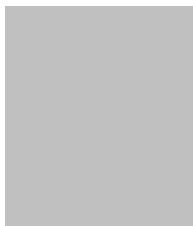


INFORMAȚII PERSONALE



Popa Radu Teodoru

 [Redacted]
 [Redacted]
 [Redacted]

[Redacted]

EXPERIENȚA PROFESIONALĂ

2017- prezent

Medic cardiolog

CMI Popa Radu

- Activitati medicale

Tipul sau sectorul de activitate Medical

2015 - 2021

Director de proiect

Cadiax Med Srl, Craiova, Dolj, Romania

- Activitati de cercetare în domeniul Calculatoare și Tehnologia Informației

Tipul sau sectorul de activitate Cercetare /Medical

10.2019- prezent

Sef lucrari

Universitatea din Craiova, str. A.I.Cuza nr.13, 200585 Craiova, Romania

- Activitati didactice în domeniul Calculatoare și Tehnologia Informației

Tipul sau sectorul de activitate Învățământ superior/ Cercetare

11.2017- 09.2019

Plata cu ora Asistent Universitar

Universitatea din Craiova, str. A.I.Cuza nr.13, 200585 Craiova, Romania

- Activitati didactice în domeniul Calculatoare și Tehnologia Informației

Tipul sau sectorul de activitate Învățământ superior/ Cercetare

01.2016 – 02.2017

Medic cardiolog

Spitalul judetean de Urgenta Slatina ,Olt, Romania

- Activitati medicale

Tipul sau sectorul de activitate Medical

09.2014 – 04.2017

Cercetator Științific grd 3

Universitatea din Craiova

- Activitati de cercetare

Tipul sau sectorul de activitate Cercetare

01.2010 – 12.2015

Medic rezident, cardiologie

Spitalul județean de urgență, Slatina, Blvd. N.Titulescu, jud.Olt,

- Pregatire teoretica si practica in activitati medicale
- Tipul sau sectorul de activitate Medical

2010-09.2014 **Programator**
SC Medinsys SRL, Craiova

- Activitati de , realizare si testare de produse software

Tipul sau sectorul de activitate Cercetare

06.2009 – 12.2004 **Medic Rezident cu timp partial Medicina de familie**

Directia de sanatate publica Dolj, str. Tabaci nr 1, Craiova

- Activitati de pregatire teoretica si practica in medicina

Tipul sau sectorul de activitate Medical

01.2009 – 05.2009 **Programator -Senior Software Developer in C++, C#**

SC ITSIX , Craiova

- Activitati de realizare produse software

Tipul sau sectorul de activitate : Realizare soft

09.2004- 11.2008 **Research assistant , Visiting Research Scholar**

Georgetown University, Imaging Science & Information

Systems (ISIS) Center, 2115 Wisconsin Avenue NW Suite 603, Washington DC 20007, SUA

Activitati de realizare produse software -two large medical applications

Tipul sau sectorul de activitate Industrial

09.2004- 11.2008 **Inginer de sistem**

Universitatea din Craiova, - Directia Economica

Activitati de intretinere a sistemelor si de proiectare aplicatie web pentru examinarea studentilor

Tipul sau sectorul de activitate Invatamant superior

EDUCAȚIE ȘI FORMARE

01/10/2010 – 20.12.2013 **Doctor in Calculatoare si Tehnologia informatiei**

Universitatea din Craiova, România

- Titlu teză: Medical data virtualization, Domeniul: Calculatoare si Tehnologia Informației, Universitatea din Craiova, Coordonator științific: prof. dr. ing. Mihai Lucian Mocanu , Susținere publică: 20.12.2013, Diplomă de doctor: seria I nr. 0004399, Ordinul Ministrului Educației, Cercetării, Tineretului și Sportului nr.165/07.04.2014

