



Curriculum vitae Europass

Informații personale	
Nume / Prenume	Octavian FRATU
E-mail(uri)	octavian.fratu@upb.ro , ofratu@elcom.pub.ro
Naționalitate(-ități)	română
Experiența profesională <i>(în ordine invers cronologică)</i>	
Perioada	2003 – prezent / 2000-2003 / 1995 -2000 / 1991-1995
Funcția sau postul ocupat	Profesor / Conferentiar /Sef lucrari/ Asistent
Activități și responsabilități principale	Cursuri, aplicatii si laboratoare la disciplinele: • Comunicații Mobile; • Sisteme de comunicații mobile (Master CMob); • Mobile Communications & Wireless Sensor Networks (FILS); • Tehnici avansate de Transmisiuni de date (Master CMob); • Comunicatii de date; • Instrumentație Electronică de Măsură; • Măsurări în Electronică și Telecomunicații
Numele și adresa angajatorului	Universitatea „Politehnica” Bucuresti, Facultatea de Electronica, Telecomunicatii si Tehnologia Informatiei, Bd. Iuliu Maniu 1-3, 061071, Bucharest 6, Romania, www.electronica.pub.ro
Tipul activității sau sectorul de activitate	Învățământ superior
Perioada	Sept 2008- prezent
Funcția sau postul ocupat	Professor (part time)
Activități și responsabilități principale	Curs si aplicații la disciplinele • Comunicatii de Date; • Comunicații Mobile • Rețele de senzori
Numele și adresa angajatorului	Universitatea Maritima din Constanta Bd. Mircea cel Batran nr. 104, 900663
Tipul activității sau sectorul de activitate	Învățământ superior

Perioada	Septembrie 1998 - August 1999
Funcția sau postul ocupat	Stagiu Postdoctoral
Activități și responsabilități principale	Cercetări privind implementarea digitală a receptoarelor RAKE în sistemele UMTS
Numele și adresa angajatorului	Universite Marne la Vallee, France & Ecole National Supérieure de Cachan, France
Tipul activității sau sectorul de activitate	Învățământ superior
Perioada	1990 – 1991
Funcția sau postul ocupat	Asistent (part time)
Activități și responsabilități principale	Aplicatii la disciplina Transmisiuni Analogice si Digitale
Numele și adresa angajatorului	University Politehnica of Bucharest, Facultatea de Electronica, Telecomunicații și Tehnologia Informației Catedra: Telecomunicații Bd. Iuliu Maniu 1-3, Bucharest, 6, 061071
Tipul activității sau sectorul de activitate	Învățământ superior
Perioada	Octombrie 1989 – Octombrie 1991
Funcția sau postul ocupat	Cercetător Stiințific
Activități și responsabilități principale	Dezvoltare aparate de măsură pentru mărimi neelectrice (tensometre automate)
Numele și adresa angajatorului	Institutul de Cercetări Electronice București
Tipul activității sau sectorul de activitate	Cercetare-Dezvoltare în domeniul aparaturii electronice
Perioada	Octombrie 1986 – Octombrie 1989
Funcția sau postul ocupat	Inginer proiectant
Activități și responsabilități principale	Proiectare imprimante matriceale
Numele și adresa angajatorului	Fabrica de Echipamente Periferice (FEPER) București
Tipul activității sau sectorul de activitate	Proiectare în domeniul aparaturii electronice
Educație și formare	<i>în ordine invers cronologică, se vor trece și cele mai importante studii post-universitare, post-doctorale, Burse studii, Stagii lucru</i>
Perioada	Februarie-Martie 2008
Calificarea / diploma obținută	Certificat de Competențe Profesionale Cursuri de Management de Proiect
Disciplinele principale studiate / competențe profesionale dobândite	pe baza standardelor ocupationale R38
Numele și tipul instituției de învățământ / furnizorului de formare	Consiliul Național de Atestare a Standardelor Educaționale pentru Administrația Publică (COSA)
Perioada	1996-1997
Calificarea / diploma obținută	Diploma de absolvire Cursuri postuniversitare de Management and Marketing
Disciplinele principale studiate / competențe profesionale dobândite	Management (modul I) and Marketing (Modul II)
Numele și tipul instituției de învățământ / furnizorului de formare	Camera de Comerț și Industrie din România și Universitate „Politehnica” București în colaborare cu Technische Hochschule Darmstadt, Germania

Perioada	1992 – 1997
Calificarea / diploma obținută	Doctor in Electronica si Telecomunicatii, specializarea Radiocomunicatii
Disciplinele principale studiate / competențe profesionale dobândite	domeniul: Proiectarea Sistemelor de Comunicatii titlul tezei de doctorat „Sincronizarea de tact în transmisiile radio de date”
Numele și tipul instituției de învățământ / furnizorului de formare	Universitatea “Politehnica” din Bucuresti
Perioada	1981 - 1986:
Calificarea / diploma obținută	Diploma de Inginer în Electronica si Telecomunicații
Disciplinele principale studiate / competențe profesionale dobândite	Electronica si Telecomunicații / Radiocomunicații
Numele și tipul instituției de învățământ / furnizorului de formare	Universitatea “Politehnica” din București
Membru al unei Academii din România	Se vor preciza: numele Academiei, calitatea de membru și anul din care este membru
Membru al unei Academii din străinătate	Se vor preciza: numele Academiei, țara, orașul, calitatea de membru și anul din care este membru
Membru al unor organizații științifice sau profesionale	Se vor preciza: numele organizației științifice, țara, orașul, calitatea de membru și anul din care este membru 1. IEEE (No.40111887) 2. AGIR
Membru în Comitetul științific de organizare a unei manifestări științifice	Se vor preciza: perioada, tipul manifestării, instituții organizatoare, unde a avut loc [țara, oraș] – eventual dacă a fost și conducătorul manifestării [principalul organizator] • Membru al comitetului de organizare al simpozionului „Mobile Communication Systems” Bucuresti, Romania 23 Mai 1995 • Organizator al sesiunii speciale "Propagation, reliability and security issues in wireless and optical communications", ATOM-N, Constanta, 2020 și 2022 • Membru al comitetului de organizare (publicatii si publicitate) ICT-2001 Bucuresti, Romania, 2001; • organizator al sesiunii speciale “Synergy versus Convergence in the Wireless and Hybrid Mobile Broadband Communications beyond 3G” in IEEE- EUROCON 2005, Belgrade, Serbia and Muntenegru; • Chairman al comitetului local de organizare al Conferinței IEEE & ComSoc BlackSeaCom 2015 (Constanta, Romania, 18-21 mai 2015) • Publication Chairman al BlackSeaCom 2016 IEEE & ComSoc Conference (Varna, Bulgaria, 6-9 iunie 2016) • Organizator al sesiunii speciale "Computer-based Algorithms and Systems for Efficiency and Optimization in RF Spectrum Detection and Estimation" ECBS 2019 (6th European Conference on the Engineering of Computer Based Systems) Bucuresti 2-3 sept 2019 • organizator Special Session “Industrial and AI-based applications and secure systems and communications in the era of Future Networks and beyond” ECAI-2023: 15th Edition of International Conference on Electronics, Computers and Artificial Intelligence, Politehnica University of Bucharest, Bucharest, Romania, June 29-30, 2023

