

## Europass Curriculum Vitae

### Informatii personale

Nume / Prenume **Dolea Paul**  
Adresa **Str. Ioan Ratiu nr4, Cluj-Napoca (Romania)**  
Tel.mobil **0740032187**  
E-mail **[paul.dolea@yahoo.com](mailto:paul.dolea@yahoo.com) , [paul.dolea@bitnet.info](mailto:paul.dolea@bitnet.info)**  
Nationalitate **Romana**  
Data nasterii **06/06/1957**  
Pagina personala web **[www.spacesignals.blogspot.com](http://www.spacesignals.blogspot.com)**

### Locul de munca dorit

UTCN, Facultatea ETTI, Departamentul Comunicatii, sef lucrari, poz.43

### Domenii de competenta

Inginerie electronica, Cercetare, Educatie, Metrologie, Radio Science, Astronomie

### Experienta profesionala

Perioada	01/01/2003 -
Ocupatia sau pozitia ocupata	Cercetator stiintific
Principalele activitati si responsabilitati	Proiectare si testare a unor echipamente de cercetare prototip, instalarea si intretinerea echipamentelor de telecomunicatii prin satelit VSAT.
Numele si adresa angajatorului	S.C. BITNET CCSS SRL str.Madach nr6, Cluj-Napoca, Romania
Sector de activitate	Cercetare si dezvoltare
Perioada	01/01/2012 -
Ocupatia sau pozitia ocupata	Cadru didactic asociat
Principalele activitati si responsabilitati	Activitate didactica cu studenti, in cadrul cursului Microunde.
Numele si adresa angajatorului	Universitatea Tehnica din Cluj-Napoca Str. G. Baritiu Nr. 26-28, Cluj-Napoca
Sector de activitate	Invatamant superior
Perioada	30/08/1983-31/12/1992
Ocupatia sau pozitia ocupata	Coordonator al activitatii de metrologie, metrolog verificator (Marimi electrice si Timp-frecvente)
Principalele activitati si responsabilitati	Coordonare si asigurare metrologica, verificari metrologice, conducerea activitatilor din laboratoarele de metrologie proiectare de echipamente de telecomunicatii prototip
Numele si adresa angajatorului	DIRECTIA DE RADIO SI TELEVIZIUNE CLUJ str. Fagului nr.2, Cluj-Napoca, Romania
Sector de activitate	Metrologie aplicata, proiectare echipamente electronice prototip.
Perioada	01/09/1982-30/08/1983
Ocupatia sau pozitia ocupata	Profesor de fizica
Principalele activitati si responsabilitati	Predarea fizicii la clase de gimnaziu si liceu
Numele si adresa angajatorului	Scoala generala Ceanu Mare, jud. Cluj
Sector de activitate	Invatamant



## Educatie si formare

Perioada 01/10/2009 – 16/09/2016  
Titlul sau calificarea obtinuta Doctor in inginerie electronica si telecomunicatii  
Titlul tezei de doctorat Contributii la studiul undelor electromagnetice de joasa frecventa. Posibilitati de receptie si aplicatii  
Numele si tipul organizatiei care a asigurat scolarizarea Universitatea Tehnica din Cluj-Napoca  
Str. G. Baritiu Nr. 26-28, Cluj-Napoca

Perioada 01/10/1978-30/06/1982  
Titlul sau calificarea obtinuta Master in Fizica  
Numele si tipul organizatiei care a asigurat scolarizarea Universitatea Babes-Bolyai Cluj-Napoca  
Str. Kogalniceanu nr.1, Cluj-Napoca

**Aptitudini si competente personale** Electronica aplicata, predarea stiintelor exacte, metrologie aplicata, Radio Science, Radioastronomie, proiectare,

## Limbi straine cunoscute

European level (*)	Intelegere				Vorbire				Scriere	
	Ascultare		Citire		Participare la conversatie		Discurs oral		Exprimare scrisa	
<b>Engleza</b>	B1	Independent user	B1	Independent user	B1	Independent user	B1	Independent user	B1	Independent user
<b>Franceza</b>	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user
<b>Maghiara</b>	B1	Independent user	B1	Independent user	B1	Independent user	B1	Independent user	B1	Independent user

(\*) Common European Framework of Reference (CEF) level

**Competențe și abilități sociale** Sunt o persoana dinamica cu aptitudini de comunicare foarte bune. Sunt deschis la idei noi si ma adaptez foarte bine la lucrul in echipa. Sunt initiatorul si fondatorul Scolii de vara "Generatia urmatoare-Marisel", avand ca scop initierea adolescentilor si a tinerilor studenti in tehnologii si activitati spatiale.

