Europass
CURRICULUM VITAE

INFORMATII PERSONALE

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PROFESIA / OCUPATIA ACTUALA

Pozitia	Professor in Stiinta Calculatoarelor si Tehnologia Informatiei
	Conducator de doctorat in domeniul Calculatoare si Tehnologia Informatiei.
	Coordonator al Laboratorului de Grafica pe Calculator si Sisteme Interactive (CGIS), http://cgis.utcluj.ro
Loc de munca	Departamentul Calculatoare, Universitatea Tehnica din Cluj-Napoca
Profesia	Inginer, Specializarea Automatizari şi Calculatoare
Activitate principala	Activitati didactice şi de cercetare
Conducator de doctorat	Domeniul Calculatoare şi Tehnologia Informatiei

EDUCATIE ŞI STUDII

Perioada	1996 - 1997
Numele si tipul institutiei	Informatics Department, Rutherford Appleton Laboratory (RAL), UK
Domeniul de studiu	Cercetare postoctorat cu prof. David Duce in Departamentul Informatica, Institutul de cercetari Rutherford Appleton Laboratory, UK, in domeniul Interfete utilizator grafice si Sisteme multimedia.
Tipul calificarii/Diploma obtinuta	Bursier la European Research Consortium for Informatics and Mathematics (ERCIM), cercetare postoctorat
Specializarea	Interfete utilizator grafice si Sisteme multimedia
Perioada	1990 - 1994
Numele si tipul institutiei	Universitatea Tehnica din Cluj-Napoca
Domeniul de studiu	Cercetare doctorala in domeniul Modelare si simulare grafica, Programare vizuala şi Interfete utilizator grafice.
Tipul calificarii/Diploma obtinuta	Doctor inginer (1994)
Specializarea	Programare vizuala şi Interfete utilizator grafice
Perioada	1975 - 1980
Numele si tipul institutiei	Universitatea „Politehnica" din Timisoara, Facultatea de Automatica şi Calculatoare
Domeniul de studiu	Student
Tipul calificarii/Diploma obtinuta	Inginer in Automatizari şi Calculatoare (1980)
Specializarea	Automatizari si calculatoare

EXPERIENTA PROFESIONALA

Perioada	1983 – in prezent
Functia sau pozitia ocupata	Profesor (din 1998), Conferentiar (1995-1998), Sef de lucrari (1990-1995), Asistent universitar (1983-1990), Inginer cercetator (1982-1983)
Numele si adresa angajatorului	Universitatea Tehnica din Cluj-Napoca, Departamentul Calculatoare

Tipul activitatii sau departamentul	Activitati educationale si de cercetare in Stiinta Calculatoarelor si Tehnologia Informatiei
	Titularul cursurilor: Elements of computer assisted graphics (2cs, Grafica asistata de calculator (2cti), Graphic processing systems (3cs), Sisteme de prelucrare grafica (3cti), User interface design (4cs2), Realitate virtuala (m2iva), Sisteme interactive (m1)
Perioada	2001 – 2003
Functia sau pozitia ocupata	Management proiecte, Proiectare tehnica a produselor, Metodologia de dezvoltare software in domeniul Location Based Services (LBS), Geographical Information Systems (GIS) si, Wireless Applications in proiecte ale Autodesk si Fiat (Alfaromeo) si, TIM Italy.
Numele si adresa angajatorului	Autodesk Inc
Tipul activitatii sau departamentul	Consultanta stiintifica si tehnica
Perioada	1980 - 1982
Functia sau pozitia ocupata	Inginer cercetator in domeniul proiectarii software si hardware
Numele si adresa angajatorului	Intreprinderea pentru Electronica Industriala si Automatizare (IEIA), Cluj-Napoca, Universitatea Tehnica din Cluj-Napoca
Tipul activitatii sau departamentul	Testarea circuitelor digitale si, prelucrarea si comunicarea datelor