Membru in Colegiul de redacție / referent al unei reviste	Se vor preciza: titlul revistei, editura, ISSN, factor de impact al revistei, frecvența de apariție – eventual dacă conduceți chiar dvs. revista • Editor asociat - special number Symmetry and Assymetry in Communications Engineering I (2022-2023) and II (2023-2024)- Symmetry MDPI (ISSN: 2073-8994) • Editor asociat - special number Special Issue "State-of-the-Art Sensors Technology in Romania 2021" (2021-2022) and "State-of-the-Art Sensors Technology in Romania 2022" (2022-2023) - Sensors MDPI (ISSN 1424-8220) • Editor asociat – special issue on Trends and Prospects for Wireless Sensor Networks and IoT, 2023-2024, (ISSN 2076-3417) • dec. 2005 – dec 2006– associated editor at IEEE Global Communication Newsletter (GCN);									
Aptitudini și competențe personale										
Limba(i) maternă(e)	Română									
Limba(i) străină(e) cunoscută(e)										
Autoevaluare	Înțelegere				Vorbire				Scriere	
Nivel european (*)	Ascultare		Citire		Participare la conversație		Discurs oral		Exprimare scrisă	
Limba engleză	C1	Utilizarea competență a limbii	C1	Utilizarea competență a limbii	C1	Utilizarea competență a limbii	C1	Utilizarea competență a limbii	C1	Utilizarea competență a limbii
Limba franceză	B2	Utilizarea independentă a limbii	B2	Utilizarea independentă a limbii	B2	Utilizarea independentă a limbii	B2	Utilizarea independentă a limbii	B2	Utilizarea independentă a limbii
	(*) Nivelul Cadrului European Comun de Referință Pentru Limbi Străine									
Competențe și abilități sociale	Capacitati de comunicare; Capacitatea de a lucra in echipa Competente de management de proiect Capacitatea de a lucra intr-un mediu multicultural;									

Competențe și aptitudini organizatorice	• Coordonator stiintific a 10 proiecte nationale si a 3 proiecte internationale, incluzând: - o O. Fratu (director de proiect) s.a. „Platforma Software integrata pentru analiza malware a terminalelor mobile (ToR-SIM)”, contract (grant) nr. 5Sol/2017, proiect de cercetare PN3 de tip Solutii, (durata 3 ani: 2017-2020). - o A. M. Florea , O.Fratu s.a., “Ecosistem de cercetare, inovare și dezvoltare de produse și servicii TIC pentru o societate conectată la Internet of Things (NETIO)”, contract (grant) nr. 53/05.09.2016, proiect de cercetare POC-G, Director de proiect și coordonator UPB: (durata 4 ani: 2016-2020) (O. FRATU – Expert). - o S. Halunga, O. Fratu s.a., “Scalable Radio Transceiver for Instrumental Wireless Sensor Network (SaRaT-IWSN)”, contract (grant) nr. 20/2011, proiect de cercetare PNCDI II de tip parteneriat (coordonator: UPB, participanți: Beia Consult International SRL, IFIN-HH), (durata 4 ani: 2012-2016) – dezvoltare de module de comunicatii pentru rețele instrumentale de senzori. - o O. Fratu (coord. UPB), S. Halunga și alții, “eWALL for Active Long Living/ewall (eWALL-Ro)”, IP - FP7 European project no. 610658, accepted in FP7-ICT-2013-10 call, (coord. Aalborg University, 13 partners from Denmark, Germany, Italy, România, Croația, Greece, Holande, Austria, Macedonia, Muntenegru and Bulgaria) , (2013-2016) – aplicatii IoT in domeniul eHealth si eCare. - o „Optimisation and Rational use of Wireless Communications Bands (ORCA)”, Science for Peace NATO project no. SfP-984409 (participanți din Macedonia, Denmark, România și Greece), Co-Director and UPB coord: Prof. O. Fratu, (2013 –2015). - o O. Fratu (PPD, UPB coord.), S. Halunga, I. Marghescu ș.a., „Reconfigurable Interoperability of Wireless Communications Systems (RIWCoS)”, Science for Peace NATO project no. SfP-982469 (international coordinators: O. Fratu – PPD, A.C. Boucouvalas – NPD, participanți din România, Greece, Macedonia și Denmark) (2007-2011). - o O. Fratu UPB coord.), S. Halunga, Al. Vulpe, C. Voicu, R. Craciunescu și alții, “Investigation of the cosmic radiation in the Universe using advanced techniques (CORONA)”, proiect PNCDI II de tip parteneriat nr. 194/2012, (coord: IFIN-HH, participanți: UPB, Universitatea București, IIS), (2012-2016). - o O. Fratu (UPB coord.), S. Halunga, Al. Vulpe, C. Voicu, R. Craciunescu și alții, „Evoluția, modalitățile de implementare și de tranziție pentru radiodifuziunea digitală DVB În condițiile de utilizare eficientă a spectrului de frecvențe (Evolution, implementation and transition methods for DVB radiobroadcasting using efficiently the frequency spectrum) ”, proiect no. 106/08.08.2011, finanțat de MCSI (coordinator UPB, participant ICI), (2011-2013). - o S. Halunga (UPB coord.), O. Fratu (scientific coordinator), Al. Vulpe, C. Voicu, R. Craciunescu și alții, “Scalable Radio Transceiver for Instrumental Wireless Sensor Network (SaRaT-IWSN)”, proiect PNCDI II de tip parteneriat nr. 20/2012, (coord: UPB, participants: IFIN-HH, Beia), (2012-2016) • Participant, ca membru în echipa de cercetare, in peste 40 de proiecte (6 in ultimii 5 ani) din care 9 proiecte internationale (două in ultimii 5 ani).
Competențe și aptitudini de utilizare a calculatorului	Matlab / Simulink / Qualnet simulations; basic C; MS Office, OpenOffice, Visio
Competențe și aptitudini tehnice	• abilitatea de a dezvolta si testa module si sisteme de comunicatii mobile (nivelul fizic in retele de acces wireless hibride); • tehnici de modulare și codare pentru sistemele de comunicatii mobile; • proiectarea si evaluarea performantelor in retelele radio de acces si de senzori. Experiență industrială și consulting • 1999- prezent – inginer consultant in probleme de radiocomuniatii la „Beia Consult International” • 2000-2009: inginer de proiectare la LDIC California, Bucuresti, ulterior Atmel Romania.
Competențe și aptitudini artistice	
Alte competențe și aptitudini	Fotografie, turism montan
Permis(e) de conducere	Categoria B din 1997

