

CURRICULUM VITAE

Nume/Prenume: Itu Lucian Mihai
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Naționalitate: română
Data nașterii: 27.02.1985
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Permis de conducere: Da
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Educație și formare

Perioada: aprilie 2014 – octombrie 2015
Calificarea: Postdoctorat
Domeniul: Ingineria Sistemelor
Numele și tipul instituției de învățământ: Universitatea „Transilvania” Brașov, Facultatea de Inginerie Electrică și Știința Calculatoarelor

Perioada: octombrie 2013 – septembrie 2014
Tipul activității: cercetare în domeniul ingineriei biomedicale
Competențe profesionale dobândite: metode de estimare a parametrilor, modelarea personalizată a circulației coronariene
Furnizorul de formare: Siemens SRL Corporate Technology

Perioada: 2010-2013
Calificarea: Studii de doctorat
Domeniul: Inginerie Electrică
Numele și tipul instituției de învățământ: Universitatea „Transilvania” Brașov, Facultatea de Inginerie Electrică și Știința Calculatoarelor

Perioada: februarie 2011 – aprilie 2011, august 2011 – noiembrie, iulie 2012 – septembrie 2012
Tipul activității: cercetare în domeniul ingineriei biomedicale
Competențe profesionale dobândite: modelarea sistemului cardiovascular folosind dinamica fluidelor numerică
Furnizorul de formare: Siemens Corporate Research and Technology Princeton, USA

Perioada: 2004-2009
Calificarea/diploma obținută: inginer diplomat
Disciplinele principale studiate: Automatică și Informatică Aplicată
Numele și tipul instituției de învățământ: Universitatea „Transilvania” Brașov, Facultatea de Inginerie Electrică și Știința Calculatoarelor

Perioada: noiembrie 2006 - iunie 2007 (bursă)
Tipul activității: programator
Competențe profesionale dobândite: procesare paralelă folosind procesoare grafice
Furnizorul de formare: PSE Siemens SRL

Perioada: 2000-2004
Calificarea: diploma de Bacalaureat
Disciplinele principale studiate: Științele Naturii
Numele și tipul instituției de învățământ: Liceul teoretic "Johannes Honterus" Brașov

Experiență profesională

Perioada: octombrie 2014 – prezent
Tipul activității: cercetare în domeniul ingineriei biomedicale
Competențe profesionale dobândite: metode de estimare a parametrilor, modelarea personalizată a circulației coronariene, inteligență artificială
Furnizorul de formare: Siemens SRL Corporate Technology

Perioada: octombrie 2014 – prezent
Tipul activității: cadru didactic titular (șef lucrări)
Competențe profesionale dobândite: predarea cursului și a laboratoarelor disciplinelor "Automate Programabile", "Sisteme de conducere a proceselor tehnologice" și "Programarea aplicațiilor de timp real"
Numele și tipul instituției de învățământ: Universitatea „Transilvania” Brașov, Facultatea de Inginerie Electrică și Știința Calculatoarelor

Perioada: octombrie 2009 – septembrie 2014
Tipul activității: cadru didactic asociat
Competențe profesionale dobândite: predarea cursului și a laboratoarelor disciplinelor "Automate Programabile", "Sisteme de conducere a proceselor tehnologice" și "Programarea aplicațiilor de timp real"
Numele și tipul instituției de învățământ: Universitatea „Transilvania” Brașov, Facultatea de Inginerie Electrică și Știința Calculatoarelor

Proiectele de cercetare-dezvoltare conduse

1. Contr. nr. 732907/2016-2019, program: Horizon 2020 (H2020) – *MHMD – My Health My Data*, finanțat de EU Commission, volum finanțare: 147.250 Euro. Beneficiar: Universitatea Transilvania din Brașov (responsabil partener).
2. Contr. nr. 8/2017/2017-2020, program: FLAG-ERA – *ITFoC – Information Technology: The Future of Cancer Treatment*, finanțat de EU Commission / UEFISCDI, volum finanțare: 62.500 Euro. Beneficiar: Universitatea Transilvania din Brașov (responsabil partener).
3. Contr. nr. 10/2017/2017-2020, program: FLAG-ERA – *CONVERGENCE – Frictionless Energy Efficient Convergent Wearables for Healthcare and Lifestyle Applications*, finanțat de EU Commission / UEFISCDI, volum finanțare: 35.000 Euro. Beneficiar: Universitatea Transilvania din Brașov (responsabil partener).
4. Contr. nr. 145PED/2017/2017-2018, program PNIII: Programul 2 - Creșterea competitivității economiei românești prin cercetare, dezvoltare și inovare – *Image-based functional assessment of renal artery stenosis using Computer Tomography Angiography or*

routine X-ray Angiography, finanțat de UEFISCDI volum finanțare: 158.000 RON.

