



PERSONAL INFORMATION

Vasile Florian Pais

- 📍 Str. Barsei, 3C, ap 1, 500481 Brasov (Romania)
- ☎ +40721678357
- ✉ vpais@dx.com

POSITION

Computing professional

WORK EXPERIENCE

- 2018–Present **Scientific researcher**
ICIA, Bucharest (Romania)
 - participation in research projects RETEROM, CoRoLa, Marcell
 - development of Romanian word embeddings, named entities recognition system
 - author of scientific research papers, participation at scientific conferences
- 01/2018–Present **Senior application developer**
DXC, Bucharest (Romania)
 - Java based application development
 - Modules development for JBoss ESB
 - Communication with Oracle database
 - Identification of application issues by monitoring server logs, using Linux, connection to Amazon Cloud
- 01/10/2004–2018 **Scientific Researcher III (previously Research Assistant, Scientific Researcher)**
National Institute for Laser, Plasma and Radiation Physics (INFLPR), Magurele (Romania)
 - Implementation of videoconferencing and remote participation system for plasma fusion experiments (using H.323, VRVS, VNC, MDSPLUS)
 - Development of application modules using C/C++, Java
 - Portal implementation and development for fusion research, using JBoss Application Server, Shibboleth, PHP modules, C++ modules, communication with a large hardware cluster for interactive plasma simulations
 - Participation in national and international research projects
 - Project director for one of the projects in the international programme EURATOM
 - Author of scientific research papers, participation at scientific conferences
 - Development of web platform for schools: IBEST "Inquiry based education in science and technology"
- 01/09/2009–2017 **Software Engineer**
SC ESSENTIAL SYSTEMS SRL, SC I-CLAIMS SA, SC Cloud Research Studio SRL, Bucuresti (Romania)
 - Development of application modules using C/C++, C#, PHP, JavaScript, HTML, CSS
 - Parallel programming using CUDA for nVidia GPUs
 - Solution and application architecture design
 - Development using Big Data databases like MongoDB
 - Used Gforge and Redmine for task management
 - Development of communication enabled applications using Web Services and custom protocols

- Research project Director "Sistem inovativ bazat pe inteligenta artificiala pentru gestionarea si evaluarea daunelor si necesarului de reparatii din domeniul asigurarilor auto - ISAIA"
- Adaptation of INTEMA platform developed at Essential Systems / Cloud Research Studio for auto insurance industry
- Development of Artificial Intelligence modules for Natural Language Processing

- 2016–2017 IT Security Consultant
SC INTELSECO SRL, Bucuresti (Romania)
- participating in creating audit plans for IT security
 - applying specific methods for auditing: questionnaire, discussions, documentation analysis, performing network tests
 - identification of specific problems related to network equipments
 - using hardware and software tools for testing network security
 - audit reports and recommendations

EDUCATION AND TRAINING

- 11/2015–Present Doctorand in cadrul Școlii de Studii Avansate a Academiei Române,
conducator doctorat Acad. Dan Tufis
Academia Romana, Institutul de Cercetari pentru Inteligenta Artificiala
- 2006–2008 Master E-Business
Academia de Studii Economice, Facultatea de Cibernetica, Statistica si Informatica
Economica
- 03/2008 Sustinerea lucrarii de dizertatie la Masterul de E-Business; Tema
lucrarii: "Utilizarea serviciilor web pentru facilitarea comunicarii intre
firme", coordonator: Prov. Univ. Dr. Floarea Nastase
Academia de Studii Economice, Facultatea de Cibernetica, Statistica si Informatica
Economica
- 2001–2006
Universitatea Politehnica Bucuresti, Facultatea de Automatica si Calculatoare, sectia
Calculatoare
- 06/2006 Inginer Diplomat, in profilul "Știința sistemelor și a calculatoarelor",
specializarea "Calculatoare"; Tema lucrarii de diploma: "Sistem de
control al accesului la Internet"
Universitatea Politehnica Bucuresti, facultatea Automatica si Calculatoare
- 1997–2001
Highschool "C.A. Rosetti", informatics, Bucuresti (Romania)
- 03/05/2001 Atestat "Advanced French Language", Ministerul Invățământului
- 21/05/2001 Atestat profesional de Informatică, acordat de Ministerul Educației
- 06/08/2002 Certificare CISCO Certified Network Associate (CCNA)
- 01/09/2013 Atestat de Competenta Lingvistica la Limba Franceza, acordat de