Informații suplimentare	• evaluator ARACIS – din decembrie 2010 • evaluator FP7 – FP7 Strep Projects – Call 4 (ICT 2009.1.1 The Network of the Future) 25-29 May 2009, Bruxelles, precum și evaluator pentru monitorizarea proiectelor STREP FP7 aflate în derulare (ICT 2009.1.1 The Network of the Future). • 1995 – prezent: membru al comitetului Tehnic nr. 6, Echipamente radio de emisie-recepție – Asociația Română de Standardizare, • mai 2004 – prezent – expert evaluator pentru Consiliul National de Cercetare Științifică, în domeniul sistemelor de comunicație analogice și digitale, transmisiuni de date, comunicații mobile / wireless, rețele mobile și procesarea semnalelor pentru telecomunicații. • dec. 2005 – dec 2006– editor asociat la IEEE Global Communication Newsletter (GCN); • recenzor științific al TTC 2005; • Membru în comisiile de licență și master din 1995; • Director Economic al „Centrului de Cercetare pentru Comunicații și Prelucrări de Semnale” (3CPS)
Anexe (v. Anexa 4 de la pagina 9, de mai jos)	LISTA DE LUCRĂRI ȘTIINȚIFICE Membru / Expert / Responsabil / Director - ÎN ECHIPA DE CERCETARE în cadrul unor proiecte de cercetare

A. Listă articole Google Scholar

Prof. Octavian FRATU

(primele 100 în ordinea nr. de citări; sunt menționate citările ISI)