ACTIVITATE STIINTIFICA

Domenii stiintifice de interes	Arhitecturi HPC (High Performance Computation), prelucrare si vizualizare grafica, tehnici de interactiune om-calculator, interfete utilizator grafice, aplicatii interactive distribuite, dezvoltarea aplicatiilor si platformelor software in domeniul Earth Science, realitate virtuala, realitate imbunatatita, prelucrarea si vizualizarea datelor spatiale masive.
Publicatii (20 lucrari reprezentative)	1. Gorgan D., Vaduvescu O., Stefanut T., Bacu V., Sabou A., Copandean D., Nandra C., Boldea C., Boldea A., Predatu M., Pinter V., Stanica A., Nearby Platform for Automatic Asteroids Detection and Euronear Surveys. *Proc. 1st NEO and Debris Detection Conference*, Darmstadt, Germany, 22-24 January 2019, published by the ESA Space Safety Programme Office Ed. T. Flohrer, R. Jehn, F. Schmitz, (2018).
	2. Stefanut T., Bacu V., Nandra C., Balazs D., Gorgan D. and Vaduvescu O., NEARBY Platform: Algorithm for Automated Asteroids Detection in Astronomical Images. *Proceedings of the 2018 IEEE 14th International Conference on the Intelligent Computer Communication and Processing (ICCP)*, pp.365-369, (2018).
	3. Bica M., Gorgan D., Data Locality Aware Algorithm for Task Execution on Distributed, Cloud Based Environments. In: Barolli L., Terzo O. (eds) Complex, Intelligent, and Software Intensive Systems. CISIS 2017. *Advances in Intelligent Systems and Computing book series*, *vol. 611, pp.557-566. Springer*, (2018).
	4. Bacu V., Sabou A., Stefanut T., Gorgan D. and Vaduvescu O., NEARBY Platform for Detecting Asteroids in Astronomical Images Using Cloud-based Containerized Applications. *Proceedings of the 2018 IEEE 14th International Conference on the Intelligent Computer Communication and Processing (ICCP)*, pp.371-376, (2018).
	5. Colceriu V.D., Stefanut T., Bacu V., Gorgan D., Annotation and Position Recall from Low Grade Sensorial Data in the Context of Topological Railway Maps. *Journal of Studies in Informatics and Control, Special Issue on Advanced Services in Heterogeneous Distributed Systems*, Vol.26(4), pp. 469-480, (2017).
	6. Bica M., Gorgan D., Data Locality Aware Algorithm for Task Execution on Distributed, Cloud Based Environments. In *Advances in Intelligent Systems and Computing, Vol.611*, pp.557-566, (2017).
	7. Bacu V., Nandra C., Stefanut T., Gorgan D., SWAT model calibration over Cloud infrastructures using the BigEarth platform. *Proceedings of the Intelligent Computer Communication and Processing (ICCP)*, IEEE-Press, in press, (2017).
	8. Nandra C., Gorgan G., Defining Earth Data Batch Processing Tasks by Means of a Flexible Workflow Description Language, *ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, Volume III-4*, pp.59-66, (2016).
	9. Rodila D.D., Ray N., Gorgan D., Conceptual Model for Environmental Science Applications on Parallel and Distributed Infrastructures, *Journal of Environmental Systems Research, 4:23*, ISSN: 2193-2697, (2015).
	10. Lehmann A., Giuliani G., Mancosu E., Abbaspour K.C. , Sözen S., Gorgan D., Beel A., Ray R., 2014. Filling the gap between Earth observation and policy making in the Black Sea catchment with enviroGRIDS. *Environmental Science and Policy, Vol.46*, pp.1-12, (2015).
	11. Gorgan D., Mihon D., Bacu V., Rodila D., Stefanut T., Colceriu V., Allenbach K., Balcik F., Giuliani G., Ray N., Lehmann A., Flexible Description of Earth Data Processing over HPC

Architectures, *Big Data From Space Symposium*, Frascati, Italy, 5-7 June, Abstract Book, pp. 39 (2013).