2003-2004 si 2005-2006 **Master – Inginerie Software**

Universitatea din Craiova, România

Titlu lucrarii: Transbronchial Biopsy with Virtual CT Bronchoscopy and Video Bronchoscopy, coord prof dr. Ing Mihai Lucian Mocanu

Baze de date multimedia, procesarea imaginilor, Complexitatea calculului, Sisteme grafice complexe

07.2005 – 12.2006 **Certificate of Oracle 10g Database Administration**
 Georgetown University, Center for Professional Development, Washington DC 20007, SUA,
 webmaster@isis.georgetown.edu
 Administrarea bazelor de date ORACLE

01/10/1998 – 30/06/2003 **Inginer, specializarea Calculatoare**
 Universitatea din Craiova, România , Facultatea de Automatică, Calculatoare și Electronică
 Modelare, Algoritmi, Limbaje paralele, Baze de date, Rețele de calculatoare, Sisteme de operare,
 Analiza algoritmilor

10/1998 – 2004 **Medic- medicina generala**
 Universitatea de Medicina si Farmacie din Craiova, România
 Informatica medicala, Biostatistica, Imagistica medicala, Sănătate publica și management sanitar

09.1994–06.1998 **Diploma de bacalaureant**
 Colegiul National Carol (Liceul Nicolae Balcescu) Craiova, România
 Profil matematica fizica

COMPETENTE PERSONALE

Limba maternă

Română

Alte limbi străine cunoscute

	INTELEGERE		VORBIRE		SCRIERE
	Ascultare	Citire	Participare la conversație	Discurs oral	
Engleză	C1	C1	C1	C1	C1
Franceză	B2	B2	B1	B1	B1

Niveluri: A1/2: Utilizator elementar - B1/2: Utilizator independent - C1/2: Utilizator experimentat
 Cadrul european comun de referință pentru limbi străine

Competențe de comunicare

- Abilități de lucru în echipă; adaptabilitate la medii de lucru multiculturală și interculturală; abilități de comunicare foarte bune dovedite de participarea cu succes la dezvoltarea de proiecte de cercetare, naționale și internaționale

Competențe organizaționale/manageriale

- Spirit de observație și de bună colaborare în realizarea unor activități realizate în comun, mai ales în domeniul cercetării științifice.

Alte competente si aptitudini

- Fotografia

Competențe informatice

-Limbaje: C/C++(4 ani experienta),Java(2 ani) Delphi/Pascal(2 years), VisualBasic(1 an), Assembly language(4 luni),C#(6 luni),
 -Aplicatii Server: Oracle 10(6 luni), mySQL(6 luni), Ms SQL Server(1 an), Apache Tomcat(2 ani);
 -API:OpenGL,DirectX(1 an);
 -Scripting: ASP.Net,JSP,CSS,HTML,JS,PHP, and Ruby on Rails(2 ani);
 -Procesarea imaginilor: registration, segmentation, navigation, visualization, and robot control in medical

procedures(4 ani);
 -Platforme:Windows XP,Linux-4 ani;
 -Abilitatea de a dezvolta aplicatii tip model-view-controller;