**Competențe și abilități tehnice** Inginerie electronica, Activitati educationale si de cercetare in stiinte ingineresti, Metrologie aplicata, Radio Science, Radioastronomie, Astronomie

**Competențe și aptitudini de utilizare a calculatorului** Utilizator avansat al programelor Microsoft MS-DOS

**Permis de conducere** B

**Cercetare** Proiecte de cercetare stiintifica:

1. **Rețea de antenă retro-directivă compactă destinată sistemelor wireless, în benzile specifice protocoalelor de comunicație IEEE 802.11., IEEE 802.16** . Proiect finantat cu 4.500.000 lei de UEFISCDI; beneficiar Serviciul Roman de Informatii. Coordonator UTCN; parteneri: BITNET CCSS si CDS.

2. **TELEGAL (2015-2016)** Proiect finanțat de ESA (European Space Agency)-Posibilitățile de determinare prin metode optice a pozițiilor unghiulare ale sateliților de navigație Galileo

3. **CHEIA ANTENNA RETRIFIT (2015-2016)** Proiect finanțat de ESA - Reutilizare a antenelor parabolice de 32m de la stația sol pentru comunicații cu sateliți artificiali de la Cheia

4. **AMHEOS (2012-2016)** Automatic Medium and High Earth Orbit Observation System Based on Stereovision. Proiectul este finanțat de UEFISCDI -Observarea stereoscopică a obiectelor spațiale cu

orbite circumterestre medii sau înalte.

5. **SIM-SCP** (2015-2016) Proiect internațional România-Norvegia. Realizarea unui sistem integrat de culegere și transmitere a datelor provenite din monitorizarea substanțelor chimice periculoase
6. **GENDARED** (2016-2017) Proiect finanțat de ESA -Dezvoltarea și validarea unui program de prelucrare automată a imaginilor, necesar în programul ESA de supraveghere a spațiului cosmic
7. **RAMA** 2012-2014 Experimental Weak Radio Signals Monitor for Ionospheric Disturbances Analysis
8. **GENSO** (2011 - 2012): "The development of one GENSO ground station in Cluj-Napoca" represents the Romanian contribution in the development of a worldwide network for LEO satellite operations.
9. **LEOSCOPE** (2008-2011): The "Experimental Low Earth Orbit Surveillance Stereoscope
10. **MARCH** - Multilink Architecture for Multiplexed Services (2008-2011)
11. **COSMOS** (2007-2009): S-band mobile space communication platform for LEO nano-satellites
12. **URSA** (2007-2010): A joint project targeting the development of a ground-based electro-optic and radio deep space surveillance facility in Romania
13. **PLURIBUS** (2007-2010) regarding co-orbital clusters of Nano-satellites operating in a networked environment.
14. **FORMUAV** (2007-2010) regarding Unmanned Aerial Vehicles flying in a networked environment
- DOG** (2005-2006): A preparatory project supporting the development of the first Romanian satellite surveillance facility
15. **HOTSAT** (2005-2008): a joint project that will explore satellite hotspot technologies and their applications
16. **GOLIAT** (2005-2008) GOLIAT is the first microsatellite that will be operated by Romania
17. **SCANSAT** (2004-2006): A multi-band radio telescope for satellite detection and broadcasts analysis
18. **PORTASAT** (2003-2005): A joint development project targeting the development of satellite telecom applications for the Romanian building industry

#### Cărți

1. Andra PĂSTRĂV, Tudor PALADE, Emanuel PUȘCHIȚĂ, Paul DOLEA, Paul Vlăduț DASCĂL, **ÎNTREBĂRI ȘI PROBLEME DIN TEHNICA MICROUNDELOR**, Editura U.T.PRESS, Cluj-Napoca, 2017, ISBN 978-606-737-250-2
2. Paul DOLEA – **PĂMÂNTUL, ÎN PERICOL?** ISBN 978-973-0-23634-7 EDIȚIE TIPĂRITĂ (164 pagini), Cluj\_Napoca, 2017 (Popularizarea științelor planetare și a activităților spațiale în context educațional)