17 febr. 2024

1. Suci, G.; Vulpe, Al.; Halunga, S.; Fratu, O.; Todoran, G.; Suci, V., Smart Cities Built on Resilient Cloud Computing and Secure Internet of Things, *Proceedings of the 19th International Conference On Control Systems And Computer Science (CSCS 2013)*, 29 May 2013, Pages 513-518, DOI: 10.1109/CSCS.2013.58, ACM Digital Library, ISBN 978-0-7695-4980-4, WOS: 000328493800077, 110 citări
2. Suci, G. ; Suci, V.; Martian, Al.; Craciunescu, R.; Vulpe, Al.; Marcu, I.; Halunga, S.; Fratu, O.; Big Data, Internet of Things and Cloud Convergence - An Architecture for Secure E-Health Applications, *Journal Of Medical Systems*, Volume 39, Issue 11, DOI: 10.1007/s10916-015-0327-y, Article no. 141, Nov. 2015, Springer, ISSN 0148-5598, WOS: 000363557500011, JCI 1.21 (2022, Q1), 106 citări
3. Pierre Auger Collaboration (Aab, A.; Abreu, P.; Aglietta, M.; Ahn, E. J.; Al Samarai, I.; Albert, J. N.; Albuquerque, I. F. M.; Allekotte, I.; Allen, J; Allison, P.; ... ; Fratu, O.; ... ; Ziolkowski, M. - în total 500 autori), Description of atmospheric conditions at the Pierre Auger Observatory using the Global Data Assimilation System (GDAS), *Astroparticle Physics*, Volume 35, Issue 9, Pages 591-607, DOI: 10.1016/j.astropartphys.2011.12.002, Apr. 2012, Elsevier, ISSN 0927-6505, WOS: 000302109200006, JCI 0.82 (2022, Q2), 62 citări
4. Stancu, Al. L.; Halunga, S.; Vulpe, Al.; Suci, G.; Fratu, O.; Popovici, E.C.; A Comparison between Several Software Defined Networking Controllers, *Proceedings of the 12th International Conference On Telecommunications In Modern Satellite, Cable And Broadcasting Services (TELSIKS 2015)*, Pages 223-226, Nis, Serbia, IEEEExplore Digital Library, ISBN 978-1-4673-7516-0, WOS: 000380406700043, 40 citări
5. Halunga, S. V.; Vizireanu, N.; Fratu, O., Imperfect cross-correlation and amplitude balance effects on conventional multiuser decoder with turbo encoding, *DIGITAL SIGNAL PROCESSING*, Volume 20, Issue 1, Pages 191-200, DOI: 10.1016/j.dsp.2009.05.007, Jan. 2010, Elsevier, ISSN 1051-2004, WOS: 000272437900018, JCI 0.70 (2022, Q2), 60 citări
6. Fratu, O.; Pena, C.; Craciunescu, R.; Halunga, S.; Fog Computing System for Monitoring Mild Dementia and COPD Patients - Romanian Case Study -, *Proceedings of the 12th International Conference On Telecommunications In Modern Satellite, Cable And Broadcasting Services (TELSIKS 2015)*, Pages 123-128, Nis, Serbia, IEEEExplore Digital Library, ISBN 978-1-4673-7516-0, WOS: 000380406700024, 26 citări
7. A Aab, P Abreu, M Aglietta, M Ahlers, EJ Ahn, I Albuquerque, I Allekotte, ..., The Pierre Auger observatory: contributions to the 33rd international cosmic ray conference (ICRC 2013), arXiv preprint arXiv:1307.5059
8. Chiper, Fl. L.; Martian, Al.; Vlădeanu, C.; Marghescu, I.; Craciunescu, R.; Fratu, O.; Drone Detection and Defense Systems: Survey and a Software-Defined Radio-Based Solution, *SENSORS*, Volume 22, Issue 4, DOI: 10.3390/s22041453, Article no. 1453, Febr 2022, MDPI., ISSN 1424-8220, WOS: 000765140800001, JCI 0.89 (2022, Q2), 23 citări
9. Kyriazakos, S.; Mihaylov, M.; Anggorojati, B.; Mihovska, A.; Craciunescu, R.; Fratu, O.; Prasad, R.; eWALL: An Intelligent Caring Home Environment Offering Personalized Context-Aware Applications Based on Advanced Sensing, *WIRELESS PERSONAL COMMUNICATIONS*, Volume 87, Issue 3, Pages 1093-1111, Special Issue, DOI: 10.1007/s11277-015-2779-2, Apr. 2016, Springer, ISSN 0929-6212, WOS: 000372271400026, JCI 0.49 (2022), 22 citări
10. A Letessier-Selvon, Pierre Auger Collaboration (O. Fratu and others), Highlights from the Pierre Auger Observatory *Brazilian Journal of Physics* 44, 560-570 49 , 2014

11. Dragulinescu, A. M. C.; Manea, A. F.; Fratu, O.; Dragulinescu, A.; LoRa-Based Medical IoT System Architecture and Testbed, *WIRELESS PERSONAL COMMUNICATIONS*, Volume 126, Issue 1, Pages 25-47, DOI: 10.1007/s11277-020-07235-z, Mar. 2020, Springer, ISSN 0929-6212, WOS: 000521919100001, JCI 0.49 (2022), 21 citări
12. Pierre Auger Collaboration (Aab, A.; Abreu, P.; Aglietta, M.; Ahn, E. J.; Al Samarai, I.; Albert, J. N.; Albuquerque, I. F. M.; Allekotte, I.; Allen, J.; Allison, P.; ... ; Fratu, O.; ... ; Ziolkowski, M. - în total 492 autori), Measurement of the cosmic ray energy spectrum using hybrid events of the Pierre Auger Observatory, *EUROPEAN PHYSICAL JOURNAL PLUS*, Volume 127, Issue 8, DOI: 10.1140/epjp/i2012-12087-9, Article No. 87, Aug. 2012, Springer Heidelberg, ISSN 2190-5444, WOS: 000308826400004, JCI 0.89 (2022, Q2), 32 citări
13. Suci, G.; Vulpe, Al.; Fratu, O.; Suci, V., M2M Remote Telemetry and Cloud IoT Big Data Processing in Viticulture, *Proceedings of the 11th IEEE INTERNATIONAL WIRELESS COMMUNICATIONS & MOBILE COMPUTING CONFERENCE (IWCMC 2015)*, Pages 1117-1121, AUG 24-25, 2015, Dubrovnik, CROATIA, IEEEExplore Data Base, ISBN 978-1-4799-5344-8, WOS: 000381477900191, 9 citări
14. G Suci, O Fratu, S Halunga, CG Cernat, V Poenaru, V Suci, Cloud consulting: ERP and communication application integration in open source cloud systems, 2011 19th Telecommunications Forum (TELFOR) Proceedings of Papers, 578-581 33, 2011
15. CG Butca, G Suci, A Ochian, O Fratu, S Halunga, Wearable sensors and cloud platform for monitoring environmental parameters in e-health applications, 2014 11th international symposium on electronics and telecommunications 31, 2014
16. Ochian, A.; Suci, G.; Fratu, O.; Voicu, C.; Suci, V., An Overview of Cloud Middleware Services for Interconnection of Healthcare Platforms, *Proceedings of the 10th IEEE International Conference on Communications (COMM 2014)*, MAY 29-31, 2014, Bucharest, ROMANIA, IEEEExplore Digital Library, ISBN 978-1-4799-2385-4, WOS: 000345844600097, 3 citări
17. Fratu, O.; Martian, Al.; Craciunescu, R.; Vulpe, Al.; Halunga, S.; Lazaridis, P.; Zaharis, Z.; Kasampalis, S. Comparative study of Radio Mobile and ICS Telecom propagation prediction models for DVB-T, *Proceedings of the 10th IEEE International Symposium on Broadband Multimedia Systems and Broadcasting (BMSB 2015)*, JUN 17-19, 2015, Ghent Univ, Ghent, BELGIUM, DOI: 10.1109/BMSB.2015.7177260, IEEEExplore Data Base, ISSN 2155-5044, WOS: 000369105500076, 9 citări
18. SC Arseni, S Halunga, O Fratu, A Vulpe, G Suci, Analysis of the security solutions implemented in current Internet of Things platforms, 2015 Conference Grid, Cloud & High Performance Computing in Science (ROLCG), 1-4 27, 2015
19. Ochian, A.; Suci, G.; Fratu, O.; Suci, V., Big Data Search for Environmental Telemetry, *Proceedings of the 2014 IEEE INTERNATIONAL BLACK SEA CONFERENCE ON COMMUNICATIONS AND NETWORKING (BLACKSEACOM 2014)*, Pages 182-184, MAY 27-30, 2014, Chisinau, MOLDOVA, IEEEExplore Data Base, ISBN 978-1-4799-4067-7, WOS: 000343593200043, 15 citări
20. Andrei, V.; Popovici, E.C.; Fratu, O.; Halunga, S. V., Development of an IEEE 802.21 Media Independent Information Service, *PROCEEDINGS OF 2010 IEEE INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING, ROBOTICS (AQTR 2010)*, VOLS. 1-3, MAY 28-30, 2010, Cluj Napoca, ROMANIA, IEEEExplore Data Base, ISBN 978-1-4244-6725-9, WOS: 000419281500118, 7 citări
21. Marcu, I.; Voicu, C.; Dragulinescu, A. M. C.; Fratu, O.; Suci, G.; Balaceanu, C.; Andronache, M. M., Overview of IoT Basic Platforms for Precision Agriculture, *Proceedings of the 4th European-Alliance-for-Innovation (EAI) International Conference on Future Access Enablers of Ubiquitous and Intelligent Infrastructures (FABULOUS 2019)*, MAR 28-29, 2019, Sofia, BULGARIA, published in *Lecture Notes of the Institute for Computer Sciences Social Informatics and Telecommunications Engineering*, Volume 283, Pages 124-137, DOI: 10.1007/978-3-030-23976-3_13, EAI, Springer International, ISSN 1867-8211, WOS: 000552334400013, 7 citări
22. Contu, C. A. ; Popovici, E. C.; Fratu, O.; Berceanu, M. G., Security Issues in Most Popular Content Management Systems, *Proceedings of the 11th IEEE International Conference on Communications (COMM 2016)*, Pages 277-280, JUN 09-11, 2016, Bucharest, ROMANIA, IEEEExplore Digital Library, ISBN 978-1-4673-8197-0, WOS: 000383221900058, 2 citări

