuest] [B+]
9. **A. Peculea**, V. Dadarlat, I. Ignat, B. Iancu, L. Cobarzan, On Developing a QoS Framework With Self-Adaptive Bandwidth Reconfiguration, *Pollack Periodica An International Journal for Engineering and Information Sciences*, ISSN 1788-1994, Vol.4, No.1, 2009, pp. 121-129. [Scopus Elsevier]
10. B. Iancu, V. Dadarlat, **A. Peculea**, Theoretical Perspectives on End-to-End QoS Frameworks over Heterogeneous Networks, *Pollack Periodica An International Journal for Engineering and Information Sciences*, ISSN 1788-1994, Vol.4, No.1, 2009, pp. 131-144. [Scopus Elsevier]
11. C. Ardelean, A. Colesa, B. Iancu, I. Ignat, **A. Peculea**, Comparison Between Ipv4 and Ipv6 Using ICMP and FTP Protocols, *Automation, Computers, Applied Mathematics Journal*, ISSN 1221-437X, Vol.18, No.1, 2009, pp. 5-12. [Mathematical Review][B+]
12. Z. Baruch, **A. Peculea**, M. Suci, Z., Majo, *FPGA-Based System for Network Flow Identification*, în Control Engineering and Applied Informatics, ISSN 1454-8658, Vol. 8, No. 4, 2006, pp. 50-55. [B+]
13. V. Trifa, L. Zărnescu, O. Răbulea, **A. Peculea**, Considerații asupra sistemului de acționare electrică cu motor cu reluctanță autocomutat. *Revista EEA Electrotehnica 49* (2001), nr. 1-2, ian-feb. 2001, pp. 1-6. [B+]
14. V. Trifa, R. Munteanu, O. Rabulea, **A. Peculea**, LabVIEW implementation of a switched reluctance motor controller, in Electromotion-Cluj-Napoca, vol. 8, no. 1, pp. 39-44-2001.

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* indexate în:

[ISI] – ISI Web of Knowledge (<http://apps.isiknowledge.com/>)

[IEEE] - IEEE Xplore (<http://ieeexplore.ieee.org/Xplore/guesthome.jsp>)

[ACM] - ACM portal (<http://portal.acm.org>)

[DBLP] - (<http://www.informatik.uni-trier.de>)

1. L. Peculea, **A. Peculea**, *A Correlative Study Between Learning Strategies and Independent Learning at First Year Students Preparing to Become Teachers*, International Conference Education and psychology challenges - teachers for the knowledge society – 4th edition (EPC-TKS 2017), Romania - Ploiești, 19-20 May, 2017 (Procedeeing to be published in Journal of Educational Sciences & Psychology, ISSN 2247-6377)[ISI]

2. B. Iancu, R. Kovacs, V. Dadarlat, **A. Peculea**, *Interconnecting heterogeneous non-smart medical devices using a wireless sensor networks (WSN) infrastructure*, 5th International Conference on Advancements of Medicine and Health Care through Technology - MEDITECH 2016, Oct.2016, Romania[ISI]
3. Radu, Alexandru; Costan, Alexandru; Iancu, Bogdan; Dadarlat, Vasile; **Peculea, Adrian**, *Intercloud platform for connecting and managing heterogeneous services with applications for e-health*, in Grid, Cloud & High-Performance Computing in Science (ROLCG), 2015 Conference, vol., no., pp.1-4, 28-30 Oct. 2015 doi: 10.1109/ROLCG.2015.7367229[ISI]
4. **A. Peculea**, Dadarlat, V.T.; Cebuc, E.; Iancu, B., *Test bench for routing optimization algorithms in Proxy Mobile IPv6 environments*, in RoEduNet International Conference - Networking in Education and Research (RoEduNet NER), 2015 14th, pp.44-49, 24-26 Sept. 2015; doi: 10.1109/RoEduNet.2015.7311826[ISI]
5. S. Buzura, V. Dadarlat, **A. Peculea**, B. Iancu, E. Cebuc, *Simulations Framework for Network Congestion Avoidance Algorithms using the OMNeT plus plus IDE*, in 2013 RoEduNet International Conference: Networking in Education, 11th edition, 2013. [ISI]
6. Dragos Petcu, Bogdan Iancu, **Adrian Peculea**, Vasile Dadarlat, Emil Cebuc, *Integrating Cisco Packet Tracer with Moodle platform: support for teaching and automatic evaluation*, in 2013 RoEduNet International Conference: Networking in Education, 12th edition, 2013. [ISI]
7. **B. Iancu**, V. Dadarlat, A. Peculea, E. Cebuc, C. Ardelean, *SAR – A Self-Adaptive QoS Aware Network Layer Framework*, Proceedings of the 10th RoEduNet International Conference, Iasi, Romania, 23-25 June 2011, pp. 113-120. [ISI, IEEE]
8. V. Dadarlat, R. Muresan, B. Iancu, **A. Peculea**, *Towards an Adaptive Monitoring Framework with Security and QoS Support for WSNs: Challenges and Opportunities*, 14th WSEAS International Conference on Communications, Corfu, Greece, July 23-25, 2010. [ISI]
9. B. Iancu, **A. Peculea**, V. Dadarlat, *Development Tool for End-to-End QoS Sensitive Frameworks and Technologies*, The Second International Conference on 'Networked Digital Technologies' NDT2010, Prague, Czech Republic, July 7-9, 2010, pp. 91-98. [DBLP][ISI]
10. **A. Peculea**, R. Jeler, V. Dadarlat, E. Cebuc, B. Iancu, C. Ardelean. *A novel framework for the development of congestion avoidance mechanisms*, Proceedings of the 9th RoEduNet International Conference, Sibiu, Romania, 24-26 June 2010, pp. 265-270. [ISI, IEEE]
11. B. Iancu, V. Dadarlat, **A. Peculea**, *End-to-End QoS Frameworks for Heterogeneous Networks - A Survey*, Proceedings of the 7th RoEduNet International Conference, p.50-p.57, ISBN 978-973-662-393-6, Cluj-Napoca, Romania, 28-30 august 2008. [ISI, IEEE]
12. **A. Peculea**, B. Iancu, I. Ignat, V. Dadarlat, Z. Baruch, E. Cebuc, *An End-to-End QoS Framework with Self-Adaptive Bandwidth Reconfiguration*, RoEduNet 6th International Conference, p.103-p.109, ISBN 978-973-746-581-8, Craiova, Romania, 23-24 noiembrie 2007. [ISI, IEEE]
13. B. Iancu, **A. Peculea**, V. Dadarlat, I. Ignat, E. Cebuc, Z. Baruch, *QoS Parameters' Benchmarking System with Complex Traffic Pattern Definition*, RoEduNet 6th International Conference, p.44-p.49, ISBN 978-973-746-581-8, Craiova, Romania, 23-24 noiembrie 2007. [ISI, IEEE]