Beneficiar: Siemens SRL (responsabil partener).

5. Contr. nr. 138PED/2017,/2017-2018, program PNIII: Programul 2 - Cresterea competitivitatii economiei romanesti prin cercetare, dezvoltare si inovare – *Image-based functional assessment of complex coronary artery lesions using optical coherence tomography and routine angiography*, finanțat de UEFISCDI, volum finanțare: 208.000 RON. Beneficiar: Siemens SRL (responsabil partener).

Aptitudini și competențe personale

Limba maternă: română

Limbi străine cunoscute:

Engleza	înțelegere:	<i>foarte bine</i>
	vorbire:	<i>foarte bine</i>
	scriere:	<i>foarte bine</i>
Germană	înțelegere:	<i>excelent</i>
	vorbire:	<i>excelent</i>
	scriere:	<i>excelent</i>

Competențe si abilități sociale: punctual, capabil de lucru în echipă, dispus să învâț și să mă perfecționez

Competențe și aptitudini organizatorice: capacitate dezvoltată de înțelegere și sistematizare a sarcinilor în cadrul unei echipe

Competențe aptitudini tehnice:

Programarea calculatoarelor:

C/C++, CUDA, Python, Java

Programarea bazelor de date:

MS SQL Server

Sisteme de operare:

Windows XP/Vista/7

Alte competențe:

Monitorizarea și controlul aplicațiilor industriale folosind OPC

Programarea automatelor programabile: Step 7 Manager, MicroWin, EasySoft

CoDeSys, AC1131, GX IEC Developer

Informații suplimentare:

Premiul II la ‘Best Student Paper competition’ în cadrul conferinței internaționale ‘IEEE International Conference on Biomedical and Health Informatics’, Valencia, Spania, Iunie 1-4, 2014 cu lucrarea ‘A method for modeling surrounding tissue support and its global effects on arterial hemodynamics’.

Bursa de merit din partea firmei Ursus SRL în perioada octombrie 2007 – iunie 2008.

Premiul I la Sesiunea de comunicări științifice studențești în anul V de studiu (pentru dezvoltarea unui sistem de poziționare de precizie condus de un automat programabil).

Mențiune la Sesiunea de comunicări științifice studențești în anul IV de studiu (pentru prezentarea teoretică și practică a modului de lucru a automatelor programabile Mitsubishi).

Premiul II la Sesiunea de comunicări științifice studențești în anul III de studiu (pentru realizarea unui site dinamic folosind Apache, PHP, MySQL).

Premiul III la Sesiunea de comunicări științifice studențești în anul I de studiu (pentru realizarea unui site dinamic folosind Apache, PHP, MySQL).