#### Publicații științifice și prezentări la simpozioane și conferințe (selectie)

1. Paul DOLEA, Vlad DASCAL, Tudor PALADE, Octavian CRISTEA, "Low-Cost Prototype Equipment for VLF Radio Wave Monitoring", Acta Technica Napocensis Magazine, Volume 52, No. 4/2011, ISSN 1221-6542
2. Paul Dolea, Octavian Cristea, Paul Vladut Dascal, Tudor Palade- 4<sup>th</sup> of January 2011 solar eclipse induced disturbances in VLF radio waves propagation. TELSIS 2011 International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Services- Proceeding of Papers
3. Paul Dolea, Octavian CRISTEA, Vlad DASCAL, Tudor PALADE, "VLF radio wave monitoring equipment for educational purposes", Extended Book of Abstracts for 36<sup>th</sup> International Spring Seminar on Electronics Technology, ISSE 2013, Alba-Iulia, Romania, ISBN 978-606-613-064-6, pp. 212-216
4. Paul DOLEA, Vlad DASCAL, Octavian CRISTEA, Tudor PALADE, "In-situ measurements regarding LF radio wave propagation using DCF77 time signal transmitter", IEEE Proceedings for International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Services, TELSIS 2013, Nis, Serbia, Vol. 2, pp. 449 – 452, Indexat IEEE Xplore: doi: [10.1109/TELSIS.2013.6704418](https://doi.org/10.1109/TELSIS.2013.6704418)
5. Paul Dolea, Paul-Vladut Dascal, Tudor Palade, Octavian Cristea- Aspects regarding the use of LF radio transmitters for time dissemination- ISTECS 2014-11<sup>th</sup> International Symposium on Electronics and Communications, Timisoara, Romania- november 14-15, 2014
6. Paul Dolea, Paul Vladut Dascal, Octavian Cristea, "Science camp for teenagers: An interdisciplinary education and outreach programme in the field of astronomy and space technologies", Book of Abstracts in "Challenges in Astronomy, Astrophysics and Space Science" Symposium – Cluj Academic Days, Cluj-Napoca, 2014
7. Paul Dolea, Vlad Dascal, Octavian Cristea, - Six days science camp for educating teenagers in the field of astronomy and space technologies- Romanian Space Week Symposium, 12-16 may 2014
8. Paul Dolea, Paul Vladut Dascal- Summer school in the field of Space Technologies: A novel

approach for teenage education- Geophysical Research Abstracts Vol. 16, EGU2014-5682-3, 2014 EGU General Assembly

9. Paul Dolea, Octavian Cristea, Paul Vladut Dascal, Irene Adelina Moldovan, Pier Francesco Biagi - **Aspects regarding the use of the INFREP network for identifying possible seismic precursors**- Physics and Chemistry of the Earth -in press, Available online 4 June 2015 <http://www.sciencedirect.com/science/article/pii/S1474706515000698>  
doi:10.1016/j.pce.2015.05.010

10. Paul Dolea, Vladut Dascal, Octavian Cristea – **ESERO Romania activities: training course for highschool teachers to promote space education** – “International Year of Light 2015-Astronomical perspectives” Symposium, Cluj Academic Days, Cluj-Napoca, 2015

11. Iren-Adelina Moldovan, Victorin Toader, Paul Dolea, and Pier Francesco Biagi - **Disturbances of the VLF/LF radio signal reception at Dobrogea Seismological Observatory due to local abnormal electric activity** - Geophysical Research Abstracts Vol. 17, EGU2015-14080-2, 2015

12. I.A. Moldovan, A.P. Constantin, P.F. Biagi, D. Toma Danila, A.S. Moldovan, P. Dolea, V.E. Toader, T. Maggipinto - **The Development of the Romanian VLF/LF Monitoring System as Part of the International Network for Frontier Research on Earthquake Precursors (INFREP)** – Romanian Journal of Physics, Volume 60, Number 7-8, 2015, pp.1203-121710.

13. Viad DASCAL, Tudor PALADE, Octavian CRISTEA, Paul DOLEA, “**Educational VHF/UHF ground station for university satellite missions**”, Extended Book of Abstracts for 36<sup>th</sup> International Spring Seminar on Electronics Technology, ISSE 2013, Alba-Iulia, Romania, ISBN 978-606-613-064-6, pp. 214-216.