23. Boitan, Al.; Halunga, S.; Bîndar, V.; Fratu, O., Compromising Electromagnetic Emanations of USB Mass Storage Devices, *WIRELESS PERSONAL COMMUNICATIONS*, Volume 126, Issue 1, Pages 97-122, DOI: 10.1007/s11277-020-07329-8, Apr. 2020, Springer, ISSN 0929-6212, WOS: 000528336100007, JCI 0.49 (2022), 8 citări
24. Draghicescu, D.; Caranica, Al.; Vulpe, Al.; Fratu, O., Crypto-mining Application Fingerprinting Method, *Proceedings of the 12th IEEE International Conference on Communications (COMM 2018)*, Pages 543-546, JUN 14-16, 2018, Bucharest, ROMANIA, IEEEExplore Digital Library, ISBN 978-1-5386-2350-3, WOS: 000449526000103, 7 citări
25. G Suci, S Halunga, O Fratu, A Vasilescu, V Suci, Study for renewable energy telemetry using a decentralized cloud M2M system, 2013 16th International Symposium on Wireless Personal Multimedia ... 17, 2013
26. H Boujemaa, O Fratu, M Siala, P Loubaton, On the performance of a discrete time rake, 11th IEEE International Symposium on Personal Indoor and Mobile Radio ... 17, 2000
27. Fratu, O. ; Vulpe, Al.; Craciunescu, R.; Halunga, S., Small Cells in Cellular Networks: Challenges of Future HetNets, *WIRELESS PERSONAL COMMUNICATIONS*, Volume 78, Issue 3, Pages 1613-1627, DOI: 10.1007/s11277-014-1906-9, OCT 2014, Springer, ISSN 0929-6212, WOS: 000391392900007, JCI 0.49 (2022), 5 citări
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(primele 50 în ordinea nr. de citări)

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D. Listă articole Conferințe
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17 febr. 2024

Vis- Volumele unor manifestări științifice internaționale recunoscute, organizate în țară și străinătate, indexate ISI Thomson Reuters sau indexate în alte Baze de Date Internaționale - BDI specifice domeniului, care fac un proces de selecție apublicatiilor pe baza unor criterii de performanță.

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7. S. Halunga, **O. FRATU** “*Simularea sistemelor de transmisiune analogice și digitale folosind mediul Matlab/Simulink*” - Editura Matrix Rom, București, ISBN 973-685-716-6, 324 pag., 2004.
8. **O. FRATU**, S. Halunga, “*UMTS - o nouă generație în comunicațiile mobile digitale (Aspecte generale. Interfața radio)*”, Editura Electronica 2000, București, ISBN 973-99878-5-0, 310 pag., 2003.
9. S. Halunga, **O. FRATU**, “*Sisteme cu spectru împrăștiat de tip secvență directă: tehnici de sincronizare*” - Editura Academiei tehnice Militare, București, ISBN 973-9456-96-0, 182 pag., 2001.
10. S. Halunga, **O. FRATU**, D Vizireanu “*Sisteme de comunicație cu acces multiplu cu diviziune în cod (CDMA) - Noțiuni fundamentale. Tehnici de codare*” - ETF, București, ISBN 973-95319-1-1, 350 pag., 2000.