LISTA LUCRĂRILOR PUBLICATE

Lista lucrărilor relevante pentru realizările profesionale proprii

1. **Itu, L. M.**, Teză de doctorat: Utilizarea procesării paralele în modelarea multiscalară a hemodinamicii coronariene, 2013.
2. **Itu, L. M.**, Sharma, P., Suci, C., Moldoveanu, F., Comaniciu, D., Personalized Blood Flow Computations: A Hierarchical Parameter Estimation Framework for Tuning Boundary Conditions, *International Journal on Numerical Methods in Biomedical Engineering*, Vol. 33, March 2017, pp. e02803, ISSN: 2040-7947, DOI: 10.1002/cnm.2803 (ISI journal, WOS:000395407900006, FI: 1.849).
3. **Itu, L. M.**, Rapaka, S., Passerini T., Georgescu, B., Schwemmer, C., Schoebinger, M., Flohr, T., Sharma, P., Comaniciu, D., A Machine Learning Approach for Computation of Fractional Flow Reserve from Coronary Computed Tomography, *Journal of Applied Physiology*, Vol. 121, July 2016, pp. 42-52, ISSN: 8750-7587, DOI: 10.1152/jappphysiol.00752.2015 (ISI journal, WOS:000372013600004, FI: 3.004).
4. **Itu, L. M.**, Sharma, P., Passerini T., Kamen, A., D., Suci, C., Comaniciu, D., A Parameter Estimation Framework for Patient-specific Hemodynamic Computations, *Journal of Computational Physics*, Vol. 281, Jan, 2015, pp. 316-333, ISSN 0021-9991, DOI: 10.1016/j.jcp.2014.10.034 (ISI journal, WOS:000346429300018, FI: 2.556).
5. **Itu, L. M.**, Sharma, P., Kamen, A., D., Suci, C., Comaniciu, D., Graphics Processing Unit Accelerated One-Dimensional Blood Flow Computation in the Human Arterial Tree, *International Journal on Numerical Methods in Biomedical Engineering*, Vol. 29, December, 2013, pp. 1428 – 1455, ISSN: 2040-7947, DOI: 10.1002/cnm.2585 (ISI journal, WOS:000327732300008, FI: 1.849).
6. **Itu, L. M.**, Sharma, P., Ralovich, K., Mihalef, V., Ionasec, R., Everett, A., Ringel, R., Kamen, A., Comaniciu, D., Non-invasive Hemodynamic Assessment of Aortic Coarctation: Validation with in-vivo Measurements, *Annals of Biomedical Engineering*, Vol. 41, April, 2013, pp. 669-681, ISSN: 1573-9686, DOI: 10.1007/s10439-012-0715-0 (ISI journal, WOS:000316566400002, FI: 2.887).
7. **Itu, L. M.**, Sharma, P., Georgescu, B., Kamen, A., D., Suci, C., Comaniciu, D. Model Based Non-invasive Estimation of PV Loop from Echocardiography, *Proc. of the 36th Annual Inter. Conf. of the IEEE Engineering in Medicine & Biology Society - EMBC 2014*, Chicago, USA, August 26-30, 2014.
8. **Itu, L. M.**, Sharma, P., Kamen, A., D., Suci, C., Comaniciu, D. A Novel Coupling Algorithm for Computing Blood Flow in Viscoelastic Arterial Models, *Proc. of the 35th Annual Inter. Conf. of the IEEE Engineering in Medicine & Biology Society - EMBC 2013*, Osaka, Japan, July 3-7, 2013, pp. 727-730, ISSN: 1557-170X.
9. **Itu, L. M.**, Sharma, P., Mihalef, V., Kamen, A., Suci, C., Comaniciu, D., A Patient-specific Reduced-order Model for Coronary Circulation, *Proc. of the IEEE Inter. Symp. On Biomedical Imaging - ISBI 2012*, Barceleon, Spain, May 2-5, 2012, pp. 832-835, ISSN: 1945-7928, ISBN: 978-1-4577-1857-1.
10. **Itu, L.M.**, Suci, C., Moldoveanu, F., Postelnicu, A., GPU Accelerated Simulation of Elliptic Partial Differential Equations, *Proc. of the 6th IEEE Inter. Conf. on Intelligent Data*

Teză de doctorat

Titlul: **Utilizarea procesării paralele în modelarea multiscalară a hemodinamicii coronariene**