14. Iren-Adelina Moldovan, Angela Petruta Constantin, Victorin Emilian Toader, Dragos Toma-Danila, Pier Francesco Biagi, Tommaso Maggipinto, Paul Dolea, Adrian Septimiu Moldovan- **The development of the International Network for Frontier Research on Earthquake Precursors (INFREP) by designing new analysing software and by setting up new recording locations of radio VLF/LF signals in Romania**- Geophysical Research Abstracts, Vol. 16, EGU2014-5206-1, 2014 EGU General Assembly

15. Vlad DASCAL, Paul DOLEA, Octavian CRISTEA, Tudor PALADE,” **Low-Cost SDR-Based Ground Receiving Station for LEO Satellite Operations**”, IEEE Proceedings for International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Services, TELSIKS 2013, Nis, Serbia, Vol.2, pp. 627 – 630. Indexat IEEE Xplore: doi: [10.1109/TELSIKS.2013.6704456](https://doi.org/10.1109/TELSIKS.2013.6704456)

16. Radu Danescu, Anca Ciurte, Florin Oniga, Octavian Cristea, Paul Dolea, Vlad Dascal, Vlad Turcu, Liviu Mircea, Dan Moldovan, „**SURVEILLANCE OF MEDIUM AND HIGH EARTH ORBITS USING LARGE BASELINE STEREOVISION**”, TIM-13 Physycs Conference, Timisoara, 2013. Propus spre indexare AIP-CP

17. Nicolae Mihail Toncea, Andrei Stan, Octavian Cristea, Paul Dolea- **A progres report on developing a national space strategy in Romania- Challenges in Astronomy, Astrophysics and Space Science Symposium**- Cluj-Napoca, Romania- may 29-30, 2014

18. Paul-Vladut Dascal, Paul Dolea, Tudor Palade, Octavian Cristea - **Characterization of LEO satellites trough ground-based Doppler observations**- ISTEK 2014-11<sup>th</sup> International Symposium on Electronics and Communications, Timisoara, Romania- november 14-15, 2014

19. Octavian CRISTEA, Paul DOLEA, Vlad DASCAL, Tudor PALADE, “**Preliminary Results in Developing a Romanian Radio Propagation Station for X-Rays Flares Induced Ionospheric Disturbances Monitoring**”, Conference proceedings 3: Applied Technical Sciences and Advanced Military Technologies for 19<sup>th</sup> International Conference “Knowledge Based Organization”, Sibiu, Romania,2013, ISSN 1843-6722, pp. 66-70.

20. Octavian Cristea, Paul Dolea, Vlad Turcu, Radu Danescu -**Long baseline stereoscopic imager for close to Earth objects range measurements** - Acta Astronautica, Volume 90, Issue 1, September 2013, Pages 41-48

21. Vlad DASCAL, Paul DOLEA, Tudor PALADE, “**A Software-Defined Approach for APT Weather Satellite Monitoring**”, Conference proceedings 3: Applied Technical Sciences and Advanced Military Technologies for 19<sup>th</sup> International Conference “Knowledge Based Organization”, Sibiu, Romania,2013, ISSN 1843-6722, pp. 71-76.

22. Octavian Cristea, Paul Dolea, Tiberiu Oproiu, Vlad Turcu- **Developing an Experimental Multi-Band Orbital Activity Surveillance Sensor System in Romania-The SESAM Project-NATO-RTO-MP-RTB-SPSM-001**

23. Octavian Cristea, Paul Dolea, Paul Vladut Dascal- **S-band ground station prototype for low earth orbit nanosatellite mission**. Telecomunicatii nr.2/2009 Editura AGIR

24. Octavian Cristea, Paul Dolea- **Ultra-Wide Field of view Stereoscope for Low Earth Orbits Surveillance** Advanced, Maui Optical and Space Surveillance Technologies Conference, Maui, Hawaii, 2009. AMOS Abstracts.

25. Vlad DASCAL, Paul DOLEA, Tudor PALADE, Octavian CRISTEA, “**The Development of One GENSO Ground Station in Cluj-Napoca**”, Acta Technica Napocensis Magazine, Volume 52, No.

4/2011, ISSN 1221-6542.

26. Vlad DASCAL, Paul DOLEA, Octavian CRISTEA, Tudor PALADE, "Improved VHF Ground Station For NOAA Weather Satellite APT Image Reception", Acta Technica Napocensis, Vol. 53, No. 3/2012, ISSN 1221-6542, pp. 1-7.

DATA: 8 iunie 2017

Semnatura,

A handwritten signature in blue ink, appearing to be 'P. Dolea', written in a cursive style.