CĂRȚI sau CAPITOLE DE CARTI publicate la edituri din străinătate

1. R. Craciunescu, S. Halunga, **O. FRATU**, “Enhanced Massive Machine Type Communications for 6G Era” book chapter number 5 from: “6G Enabling Technologies: New Dimensions to Wireless Communication” book, River Publishers 2023, ISBN (print) 978-8-770-22774-2.
2. **O. FRATU**, N. Militaru, S. Halunga (Ed.) „*Future Access Enablers for Ubiquitous and Intelligent Infrastructures (FABULOUS 2017)*”, Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering no. 241, Springer, ISBN 978-3-319-92212-6, 262 pag., 2018.
3. I. Marcu, S. Halunga, **O. FRATU**, D. Vizireanu, “*Multiuser systems implementations in fading environment*”, chapter within *Matlab / Book 5*, (Editor: Prof. Tadeusz Michałowski), Ed. InTech, ISBN 979-953-307-124-3, 2011.
4. E. C. Popovici, I. M. Marcu, **O. FRATU**, S. V. Halunga, “*Location-based Web System for Geographically Distributed Mobile Teamwork Management*”, capitol de carte publicat în *ADVANCES IN INTELLIGENT WEB MASTERING 3*, Book Series: “Advances in Intelligent and Soft Computing” Volume: 86 Pages: 217-224 DOI: 10.1007/978-3-642-18029-3_22, January 26-28th 2011, Fribourg, Switzerland, pag. 217-

ÎNDRUMARE DE LABORATOR ȘI CULEGERI DE PROBLEME

1. S. Halunga, O. Fratu, "*Transmisiuni analogice și digitale. Îndrumar de laborator*" (Analog and digital transmissions - laboratory guide), Editura Electronica 2000, București, 2003 (149 pag.), ISBN 973-99878-0-X. , referenți Prof. Dr. Ing. I. Constantin, (UPB), Prof Dr Ing. I Marghescu (UPB), tiraj 200 buc
2. O. Fratu, I. Fratu, "*Transmisiuni de date BPSK și BFSK*", îndrumar de proiect, ETF, București, ISBN 973-95319-0-3, 44 pag., 1998.
3. D. Zamfirescu, O. Fratu, S. Halunga, Z. Gheldiu - "*Transmisiuni analogice și digitale*" (Analog and digital transmissions - laboratory guide)- îndrumar de laborator - Litografia UPB, București, 1995 (137 pag.), tiraj 100 buc.
4. O. Fratu, S Halunga - "*Transmisiuni de date pe canale radio*"(Data transmissions on rado channels - laboratory guide)- îndrumar de laborator - Litografia UPB, București, 1997 (52 pag.), tiraj 100 buc.

H. Brevete naționale, Octavian Fratu

1. **2020. Sistem de telemetrie pentru agricultură inteligentă adresat fermierilor și producătorilor agricoli, are set de componente de monitorizare, avertizare și sprijinire a deciziilor în cloud, care asigură vizualizarea și analiza datelor, notificărilor sau recomandărilor rezultate în urma analizei datelor.**
SMARTAGRO (TELEMETRY SYSTEM FOR INTELLIGENT AGRICULTURE)
Patent Number: RO135499A2
Publication Date: 2022-01-28
Application Number: RO202000442
Filing Date: 2020-07-27
Inventor : Marcu, Ioana - Manuela Fratu, Octavian Halunga, Simona Viorica Vulpe, Răzvan - Alexandru Florea, Carmen Marțian, Alexandru Drăgulescu, Ana - Maria - Claudia Suci, George Suci, Gheorghe Bălăceanu, Cristina Mihaela Drosu, Alexandru Chevereșan, Romulus - Nicolae Miu, Delia
Assignee: UNIVERSITATEA POLITEHNICA DIN BUCUREȘTI BEIA CONSULT INTERNATIONAL S.R.L.
IPC: G16Y10/05
Abstract: The invention relates to a telemetry system for intelligent agriculture which is addressed to farmers and agricultural producers, as a support in decision-making related to irrigation and fertilization of agricultural land, as well as to crop growth. According to the invention, the system comprises the following components: I. a component of data acquisition from agricultural lots comprising sensors for monitoring parameters of interest, actuators and acquisition systems, II. a component for data processing based on the Edge Computing model which allows the processing of data streams from sensors, III. a wireless communication component mainly based on LPWAN (Low Wide Area Network) technology LoRa which performs the different data routing depending on the labeling performed in the component for data processing, IV. a component for grouping data of several lots; V. a component for monitoring, warning and supporting decisions in cloud, which provides for the visualization and analysis of data, as well as of the notifications or recommendations resulting from the data analysis and VI. a mobile application for viewing the parameters of interest and the notifications.
2. **2018. Sistem Hardware de detectie a radiatiei cosmice de neutrini in sare**
HARDWARE SYSTEM FOR DETECTING NEUTRIN-TYPE COSMIC RADIATION IN SALT
Patent Number: RO133011A2
Publication Date: 2018-12-28
Application Number: RO201600959
Filing Date: 2016-12-05

Inventor : Savu, Valeriu **Fratu, Octavian** Halunga, Simona Viorica Crăciunescu, Răzvan-Eusebiu Voicu, Carmen Vulpe, Răzvan-Alexandru
Assignee: UNIVERSITATEA POLITEHNICA DIN BUCUREȘTI
IPC: G01T1/17

Abstract: The invention relates to a hardware system for detecting neutrino-type cosmic radiation in salt rocks. According to the invention, the system consists of a hybrid network of radio detectors consisting of a radio station SR_{mkn}, where m is equivalent with the x coordinate, k is equivalent with the y coordinate and n is equivalent with the z coordinate, where each radio station includes two antennas for horizontal polarization (1) and two antennas for vertical polarization (2), an impedance adapting circuit (3) for each antenna, an adder (4) for each polarization, a band-pass filter (5) for selecting the desired spectral components, several amplifiers (6) followed by a band-pass filter (7), an amplifier (8) followed by an anti-aliasing filter (9), an analogue-to-digital convertor (10), a FIFO memory (11), a local processing system of the radio station and a wireless transceiver coupled to a PC-type computer (12).