12. Gorgan D., Giuliani G., Ray N., Cau P., Abbaspour K., Charvat K., Jonoski A., Lehmann A., Black Sea Catchment Observation System as a Portal for GEOSS Community, in *International Journal of Advanced Computer Science and Applications (IJACSA)*, pp.9-18, (2013).

13. Gorgan D., Bacu V., Stefanut T., Rodila D., Mihon D., Earth Observation application development based on the Grid oriented ESIP satellite image processing platform, *Journal on Computer Standards & Interfaces, 34*, 2012, pp. 541–548, (2012).

14. Gorgan D., Bacu V., Mihon D., Rodila D., Abbaspour, K., and Rouholahnejad, E.: Grid based calibration of SWAT hydrological models, *Journal of Nat. Hazards Earth Syst. Sci.*, 12, pp. 2411-2423, (2012).

15. Gorgan D., Bacu V., Mihon D., Stefanut T., Rodila D., Cau P., Abbaspour K., Giuliani G., Ray N., Lehmann A., Software platform interoperability throughout enviroGRIDS portal, in *International Journal of Selected Topics in Applied Earth Observations and Remote Sensing – JSTARS, Vol. 5/6*, pp. 1617-1627, (2012).

16. Rodila D., Bacu V., Gorgan D., Comparative Parallel Execution of SWAT Hydrological Model on Multicore and Grid Architecture, *International Journal of Web and Grid Services, Vol. 8, No. 3*, 2012, pp. 304-320, (2012).

17. Gorgan D., Bacu V., Mihon D., Rodila D., Stefanut T., Abbaspour K., Cau P., Giuliani G., Ray N., Lehmann A., Spatial Data Processing Tools and Applications for Black Sea Catchment Region. *International Journal of Computing, Vol.11 (4)*, pp. 327-335. (2012).

18. Rodila D., Gorgan D., Geospatial and Grid Interoperability through OGC Services Gridification, in *International Journal of Selected Topics in Applied Earth Observations and Remote Sensing – JSTARS, Vol. 5/6*, pp. 1650-1658, (2012).

19. Mihon D., Bacu V., Rodila D., Stefanut T., Abbaspour K., Rouholahnejad E., Gorgan D., Grid Based Hydrologic Model Calibration and Execution. Chapter in the book: *Advanced in Intelligent Control Systems and Computer Science, Dumitrache I. (Ed.), Springer-Verlag, Volume 187*, 2012, pp 279-293, (2012).

20. Gorgan D., Bacu V., Rodila D., Pop P., Petcu D., Experiments on ESIP - Environment Oriented Satellite Data Processing Platform, in *Earth Science Informatics Journal, Springer, Vol.3/4*, December 2010, pp. 297-308, (2010).

Granturi, contracte de cercetare (Contracte reprezentative)	Proiecte FP7:

IASON - Fostering sustainability and uptake of research results through Networking activities in Black Sea & Mediterranean areas, http://www.iason-fp7.eu/, Funded by the European Commission (2013 - 2015).

EnviroGRIDS - Building Capacity for a Black Sea Basin Observation and Assessment System supporting Sustainable Development, http://www.envirogrids.net/. Funded by the European Commission (2009 - 2013).

mEducator - Multi-type Content Repurposing and Sharing in Medical Education, http://www.meducator.net/. eContentplus - Digital Content and Cognitive Systems Programme funded by European Commission (2009-2012).

SEE-GRID-SCI - SEE-GRID eInfrastructure for regional eScience, http://www.see-grid-sci.eu/. Funded by the European Commission (2008 - 2010).

Proiecte de cercetare de excelenta:

NEARBY – Tehnici de analiză vizuală a datelor astrofizice multidimensionale pentru detecția obiectelor in mișcare, http://cgis.utcluj.ro/projects/nearby, ROSA STAR project (2017-2019).