14. **A. Peculea**, B. Iancu , V. Dadarlat, I. Ignat, E. Cebuc, Z. Baruch, *Benchmarking System for QoS Parameters*, Proceedings of the IEEE 3rd International Conference on Intelligent Computer Communication and Processing 2007 (ICCP 2007), p.255-p.258, ISBN 1-4244-1491-1, Cluj-Napoca, Romania, 6-8 septembrie 2007. [ISI, IEEE]
15. Z. Baruch, **A. Peculea**, M. Suci, Z. Majo, *Real-Time Network Flow Identification System*, Proceedings of Fifth International Symposium on Communication Systems, Networks and Digital Signal Processing (CSNDSP 2006), ISBN 960-89282-0-6, p.570-p.573, Patras, Grecia, 19-21 Iunie 2006. [ISI, IEEE]
16. Z. Baruch, **A. Peculea**, R. Arsinte, M. Suci, Z. Majo, *Embedded System for Network Flow Identification*, Proceedings of 2006 IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics (AQTR 2006), ISBN 1-4244-0360-X, p.426-p.429, Cluj-Napoca, 25-28 Mai 2006. [ISI, IEEE]
17. K. Pusztai, E. Cebuc, **A. Peculea**, *QoS implementation in computer networks - Case study*, Proceedings of the 4th International Conference RoEduNet Romania, p.255-p.260, ISBN 978-973-7794-29-1, Targu-Mureş, România, 20-20 mai 2005. [ISI]

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Studii publicate în volumele unor manifestări științifice internaționale recunoscute din străinătate

1. V. Trifa, O. Răbulea, **A. Peculea**, Experimental study on labVIEW implementation of a switched reluctance motor controller. *Proceedings of Electromotion Conference*, 19-20 June 2001, Bologna, vol. 2, pp. 473-476.
2. V. Trifa, O. Răbulea, **A. Peculea**, Labview implementation of a switched reluctance motor controller. *Proceedings of the 9th European Conference on Power Electronics and Applications*, EPE'01, Graz, Austria.
3. V. Trifa, R. Munteanu, O. Rabulea, **A. Peculea**, Study and design of an 8/6 switched reluctance motor controller. *Proceedings of ICEM'2000 Conference*, Espoo, Finland, 28-30 Sept. 2000.
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1. V. Trifa, R. Munteanu, O. Răbulea, **A. Peculea**, LabVIEW implementation of a switched reluctance motor controller. *Revista Electromotion 8* (2001), Cluj Napoca, pp.39-44.
2. V. Trifa, V.T. Dădărlat, **A. Peculea**, Evaluation of SRM magnetization surface using neural networks. *Proceedings of the 8th International Workshop on Systems, Signals and Image Processing*, P.U. Bucharest, 7-9 June 2001, pp. 145-148.
3. V. Trifa, O. Răbulea, **A. Peculea**, LabVIEW implementation of a switched reluctance motor controller. *A X-a Conferință Națională de Acționări Electrice*, CNAE 2000, Iași,

12-14 oct. 2000, Buletinul Institutului Politehnic Iași, tomul XLVI (L), fasc. 5, 2000, pp. 79-84.