3. 2016 Centru de comunicatii COMM-CENTER
COMMUNICATION CENTER (COMM-CENTER)

Patent Number: RO130954A2
Publication Date: 2016-02-26
Application Number: RO201400580
Filing Date: 2014-07-30

Inventor : Suciuc, Gheorghe Enache, Marius Suciuc, Victor **Fratu, Octavian** Halunga, Simona Viorica Suciuc, George Crăciunescu, Răzvan Eusebiu Vulpe, Răzvan Alexandru Stoica, Alexandru
Assignee: BEIA CERCETARE S.R.L.
IPC: H04M3/42

Abstract: The invention relates to a call-center-type communication center meant to provide the unification of communications of various types: fixed and mobile telephony, e-mail, SMS etc. and to open the way for other applications of interactive communications not involving human operator. The communication center consists of two main components, namely: a digital telephone exchange (PBX) and a communication server (SC), meant for communication applications (AS), which integrates an application of interactive vocal response (IVR) which, in its turn, integrates a text-to-speech type application (TTS), which gives the possibility of voice mode transmission, in the Romanian language, of the texts recorded in a dynamic-content data base, and an application (ASR) of speech recognition of the speech-to-text type, which allows it to record a voice message, convert the same into text format and handle it as a document.

4. 2012. Sistem pentru monitorizarea monoxidului de carbon
SYSTEM FOR MONITORING CARBON MONOXIDE

Patent Number: RO127588A2
Publication Date: 2012-06-29
Application Number: RO201001127
Filing Date: 2010-11-17

Inventor : Nedelcu, Ion Enache, Marius Alecu, Georgeta Suciuc, Victor Poenaru, Violeta **Fratu, Octavian** Dragomir, Ana-maria Mateescu, Lucian
Assignee: CEPROCIM S.A. UNIVERSITATEA POLITEHNICĂ DIN BUCUREȘTI INSTITUTUL NAȚIONAL DE CERCETARE-DEZVOLTARE PENTRU INGINERIE ELECTRICĂ ICPE - CA BEIA CONSULT INTERNATIONAL SRL OUTSOURCE MANAGEMENT GROUP AGENȚIA SPAȚIALĂ ROMÂNĂ (ROSA)
IPC: G06F17/40

Abstract: The invention relates to a system for monitoring carbon monoxide, which allows the acquisition, processing and interpretations of data related to the carbon monoxide concentration and data related to environment and the comparison thereof with the provisions of the standards. According to the invention, the system comprises a carbon monoxide analyser, environment sensors such as temperature, moisture, pressure, wind direction/ speed sensors, GPS sensor, distant terminal, IP wireless infrastructure, communication management

server geospatial databases which allow the storage and retrieval of data depending on certain criteria and application server / interactive service portal, said server processing the data, namely transforms the values of the carbon monoxide concentration in standard temperature and pressure conditions in order to make a comparison with the threshold values, compares the collected data with the pre-set threshold values and transmits a warning signal together with the set of measured values, calculates the average concentrations and compares the collected data with the maximal admitted short-term average concentration and the maximal admitted long-term average concentration.

I. Director de proiecte de cercetare internațională Octavian Fratu

1. Arrowhead-fPVN - „Arrowhead Flexible Production Value Networks”, proiect HEU tip HORIZON-JU-IA nr. 101111977, acceptat în cadrul apelului HORIZON-KDT-JU-2022-1-IA, topic HORIZON-KDT-JU-2022-1-IA-Topic-1, (coord. Lulea University, Suedia, 43 parteneri din Europa), Responsabil UPB: **O. FRATU**, buget CE 152 425 euro (UPB) din total CE 7 403 815,06 euro, (durata 39 luni: 2023-2026).
2. RECOMBINE- „Research Collaboration and Mobility for Beyond 5G Future Wireless Networks”, proiect H2020 tip H2020-MSCA-RISE nr. 872857, acceptat în cadrul apelului H2020-MSCA-RISE-2019, (coord. Aarhus University, Danemarca, 16 parteneri din Europa, Statele Unite și Brazilia), Responsabil UPB: **O. FRATU**, buget 64400 euro (UPB) din total 4778400 euro, (durata 66 luni: 2020-2025)..
3. “eWALL for Active Long Living/ewall (eWALL-Ro)”, proiect FP7 tip IP nr. 610658, acceptat în cadrul apelului FP7-ICT-2013-10, (coord. Aalborg University, 13 parteneri din Danemarca, Germania, Italia, România, Croația, Grecia, Olanda, Austria, Macedonia, Muntenegru și Bulgaria) , Responsabil UPB: Prof. **O. FRATU**, buget total UPB 493067 euro (din care de la bugetul CE 368400 euro), (durata 3 ani: 2014-2016).
4. „Optimisation and Rational use of Wireless Communications Bands (ORCA)”, Contract NATO de tip „Știință pentru Pace” nr. SFP-984409 (participanți din Macedonia, Danemarca, România și Grecia), Co-Director și Responsabil UPB: Prof. **O. FRATU**, 2013 - 2015 buget care UPB 21000 Euro, (durata 3 ani: 2013-2015).
5. “Reconfigurable Interoperability of Wireless Communication Systems (RIWCoS)”, proiect NATO tip Știința pentru Pace, ICS.EAP.SFPP-982469 (participanți din Macedonia, Danemarca, România și Grecia), Director (PPD) și Responsabil UPB: Prof. **O. FRATU**, durata 3 ani și 6 luni: 2007 - 2011 buget 284000 Euro (din care UPB 144000 Euro).