HORUS – Platformă software pentru monitorizare pedologică in zona transilvaniei bazată pe date sentinel-2, http://cgis.utcluj.ro/projects/horus, ROSA STAR project (2017-2019).

BIGEARTH - Flexible processing of big earth data over high performance computing architectures, http://cgis.utcluj.ro/projects/bigearth, ROSA STAR project (2013-2016).

PECSA - Experimental Computer Services Platform for Scientific and Entrepreneurial Development, http://cgis.utcluj.ro/pecsa, PN-II-PT-PCCA-2013-4-1976, (2014-2016).

GiSHEO - On demand Grid services for high education and training in Earth observation, http://gisheo.info.uvt.ro/. Funded by European Space Agency through PECS Programme (2008-2010).

MedioGRID - Parallel and distributed graphical processing on GRID structure of geographical and environment data, 19CEEX-I03 (2005-2008).

Proiecte Socrates Minerva:

KEYSTONE, COST Action IC1302 - Semantic keyword-based search on structured data sources, 2013-2017. Member of the Management Committee.

ComplexHPC, COST Action IC0805 - Open European Network for High Performance Computing on Complex Environments, 2009-2013. Member of the Management Committee.

I-TRACE - Interactive Tracing and Graphical Annotation in Pen-based e-learning, 223434-CP-I-2005-IT-Minerva-M (2005-2007).

Proiecte TEMPUS:

S_JEP 11248-96 "**ROCOCO**" (1996-1999, main proposer and local coordinator in the Technical University of Cluj-Napoca).

IMG-94-RO-1029 (1995), individual mobility to Rutherford Appleton Laboratory (UK).

S_JEP 08337-94 "**IARCOD**" (1994-1997, local coordinator in the Technical University of Cluj-Napoca).

ABILITATI PROFESIONALE SI COMPETENTE	
Premii si distinctii	Premiul "Team of the Year Award" pentru dezvoltarea Black Sea SWAT model. Warsaw, 2017.
	Premiul "Excelenta in cercetare", Universitatea Tehnica din Cluj-Napoca, 2012.
	Premiul "Best Awareness Level in FP7-ICT Grant Schemes and Current Projects in Software Services", Praga, 2011
	Titlul "Profesor Visitante Ilustre" la Pontificia Universidad Católica de Valparaíso, 2009.
	Premiul I national, pentru Primul Robot Mobil Articulat Controlat de un Microcalculator (PETRICA), proiectat si construit in Romania. Bucuresti 1980.
	Numeroase premii la olimpiade nationale si universitare la Matematica, Fizica si, Stiinta si Ingineria Calculatoarelor.
Organizatii profesionale	Membru IEEE, ACM, ACM ROCHI, IFIP Working Group 13, ICT EU Expert, CNCSIS Expert
	Presedintele organizatiei nationale ACM RoCHI Romania, Editor sef al Revistei Romane de Interactiune Om-Calculator (RRIOC)
Vizite profesionale	Pontificia Universidad Católica de Valparaíso (CL), University of Plymouth (UK), University of Exeter (UK), Universita degli Studi di Catania (I), Universita degli Studi di Torino (I), (ERASMUS-SOCRATES Programme), Free University of Amsterdam (NL)
Evenimente stiintifice	Activitati de training si tutoriale in domeniul Prelucrari pe Arhitecturi de Calcul de Inalta Performanta (HPC) in domeniul Earth Science: Istanbul (Turcia), Erevan (Armenia), Thessaloniki (Grecia), Batumi (Georgia), Sofia (Bulgaria), Novi Sad (Serbia), Rabat (Maroc), Delft (Olanda), Geneva (Elvetia).
Limbi straine cunoscute	Engleza: foarte bine Italiana: foarte bine Franceza: bine

Cluj-Napoca
25/04/2019

Prof.dr.ing. Dorian GORGAN