4. I. Stoian, D. Poruțiu, **A. Peculea**, A. Stoian, Telemedicina – perspective in România. ASCI Transilvania, nr.4/septembrie 1999, Cluj-Napoca, pp. 81-87.
5. G. Sebestyen, **A. Peculea**, L. Todorean, *A Real-Time Medical Supervisory System*. International Conference on Automation and Quality Control A&Q'98, Cluj-Napoca, vol. A, May 1998, pp. A160- A165.

Premii internationale in domeniu

1. B. Iancu, **A. Peculea**, V. Dadarlat – Diploma of Honour at the International Exhibition of Research, Innovation and Technological Transfer “Inventica” 2011, Iasi.
2. B. Iancu, **A. Peculea**, V. Dadarlat - Excellence Award and Silver Medal at the International Exhibition of Inventions ‘ProInvent’ 2011, Cluj-Napoca.
3. B. Iancu, **A. Peculea**, V. Dadarlat - Silver Medal at the 3rd European Exhibition of Creativity and Innovation ‘Euroinvent’ 2011, Iasi.
4. **A. Peculea**, B. Iancu, V. Dadarlat - Excellence Award and Gold Medal at the International Exhibition of Inventions ‘ProInvent’ 2010, Cluj-Napoca.
5. **A. Peculea**, B. Iancu, V. Dadarlat - Bronze Medal at the International Exhibition of Inventions ‘Inventika’ 2010, Bucuresti.
6. Best paper in “Software Applications” Section pentru lucrarea Z. Baruch, **A. Peculea**, R. Arsinte, M. Suci, Z. Majo, “Embedded System for Network Flow Identification”, 2006 IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics (AQTR 2006), Cluj-Napoca, 25-28 mai 2006.

Extras: cele mai relevante 10 publicatii, incluse in format electronic in dosar:

1. **A. Peculea**, Dadarlat, V.T.; Cebuc, E.; Iancu, B., *Test bench for routing optimization algorithms in Proxy Mobile IPv6 environments*, in RoEduNet International Conference - Networking in Education and Research (RoEduNet NER), 2015 14th, pp.44-49, 24-26 Sept. 2015; doi: 10.1109/RoEduNet.2015.7311826 [ISI]
2. B. Iancu, **A. Peculea**, V. Dadarlat, *Development Tool for End-to-End QoS Sensitive Frameworks and Technologies*, The 2nd Int. Conf. on 'Networked Digital Technologies. F. Zavoral et al. (Eds.). Communications in Computer and Information Science, Vol. 88, Part II, Springer, 2010, pp. 91-98, ISBN: 978-3-642-14305-2, DOI: 10.1007/978-3-642-14306-9_10.[Springer]
3. **A. Peculea**, B. Iancu, V. Dadarlat, I. Ignat, A Novel QoS Framework Based on Admission Control and Self-Adaptive Bandwidth Reconfiguration, *International Journal Of Computers Communications & Control*, vol.5, nr.5, 862-870, 2010. [Thomson Reuters - SCI Expanded]
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6. A. Peculea, V. Dadarlat, I. Ignat, B. Iancu, L. Cobarzan, On Developing a Qos Framework With Self-Adaptive Bandwidth Reconfiguration, *Pollack Periodica An International Journal for Engineering and Information Sciences*, ISSN 1788-1994, Vol.4, No.1, 2009, pp. 121-129. [Scopus Elsevier]
7. Z. Baruch, A. Peculea, M. Suciu, Z., Majo, *FPGA-Based System for Network Flow Identification*, în Control Engineering and Applied Informatics, ISSN 1454-8658, Vol. 8, No. 4, 2006, pp. 50-55. [B+]
8. A. Peculea, R. Jeler, V. Dadarlat, E. Cebuc, B. Iancu, C. Ardelean, *A novel framework for the development of congestion avoidance mechanisms*, Proceedings of the 9th RoEduNet International Conference, Sibiu, Romania, 24-26 June 2010, pp. 265-270. [ISI, IEEE]
9. Z. Baruch, A. Peculea, R. Arsinte, M. Suciu, Z. Majo, *Embedded System for Network Flow Identification*, Proceedings of 2006 IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics (AQTR 2006), ISBN 1-4244-0360-X, p.426-p.429, Cluj-Napoca, 25-28 Mai 2006. [ISI, IEEE]
10. K. Pusztai, E. Cebuc, A. Peculea, *QoS implementation in computer networks - Case study*, Proceedings of the 4th International Conference RoEduNet Romania, p.255-p.260, ISBN 978-973-7794-29-1, Targu-Mures, România, 20-20 mai 2005. [ISI]

Ș. L. DR. IUG. PECULEA APLICAT

Peculea