Departamentul de Limbi Moderne din cadrul Universitatii Politehnica Bucuresti

- 12/06/2004–30/09/2004 Curs CISCO CCNP - Advanced Routing
- 30/10/2004–10/06/2005 Curs CISCO CCNP - Remote Access
- 06/2005 Certificat terminare curs in cadrul "ORACLE Academic Initiative"
- 03/08/2005 Certificare CISCO CCNP - BCRAN (Building CISCO Remote Access Networks)
- 04/2012 SailLabs, LMT - Language Model Toolkit & MMS Administration
- 01/2015 VMware VSP 5.5
- 01/2015 VMware VTSP 5.5
- 11/09/2017–17/09/2017 Formator
Extreme Training
Curs formator de formatori, cu trainer-ul Dan Lambescu.

PERSONAL SKILLS

Mother tongue(s) Romanian

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
engleza	C2	C2	C2	C2	C2
French	C2	C2	C1	C1	C1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Digital skills

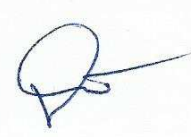
SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem-solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Digital skills - Self-assessment grid

- Operating systems: Microsoft Windows, Linux
- Programming languages: Java, C/C++; C#; PHP; HTML/XHTML; JavaScript; XML; XSL; WSDL
- Relational databases: Microsoft SQL Server; Oracle; MySQL; PostgreSQL
- Non-relational databases: MongoDB; Cassandra; Redis
- Network security