Permis de conducere Categoria B

INFORMATII SUPLIMENTARE

Articole

1. Banovac F., Wood B., **Popa R.T.**, Lindisch D., Zhang H., Cleary K., and Glossop N., "Feasibility of carotid stent deployment in swine using an electromagnetic navigation device for catheter guidance," Proceedings of the Computer Assisted Radiology and Surgery, 2005, p. 1308, Berlin, Germany
2. **Popa, Teodoru**, Mocanu, Mihai (2005) 3D Visualization Registration and Segmentation Tool, Proc. 12th International Symposium on System Theory (SINTES 12), 3, 693-696, Craiova
3. Banovac F., Popa R.T., White A., Yousefi S., Kashitani N., Cleary K., "Feasibility of Manual and Semiautomatic Computer Assisted Methods for Fibroid Segmentation," Society of Interventional Radiology Meeting, Toronto, 2006, J Vasc Interv Radiol Suppl., 2006 Feb; (17):2, part 2, pp. S81.
4. Mocanu, M., **Popa, R.T.** Applying Novel Registration and Segmentation Methods in Medical Imaging Database Retrieval, Proc. 7th International Carpathian Control Conference, 381-384, Ostrava – Beskydy , Czech Republic, 2006
5. **Popa R.Teodoru** ; Luis Ibáñez ; Kevin Cleary and Kenneth H. Wong "ITK implementation of deformable registration methods for time-varying (4D) imaging data", Proc. SPIE 6141, Medical Imaging 2006: Visualization, Image-Guided Procedures, and Display, 61412J (March 13, 2006); doi:10.1117/12.655921 - **13 Citations**
6. **Popa R.Teodoru**, Kenneth Wong, Luis Ibanez, Kevin Cleary "Tumor volume measurement and volume comparison plug-ins for ITK:"SPIE 2005, PROCEEDINGS- SPIE THE INTERNATIONAL SOCIETY FOR OPTICAL ENGINEERING, 2006, VOL 6141, pages 61411B, ISSN 0277-786X,, **23 Citations**
7. Kenneth H. Wong, Luis Ibanez, **Teodoru Popa**, Kevin Cleary , Creation of 4D imaging data using open source image registration software: In Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, Vol. 6141 (March 2006), pp. 194-202
8. Choi J., Gruionu L., **Popa R.T.**, Anderson E., and Cleary K., "Transbronchial biopsy based on electromagnetic tracked biopsy forceps," Int. J. Computer Assisted Radiology and Surgery 2, S143-S145 (2007)., Germany **5 citations**
9. Filip Banovac, **T Popa**, P Cheng, K Cleary, H Abeledo, E Campos-Nanez, BJ Wood " An image-guided system for optimized volumetric treatment planning and execution for radiofrequency ablation of liver tumors " 2007, International Journal of Computer Assisted Radiology and Surgery (Print) Volume 2, nr. Suppl. 1 , pag S146-S147 , - **4 Citations**
10. **Popa R.Teodoru**, Jae Choi, "High Dynamic Range (HDR) Virtual Bronchoscopy Rendering for Video Tracking", PROCEEDINGS- SPIE THE INTERNATIONAL SOCIETY FOR OPTICAL ENGINEERING 2007, VOL 6509; PART 2, pages 65091J ,ISSN 0277-786X - **2 citations**
11. F Banovac, P Cheng, E Campos-Nanez, B Kallakury, **T Popa**, HG Abeledo, DJ Lindish, M Mantell, K Cleary- " Abstract No. 255: Radiofrequency Ablation of Lung Tumors in Swine Assisted by a Navigation Device with Pre-Procedural Volumetric Planning"- Journal of Vascular and Interventional Radiology ,2009 , 20 , 2 Supplement , S98 10.1016/j.jvir.2008.12.250
12. Jae Choi, **Teo Popa**, Lucian Gruionu, "Transbronchial needle aspiration with a new electromagnetically-tracked TBNA needle" -2009/3/13 Conference " Medical Imaging 2009: Visualization, Image-Guided Procedures, and Modeling ", published