J. Director de proiecte de cercetare națională Octavian Fratu

1. „Colaborare în cercetare și mobilitate pentru rețelele fără fir viitoare dincolo de 5G (RECOMBINE_Ro)”, contract (grant) nr. 70 / 2022, proiect de cercetare în parteneriat finanțat de UEFISCDI prin PN3, coordonator și unic partener Universitatea POLITEHNICA din București (UPB), Director de proiect Prof. **O. FRATU**, durata 24 luni (2022-2023), buget UPB și total 23520 lei.
2. „Platforma de sisteme inteligente multiagent pentru monitorizarea calitatii apei pe sectorul românesc al Dunării și Deltei Dunării (MultiMonD2)”, contract (grant) nr. 33PCCDI/2018, proiect de cercetare PN3 de tip Complex, Responsabil de proiect și coordonator UPB: Prof. **O. FRATU**, buget UPB: 861 500 lei (durata 2 ani și 10 luni: 2018-2020).

3. „Sistem informatic integrat pentru managementul activităților (SIIMA)”, contract (grant) nr. 8Sol/2018, proiect de cercetare PN3 de tip Solutii, Responsabil de proiect UPB: Prof. **O. FRATU**, buget UPB: 800 000 lei (durata 3 ani: 2018-2021).
4. „Platforma Software integrata pentru analiza malware a terminalelor mobile (ToR-SIM)”, contract (grant) nr. 5Sol/2017, proiect de cercetare PN3 de tip Solutii, Director de proiect și coordonator UPB: Prof. **O. FRATU**, buget UPB: 1 980 000 lei (durata 3 ani: 2017-2020).
5. “eWALL for Active Long Living (eWALL)”, contract (grant) nr. 262EU/2014, proiect de cercetare suport PNCDI II de tip Capacități, Director de proiect și coordonator UPB: Prof. **O. FRATU**, buget UPB: 556014,82 lei (durata 3 ani: 2014-2016).
6. “Investigation of the cosmic radiation in the Universe using advanced techniques (CORONA)”, contract (grant) nr. 194/2012, proiect de cercetare PNCDI II de tip parteneriat (coordonator: IFIN-HH, participanți: UPB, Univesitatea București, IIS), Responsabil UPB: Prof. **O. FRATU**, buget UPB: 460000 lei (durata 4 ani: 2012-2016).
7. „Evoluția, modalitățile de implementare și de tranziție pentru radiodifuziunea digitală DVB în condițiile de utilizare eficientă a spectrului de frecvențe”, contract (grant) nr. 106/08.08.2011, proiect de cercetare tip „Termeni de referință”, beneficiar MCSI (coordonator UPB, participant ICI), Director de proiect și coordonator UPB: Prof. **O. FRATU**, buget total 1000000 lei, din care UPB: 750000 lei (durata 3 ani: 2011-2013).
8. “Sisteme de detecție pentru radiația cosmică folosind noi tehnologii (DETCOS)”, contract (grant) nr. 82-104/01.10.2008, proiect de cercetare PNCDI II de tip parteneriat (coordonator: IFIN-HH, participanți: UPB, Univesitatea București), Responsabil UPB: Prof. **O. FRATU**, buget UPB: 311109 lei (durata 3 ani: 2008-2011).
9. “Sistem de acces wireless hibrid cu adresare unică (SAWHAU)”, contract (grant) nr. 12-126/01.10.2008, proiect de cercetare PNCDI II de tip parteneriat (coordonator: UPB, participanți: ICI, Beia Consult International SRL, Agenția Spațială Română, Univesitatea Pitești), Director de proiect și coordonator UPB: Prof. **O. FRATU**, buget total 2000000 lei, din care UPB: 1070000 lei (durata 3 ani: 2008-2011).
10. “Aplicatii si servicii noi de navigatie si localizare satelitara bazate pe tehnologia WiMAX - LOCOMAX”, contract (grant) nr. 81-026/14.09.2007, proiect de cercetare PNCDI II de tip parteneriat (coordonator: Agenția Spațială Română, participanți: UPB, Beia Consult International SRL, UTI, AccessNet), Responsabil UPB: Prof. **O. FRATU**, buget UPB: 193000 lei (durata 3 ani: 2007-2010).
11. “Sistem informatic pentru analiza in timp real a factorilor de risc pentru mediu si sanatate publica (TERRA-RO)”, contract (grant) nr. 11-054 / 18.09.2007, proiect de cercetare PNCDI II de tip parteneriat (coordonator: Beia Consult International SRL, participanți: UPB, ICPE-CA, Agenția Spațială Română, CEPROCIM, OMG, GTZ), Responsabil UPB: Prof. **O. FRATU**, buget UPB: 174740,75 lei (durata 3 ani: 2007-2010).
12. „NEM-RO (PLATFORMA TEHNOLOGICA INTEGRATA, IN DOMENIUL NETWORKED AND ELECTRONIC MEDIA, SUSTENABILA PE TERMEN LUNG SI RACORDATA LA PLATFORMA TEHNOLOGICA EUROPEANA NEM)” Contract de cercetare de excelență (grant), nr 240/2006 (coordonator general: Beia Consult Intrnational SRL, participanți: UPB, ASE, ICIA, Biblioteca Academiei), Modul III, Responsabil UPB: Prof. **O. FRATU**, buget UPB: 25500 lei (durata 2 ani: 2006-2007).
13. “Aplicarea tehnologiei software radio în dezvoltarea interfețelor de comunicație digitale mobile de bandă largă și foarte largă”, contract de cercetare (grant) tip A UPB - CNCIS, nr 40528/05.11.2003, tema 29, cod CNCIS 9 , Responsabil **O. FRATU**, durata 3 ani, 2003-2005.