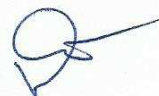
Driving licence B

ADDITIONAL INFORMATION



Lucrări științifice publicate

- "RACAI's System at PharmaCoNER 2019", Ion R., Păiș, V., Mitrofan, M., EMNLP-IJCNLP 2019, BioNLP Open Shared Tasks 2019, 4 November 2019, Hong-Kong, <https://2019.bionlp-ost.org/>
- "Little strokes fell great oaks. Creating CoRoLa, the reference corpus of contemporary Romanian", Tufiş, D., Mititelu, V.B., Irimia, E., Păiș, V., Ion, R., Diewald, N., Mitrofan, M., Onofrei, M., In RRL Special Issue, *in press*
- "Integration of Romanian NLP tools into the RELATE platform", Păiș, V., Tufiş, D., Ion, R., In *Proceedings of the International Conference on Linguistic Resources and Tools for Processing Romanian Language - CONSILR 2019, in press*
- "More Romanian word embeddings from the RETEROM project", Pais, V., Tufis, D., In *Proceedings of the International Conference on Linguistic Resources and Tools for Processing Romanian Language - CONSILR 2018*, pp 91-100
- "Tools and resources for Romanian text-to-speech and speech-to-text applications", Boros, T., Dumitrescu, S.D., Pais, V., In *Proceedings of the International Conference on Human-Computer Interaction - RoCHI 2018*, pp 46-53
- "Computing distributed representations of words using the COROLA corpus", Pais, V., Tufis, D., In *Proceedings of the Romanian Academy, Series A, Volume 19, Number 2/2018*, pp. 403-409
- "MARCONI-FUSION: The new high performance computing facility for European nuclear fusion modelling", F.Iannone, G.Bracco, C.Cavazzoni, R.Coelho, D.Coster, O.Hoenen, A.Maslennikov, S.Migliori, M.Owsiak, A.Quintilliani, B.Palak, V.Pais, F.Robin, E.Rossi, I.Voitsekhovitch, 2018, *Fusion Engineering and Design*, Vol 129, Pages 354-358, 2018
- "Recent EUROfusion Achievements in Support of Computationally Demanding Multiscale Fusion Physics Simulations and Integrated Modeling", I. Voitsekhovitch, R. Hatzky, D. Coster, F. Imbeaux, D. C. McDonald, T. B. Fehér, K. S. Kang, H. Leggate, M. Martone, S. Mochalsky, X. Sáez, T. Ribeiro, T.-M. Tran, A. Gutierrez-Milla, T. Aniel, D. Figat, L. Fleury, O. Hoenen, J. Hollocombe, D. Kaljun, G. Manduchi, M. Owsiak, V. Pais, B. Palak, M. Plociennik, J. Signoret, C. Vouland, D. Yadykin, F. Robin, F. Iannone, G. Bracco, J. David, A. Maslennikov, J. Noé, E. Rossi, R. Kamendje, S. Heurax, M. Hölzl, S. D. Pinches, F. Da Silva & D. Tskhakaya, 2018, *Fusion Science and Technology*, pp 1-12, doi: 10.1080/15361055.2018.1424483
- "Systematic studies of atomic spectra based noSQL databases", V. Pais, V. Stancalie, C. Iorga, 2017, PLASMA 2017 International Conference on Research and Applications of Plasmas, 17-22 September 2017, Warsaw, Poland
- "Atomic data for transitions in S V", V. Stancalie, V. Pais, C. Iorga, 2016, 19th International Conference on Atomic Processes in Plasmas, Atomic data and processes III-ADP.06, 4-8 April 2016, Paris, France, ATOMIC PROCESSES IN PLASMAS (APIP 2016), Book Series: AIP Conference Proceedings, Volume:1811, Article Number: UNSP 030004-1, Published: 2017
- "A study of the laser-produced aluminum plasma by means of computer simulation", C. Iorga, V. Stancalie, V. Pais, 2016, *Romanian Reports in Physics*, vol. 8(1), P. 294-304
- "R-matrix calculation of singly ionized carbon structure for x-ray laser modelling", C. Iorga, V. Pais, V. Stancalie, 2016, *Romanian Journal of Physics*, vol. 61(3), P. 435-444
- "Recent EUROfusion achievements in support to computationally demanding multi-scale fusion physics simulations and integrated modelling", I. Voitsekhovitch, R. Hatzky, D. Coster, F. Imbeaux, D. C. McDonald, T. B. Fehér, K. S. Kang, H. Leggate, M. Martone, S. Mochalsky, X. Sáez, T. Ribeiro, T.-M. Tran, A. Gutierrez-Milla, S. Heurax, M. Hölzl, S. D. Pinches, F. da Silva, D. Tskhakaya, T. Aniel, D. Figat, L. Fleury, O. Hoenen, J. Hollocombe, D. Kaljun, G. Manduchi, M. Owsiak, V. Pais, B. Palak, M. Plociennik, J. Signoret, C. Vouland, D. Yadykin, 2016, 26th IAEA Fusion Energy Conference, 17-22 October 2016, Kyoto, Japan, EUROFUSION WPISA-CP(16) 15193
- "EUROfusion Integrated Modelling (EU-IM) capabilities and selected physics applications", G. Falchetto, P. Strand, G. Vlad, D. Kalupin, M.I. Airila, A.A. Morillas, C. Boulbe, R. Coelho, D. Coster, T. Johnson, A. H. Nielsen, E. Andersson Sunden, T. Aniel, J.F. Artaud, O. Asunta, C.V. Atanasiu, M. Baelmans, V. Basiuk, R. Bilato, M. Blommaert, D. Borodin, S. Briguglio, J. Buchanan, F. Casson, G. Ciraolo, J. Citrin, S. Conroy, V. Doriæ, R. Dumont, E. Fable, B. Faugeras, J. Ferreira, L. Figini, A. Figueiredo, G. Fogaccia, C. Fuchs, K. Ghoo, E. Giovannozzi, C. Gleason-Gonzalez, V. Goloborodko, O. Hoenen, N. Horsten, P. Huynh, F. Imbeaux, I. Ivanova-Stanik, L. Kos, V. Kotov, J. Krek, C. Lechte, E.A. Lerche, R. Lohner, J. Madsen, O. Maj, G. Manduchi, M. Mantsinen, Y. Marandet, N. Marushchenko, S. Mastrostefano, R. Mayo-Garcia, P.J. Mc Carthy, A. Merle, S. Moradi, E. Nardon, W. Natorf, S. Nowak, M. O Mullane, M. Owsiak, V. Pais, B. Palak, G. Pelka, V. Pericoli-Ridolfini, M. Plociennik, G.I. Pokol, E. Poli, D. Poljak, H. Radhakrishnan, H. Reimerdes, D. Reiser, P. Rodrigues, X. Saez, D. Samaddar, O. Sauter, K. Schmid, B.D. Scott, S. ŝEsnić, J. Signoret, S.K. Sipilä, R. Stankiewicz, E. Suchkov, A. ŝUŝNjara, G. Szepesi, D. Tegnered, L. Tophøj, K. TóKési, D. Tskhakaya, J. Urban, P. Vallejos, D. Van Eester, S. Varoutis, L. Villard, F. Villone, B. Viola, E. Westerhof, D. Yadykin,