in VOL 7261, pag.863-870, Editor SPIE - **5 Citations**

13. Filip Banovac, MD; Patrick Cheng, MS; Enrique Campos-Nanez, PhD; Bhaskar Kallakury, MD; **Teodoru Popa**, MS; Emmanuel Wilson, MS; Kevin Cleary, PhD- " Radiofrequency Ablation of Lung Tumors in Swine Assisted by a Navigation Device with Preprocedural Volumetric Planning" ,J Vasc Interv Radiol. 2010 Jan;21(1), Pages 122–129, <https://doi.org/10.1016/j.jvir.2009.09.012>, **30 citations**
14. Z. Yaniv, P.Cheng, E. Wilson, R.T. Popa, D. Lindisch, E. Campos-Nanez, H. Abeledo, V. Watson, K. Cleary, and F. Banovac, "Needle-based interventions with the image-guided surgery toolkit (IGSTK): From phantoms to clinical trials,*IEEE Trans. Biomed. Eng.*, 57(4), pp. 922-933, 2010, **72 Citations DOI: 10.1109/TBME.2009.2035688**
15. **Popa R.T.**, Andrei Mocanu, "Medical Data Storage, Visualization and Interpretation: A Case Study Using a Proprietary ECG XML Format", , Annals of the University of Craiova, Vol 8(35), No.2, 2011 - **3 citations**
16. **Popa R.T.** ,Mocanu M. " Computer Assisted ECG Storage, Visualization and Measurements using a Proprietary XML Format ", AWERProcedia Information Technology & Computer Science. vol 3, pp 1613-1619. (WCIT-2012), 14-16 November 2012, University of Barcelon, Barcelona, Spain.
17. **Popa R.Teodoru**, Mihai Mocanu,"Validation Study for Two Stage Vessel Segmentation Algorithm",8th Annual South East European Doctoral Student Conference Programme,DSC 2013, Thessaloniki – Greece, 17 September 2013,pp.4
18. **Popa R.Teodoru.**, Transbronchial Biopsy Assisted by Electromagnetically-Tracked Navigation ,Plenoptics 2013, 16 - 20 June 2013, Mid Sweden University, Sweeden
19. **Popa R.Teodoru**, Mihai Mocanu," Coronary Artery Segmentation in Cardiac Angiography Images based on a Hybrid Approach", 7th International Conference on System Theory, Control and Computing Joint Conference SINTES 17, SACCS 13, SIMSIS 17,11 - 13 October 2013, Sinaia, Romania **1Citations**
20. **Popa R.Teodoru** , Mihai Mocanu ,Vizualizarea datelor medicale tip semnal si imagine:O abordare open source, ,Conferinta nationala a doctoranzilor "Cercetari doctorale in Romania prin sprijin european" Universitate de Vest Timisoara,23 februarie 2013,Workshop nr.2,Activitatea nr.10 .
21. **Popa R.T.**, Mihai Mocanu, "Validation Study for Two Stage Vessel Segmentation Algorithm",8th Annual South East European Doctoral Student Conference Programme,DSC 2013, Thessaloniki – Greece, 17 September 2013,pp.4
22. Lucian Gheorghe Gruionu, **Teodoru Popa**, Catalin Ciobîrca, Adrian Saftoiu, Costin Streba, Ana-Maria Ioncica, Thomas Langø, Gabriel Gruionu, "A novel fusion imaging guiding system for bronchoscopy", Design of Medical Devices – Europe Edition Oct. 22-24, 2014, Delft.
23. Catalin Ciobirca, **Teodoru Popa**, Gabriel Gruionu, Thomas Lango, Hakon OlavLeira, Stefan Dan Pastrama, Lucian Gheorghe Gruionu, "Virtual bronchoscopy method based on marching cubes algorithm" ICSAAM 2015, The 6th International Conference on Structural Analysis of Advanced Materials 08– 11 September 2015, Porto, Portugal.
24. Catalin Ciobirca, Gabriel Gruionu, **Teodoru Popa**, Stefan Dan Pastrama, Thomas Lango, Hakon Olav Leira, Lucian Gheorghe Gruionu, "Collision detection algorithm forimproved electromagnetic tracking navigation in bronchoscopy", Design of Medical Devices – Europe Edition Sept. 8-9, 2015, Vienne.
25. Adina Glodeanu, A Carstea, M.Popescu, I.C Efrem, E.Ionescu, **Popa Teodoru** - " Protocoale actuale de profilaxie a endocarditei infectioase in cabinetul medicului dentist" al VII lea Congres National "Zilele Medicinei Dentare Craiovene",4-6 iunie 2015, Craiova
26. Catalin Ciobirca, **Teodoru Popa**, Gabriel Gruionu, Thomas Lango, Hakon Olav Leira, Stefan Dan Pastrama, Lucian Gheorghe Gruionu "Virtual bronchoscopy method based on marching cubes and an efficient collision detection and resolution algorithm" ,2016/7/1 ,Journal Ciência & Tecnologia dos Materiais, 2016; 28(2):162-166,ISSN 0870-8312 editor Elsevier, **3 Citations DOI:10.1016/j.ctmat.2015.12.002**
27. Gruionu LG, Săftoiu A, **Popa T**, Ciobârcă C, Streba CT, Ioncică AM, Gruionu G."Feasibility