- R. Zagorski, F. Zaitsev, T. Zok, W. Zwingmann, S. AKäslompolo, 2016, 26th IAEA Fusion Energy Conference, 17-22 October 2016, Kyoto, Japan
- "Theoretical investigation of inner-shell photo-ionization X-ray lasing"*, V. Stancalie, C. Iorga, V.F. Pais, 2015, Romanian Reports in Physics, Vol. 67, No. 4, P. 1261–1270
- "High harmonics generation at the interaction of an intense fs laser pulse with an overdense plasma layer"*, A. Mihailescu, V. Stancalie, V.F. Pais, 2014, J. Phys.: Conf. Ser., Vol 508, Conf 01, 2019, doi:10.1088/1742-6596/508/1/012019
- "Fine-structure splitting calculation in the Ar III ion: comparison of perturbative (Breit-Pauli) and non-perturbative (MCDF-EAL) predictions"*, V. Stancalie, V. F. Pais, A. Mihailescu and Contributors to the EFDA-TF-ITM, 2012, THE EUROPEAN PHYSICAL JOURNAL D - ATOMIC, MOLECULAR, OPTICAL AND PLASMA PHYSICS Volume 66, Number 3, 84, DOI: 10.1140/epjd/e2012-20665-8
- "Simulation of the direct laser heating mechanisms and harmonic generation at the interaction of ultrashort laser pulses with an overdense plasma layer"*, A. Mihailescu, V. Stancalie, V.F. Pais, 2012, 39th EPS Conference on Plasma Phys., Stockholm, Sweden, 2-6 July 2012, ECA Vol 36F, P1.107 (2012)
- "New single sign-on mechanism for EFDA Integrated Tokamak Modelling Task Force portal"*, V.F. Pais and ITM-TF contributors, 2012, 39th EPS Conference on Plasma Phys., Stockholm, Sweden, 2-6 July 2012, ECA Vol 36F, P4.041 (2012)
- "Atomic collisions in plasma transport modeling of the laser-produced Cu plasma in air and in vacuum"*, A. Stancalie, A. Matea, A. Mihailescu, V. F. Pais, V. Stancalie, 2012, 39th EPS Conference on Plasma Phys., Stockholm, Sweden, 2-6 July 2012, ECA Vol 36F, P1.121 (2012)
- "Particle-in Cell simulation of high harmonics generation mechanism occurring at the interaction of ultrashort and intense laser pulses with plasma"*, A. Mihailescu, V. Stancalie, V.F. Pais, 2012, Paper presented at the International Conference on Optics, ROMOPTO 2012, Bucharest, September 3-6, 2012
- "Escape factors approximation in radiation-transfer codes"*, A. Stancalie, S. Ciobanu, V.F. Pais, A. Mihailescu, V. Stancalie, 2012, Paper presented at the International Conference on Optics, ROMOPTO 2012, Bucharest, September 3-6, 2012
- "Accessing physics data using web services"*, V. F. Pais, A. Stancalie, A. Mihailescu, V. Stancalie, 2012, Paper presented at the International Conference on Optics, ROMOPTO 2012, Bucharest, September 3-6, 2012
- "Web Services Usage in Distributed File Systems"*, V.F. Pais, 2010, Fusion Engineering and Design 85 (2010), pp. 419-422
- "Enabling remote access to projects in a large collaborative environment"*, V.F. Pais, S. Balme, H.S.Akpangny, F. Iannone, P. Strand, 2010, Fusion Engineering and Design 85 (2010), pp. 633-636
- "Recent Progress in the Theoretical Investigation of Laser-Atom, Laser-Plasma Interactions"*, V. Stancalie, V. Pais, A. Mihailescu, O. Budriga, A. Oprea, 2010, Romanian Reports in Physics 62 (2010), pp. 528-545
- "Gateway: new High Performance Computing facility for EFDA Task Force on Integrated Tokamak Modelling"*, F. Iannone, B. Guilleminet, F. Imbeaux, G. Manduchi, A. Maslennikov, V. Pais and P. Strand, 2010, Fusion Engineering and Design 85 (2010), pp. 410-414
- "Distributed Locking using Web Services"*, V.F. Pais, 2010, The Fifth International Conference on Systems and Networks Communications (ICSNC) 2010, August 22-27, Nice, France
- "Performance Issues Related to Web Service Usage for Remote Data Access"*, V.F. Pais, V. Stancalie, F.A. Mihailescu, M.C. Totolici, 2008, AIP Conf. Proc. 996, 276-280 (2008)
- "Study on electron collisions with Zn-Like W ion"*, A. Mihailescu, V. Pais, M.C. Totolici, V. Stancalie, 2008, AIP Conf. Proc. 996, 138-142 (2008)
- "Adding security to existing unsecured web services"*, V.F.Pais, V.Stancalie, 2008, TERENA Networking Conference 2008, 19-22 May 2008, Bruges, Belgium
- "Caching web service for TICE project"*, V.F. Pais, V. Stancalie, 2008, Fusion Engineering and Design, Vol 83, Issues 2-3, April 2008, pp 425-428, doi:10.1016/j.fusengdes.2007.11.008
- "Providing Secure Access to Unsecure Web Services"*, V.F.Pais, V. Stancalie, 2008, IEEE Xplore Digital Library, IEEE CNF, ISBN: 978-0-7695-3329-2, pages 161-164, doi:10.1109/SECURWARE.2008.69, SECURWARE 2008, August 25-31, 2008 - Cap Esterel, France
- "Parametrisation of 2pns(1p0) Resonance Structures in C2+"*, V. Stancalie, V. Pais, 2008, 35th EPS Conference on Plasma Phys. Hersonissos, 9 - 13 June 2008 ECA Vol.32D, P-1.124 (2008)
- "Spectroscopic studies of laser induced aluminium and copper plasmas in air"*, S.S. Ciobanu, C.