Study of a Novel Navigation System for Biopsy of Peripheral Lesions in the Lungs” Current Health Sciences Journal. 2016; 42(1): 76-81 2016, DOI: 10.12865/CHSJ.42.01.11 - 2

citations

28. C. Ciobirca, G. Gruionu, T. Lango, H. Olav Leira, S. D. Pastrama, L. G. Gruionu, T. Popa, “Three dimensional data generation and graphical representation of theoretical tracheobronchial trees and lung models” ,CARS 2016—Computer Assisted Radiology and Surgery Proceedings of the 30th International Congress and Exhibition Heidelberg, Germany, June 21–25, 2016. *Int J CARS* **11**(International Journal of Computer Assisted Radiology and Surgery volume , supplement issue 1, 2016/06/20)
29. Felicia Stefureac , **Popa Radu Teodoru** -"Evaluation of the Risk of Heart Disease and Premature Death in a Roma Population in Olt County", East Meets West Conference, Sibiu ,2017
30. Popa(Ciurezu) Didi Liliana, Faiq Baji, **Popa Radu Teodoru**, Overview of Deep Learning in Medical Imaging, ANNALS OF THE UNIVERSITY OF CRAIOVA, Series: Automation, Computers, Electronics and Mechatronics, Vol. 14 (41), No. 1, 2017 - 2citations
31. A. Glodeanu, D.A.Cherata, **Radu Teodoru Popa**, D.L. Popa, L.Barbulescu, S.I. Zaharie, A. Golli, M.V. Glodeanu -"Four-Dimensional Echocardiography Is an Accurate Tool for Coronary Sinus Evaluation in Patients with Persistent Left Superior Vena Cava Diagnosis" -2020/10, Journal Discoveries, Vol. 8, Nr. 4 DOI: 10.15190/d.2020.15
32. D. L.Popa, Mihai-Lucian Mocanu, **Radu-Teodoru Popa**, Lucian-Florentin Bărbulescu, Linda Nicoleta Bărbulescu, Cătălin Ciobîrcă-"Augmented and mixed reality for collaborative cardiac planning using 3D and 4D medical imaging data" 2020 24th International Conference on System Theory, Control and Computing (ICSTCC) , pag 384-389, DOI 10.1109/ICSTCC50638.2020.9259677- 1Citation
33. Dumitrescu, C.I.; Ciobirca, C.; **Popa, R.T.**; Dumitrescu, D.; Tambura, C.G.; Ciobirca, D.M.; Stavaru, R.; Tiuca, M.F.; Maces, S.; Barbulescu, L.F.; et al. “ Preoperative Planning for Superior Mesenteric Artery Aneurysm” Journal Applied Sciences (2021) , vol 11 , issue 21, doi: 10.3390/app112110311
34. D.L. Popa, M.L. Mocanu, **R.T. Popa** - “Risk Estimator using a Multi-Layer Perceptron Network for Coronary Artery Disease Prevention “4th International Conference on Recent Trends and Applications in Computer Science and Informations Technology, Proceedings of RTA-CSIT 2021, May 2021, Tirana, Albania - 1 citation
35. D. L. Popa, M. L. Mocanu, **R. -T. Popa**, L. -F. Barbulescu and L. -N. Barbulescu, "Comparing two different types of deep neural networks to improve accuracy in ECG interpretation," 2021 25th International Conference on System Theory, Control and Computing (ICSTCC), 2021, pp. 260-265, doi: 10.1109/ICSTCC52150.2021.9607110.
36. **T. R. Popa**- “Radiotherapy and its consequences for the heart” -3rd International Sisli Science Congress 2022/26-27May, Istanbul
37. L.F. Bărbulescu, D.L. Popa , **Radu-Teodoru Popa**, C.Pătrașcu- “A simple files backup component for a Flight Dynamics System” -2022 23rd International CARPATHIAN CONTROL CONFERENCE (ICCC)
38. D.L. Popa , **Radu-Teodoru Popa**, L.F. Bărbulescu, R. Ivănescu ,Mihai Mocanu- “Segmentation of Different Human Organs on 3D Computer Tomography and Magnetic Resonance Imaging using a 3D U-Net Framework”-2022 23rd International CARPATHIAN CONTROL CONFERENCE (ICCC)
39. C. Ciobirca, C. I. Dumitrescu, **R. T. Popa**, D. Dumitrescu, C. G. Tambura, D. M. Ciobirca, M. F. Tiuca, S. Maces, M. Moraru, L. F. Barbulescu, L. D. Popa, S. M. Cazacu - “Preoperative planning for cardiovascular surgery”- COMPUTER ASSISTED RADIOLOGY AND SURGERY (CARS) 36th International Congress and Exhibition, 2022 June [ISCAS-PO-72]

with Novel Biopsy Device”, în colaborare cu ISIS Center, Georgetown University, Washington, SUA, si Catholic University, Washington USA, finanțat de TATRC BAA, SUA (valoare grant: 300.000\$)

-“TRANSBITE” (Image and electromagnetic guided innovative system for transbronchial biopsy) -- PCCA tip 2- cod proiect PN-II-PCCA-2011.3.2-0482 nr contract 87/2012, director proiect Lucian Gruionu - autoritatea contractanta - Unitatea Executiva pentru Finantarea Invatamantului superior, a Cercetarii , Dezvoltarii si Inovarii

- “TRIGGER”(Sistem inovativ pentru diagnosticul precoce, stadializarea exacta si monitorizarea tratamentului pacientilor cu tumori digestive si bronhopulmonare)- cofinatat din Fondul Social European de Dezvoltare Regionala prin Programul Operational Sectorial “Cresterea Competitivitatii Economice” - contract 285/16-12-2010 ID nr 983 cod SMIS-CSNR 19782

-“NAVICAD” (Nsvigation system for confocal laser endomicroscopy to impruve optical biopsy of peripheal lesion in the lungs” - contract 3/23.06.2014 proiect EEA-JRP-RO-NO_2013-1-0123 (coordonator Universitatea din Craiova, parteneri Universitatea Politehnica din Bucuresti, Stiftelesen SINTEF represented by its institute Technology and society (SINTEF, St. Olavs Hospital- Norway)

-“ADMIC”(Algoritm de diagnostic si management al ischemiei cardiace)- contract de finantare Programul Operational Competitivitate- Id: P_38_937 cod smis 2014+ 119867 , director proiect Popa Radu Teodoru

Patent

RO-130303-AO - SISTEM ȘI METODĂ PENTRU NAVIGAȚIE ÎN BRONHOSCOPIE, Medinsys , Gruionu Lucian Gheorghe;Popa Radu Teodoru; Ciobirca Costin Cătălin; Gruionu Gabriel; Săftoiu Adrian, (30.06.2015)

Carti

Elemente de grafica pe calculator:Studiu de caz Jocurile pe calculator in Unity - Popa Radu Teodoru ISBN 978-606-11-7821-6 (2021)



09.06.2022