- Negutu, M. Stafe, I. Vladoiu, V.F. Pais, V. Stancalie, N.N. Puscas, 2008, 35th EPS Conference on Plasma Phys. Hersonissos, 9 - 13 June 2008 ECA Vol.32D, P-5.144 (2008)
- "Forbidden transitions in excitation by proton impact in Li-like Al ions"*, V. Stancalie, V. Pais, M. Totolici, A. Mihailescu, 2007, Laser and Particle Beams, Volume 25, Issue 2, June 2007, pp 267-275
- "Performance Issues Related to Web Service Usage"*, V. Pais, V. Stancalie, 2007, TNC2007, Terena Networking Conference, Lyngby, Denmark, 21-24 May 2007
- "Caching Web Service for TICEF Project"*, V. Pais, V. Stancalie, 2007, 6th IAEA Technical Meeting on Control, Data Acquisition and Remote Participation for Fusion Research, 4-8 June 2007, Inuyama, Japan
- "Using WebServices for Remote Data Access and Distributed Applications"*, V. Pais, V. Stancalie, 2006, Fusion Engineering and Design (FED), Volume 81, Issues 15-17, July 2006, Pages 2013-2017
- "Effective collision strengths for electron-impact excitation of Al¹⁰⁺"*, V. Stancalie, V. Pais, 2006, "Laser and Particle Beams", Volume 24, Issue 02, June 2006, pp 235-240
- "Forbidden transitions in excitation by proton impact in Al Li-like ions"*, V. Stancalie, V. Pais, M. Totolici, A. Mihailescu, 2006, IAMP12006, International Conference on the "Interaction of Atoms, Molecules and Plasmas with Intense Ultrashort Laser Pulses?", 1-5 October, 2006 - Szeged, Hungary
- "Development of remote participation environment in fusion research"*, V. Pais, V. Stancalie, 2006, TNC2006, Terena Networking Conference, Catania, Italy, 15-18 May 2006
- "Effective collision strengths for electron-impact excitation of Li-like Al"*, V. Stancalie, V. Pais, A. Mihailescu, A.R.D.Chelmus, 2005, 32nd EPS Conference on Plasma Phys. Tarragona, 27 June - 1 July 2005 ECA Vol.29C, P-4.156 (2005)
- "Atomic data for Zn-like W ion as related to the plasma modeling"*, A.Mihailescu, V. Stancalie, A.R.D. Chelmus, V. Pais, 2005, 32nd EPS Conference on Plasma Phys. Tarragona, 27 June - 1 July 2005 ECA Vol.29C, P-4.157 (2005)
- "Using WebServices for Remote Data Access and Distributed Applications"*, V. Pais, V. Stancalie, 2005, Fifth IAEA Technical Meeting on Control, Data Acquisition and Remote Participation for Fusion Research, 12-15 July 2005, Budapest, Hungary

- Memberships
- Membru IEEE (2009-prezent)
 - Membru IEEE Computer Society (2009-prezent)
 - Membru IEEE Cloud Computing Community (2012-prezent)
 - Membru IEEE Computer Society Technical Community on e-Government (2013-prezent)
 - Membru IEEE Communications Society (2009, 2013)