Data susținerii publice: 11 octombrie 2013

Data ordinului MECTS: 3 decembrie 2013

Brevete de invenție

1. **Itu, L.M.**, Passerini, T., Sharma, P., Redel, T. *Method and System for Enhancing Medical Image-Based Blood Flow Computations Using Physiological Measurements*, US Patent Application US 20170032097, February 2017.
2. Georgescu, B., **Itu, L.M.**, Kamen, A., Mansi, T., Mihalef, V., Passerini, T., Rapaka, S., Sharma, P. *Three-dimensional quantitative heart hemodynamics in medical imaging*, US Patent Application 20160228190 A1, August 2016.
3. Mansi, T., **Itu, L.M.**, Mihalef, V., Neumann, D., Passerini, T., Sharma, P., Comaniciu, D. *Personalized whole-body circulation in medical imaging*, US Patent Application 20160196384, July 2016.
4. **Itu, L.M.**, Passerini, T., Sharma, P. *Method and System for Personalized Non-Invasive Hemodynamic Assessment of Renal Artery Stenosis from Medical Images*, US Patent Application US 20160166209 A1, June 2016.
5. **Itu, L.M.**, Passerini, T., Rapaka, S., Schwemmer, C., Schöbinger, M., Sharma, P. *Method and system for purely geometric machine learning based fractional flow reserve*, World Patent Application WO 2016075331, May 2016.
6. **Itu, L.M.**, Passerini, T., Rapaka, S., Sharma, P., Schwemmer, C., Schoebinger, M., Redel, T., Comaniciu, D. *Synthetic data-driven hemodynamic determination in medical imaging*, US Patent Application US20160148372, May 2016.
7. **Itu, L.M.**, Sharma, P., Sauer, F. *Method and system for prediction of post-stenting hemodynamic metrics for treatment planning of arterial stenosis*, European Patent Application EP 2963574 A3, January 2016.
8. Sharma, P., **Itu, L.M.**, Rapaka, S., Sauer, F. *System and method for mapping patient data from one physiological state to another physiological state*, European Patent Application, EP 2949268 A1, Dec. 2015.
9. **Itu, L.M.**, Sharma, P., Redel, T., Georgescu, B. *Method and System for Non-Invasive Computation of Hemodynamic Indices for Coronary Artery Stenosis*, US Patent Application 61990775, November 2015.
10. Sharma, P., **Itu, L.M.** *Method and system for non-invasive functional assessment of coronary artery stenosis using flow computations in diseased and hypothetical normal anatomical models*, World Patent Application PCT/US2015/025853, November 2015.
11. Sharma, P., **Itu, L.M.** *Method and system for hemodynamic computation in coronary arteries*, World Patent Application WO/2015/164086, September 2015.

12. **Itu, L.M.**, Sharma, P., Kamen, A., Comaniciu, D. *Patient-specific automated tuning of boundary conditions for distal vessel tree*, US Patent Application US 14/167,120, August 2014.
13. **Itu, L.M.**, Sharma, P., Kamen, A., Comaniciu, D., *Viscoelastic modeling of blood vessels*, US Patent Application US 14/025,039, May 2014.
14. Sharma P., Zheng, X., Kamen, A., Itu, L.M., Georgescu, B., Comaniciu, D. *Computation of Hemodynamic Quantities From Angiographic Data*, US Patent Application US 13/937,313, January 2014.
15. **Itu, L.M.**, Sharma, P., Zheng, X., Kamen, A., Suci, C., Comaniciu, D., *A Framework for Personalization of Coronary Flow Computations During Rest and Hyperemia*, World Patent Application WO/2013/138428, September 2013.
16. Ralovich, K., **Itu, L.M.**, Mihalef, V., Sharma, P., Ionasec, R.I., Vitanovski, D., Krawtschuk, W., Comaniciu, D., *Method and System for Hemodynamic Assessment of Aortic Coarctation from Medical Image Data*, US Patent Application 20130243294, September 2013.
17. Sharma, P., **Itu, L.M.**, Kamen, A., Georgescu, X., Zheng, Y., Tek, H., Comaniciu, D., Bernhardt, D., Vega-Higuera, F., Scheuering, M. *Method and System for Non-Invasive Functional Assessment of Coronary Artery Stenosis*, US Patent Application 20130246034, September 2013.
18. Sharma, P., **Itu, L.M.**, Georgescu, B., Mihalef, V., Kamen, A., Comaniciu, D., *Method and system for multi-scale anatomical and functional modeling of coronary circulation*, US Patent Application PCT/US2012/064604, May 2013.

Cărți și capitole în cărți

19. **Itu, L.M.**, Sharma, P., Suci, C. (Eds.) *Patient-specific Hemodynamic Computations: Application to Personalized Diagnosis of Cardiovascular Pathologies*, Springer, Heidelberg, Germany, 2017, 234 pag., ISBN: 78-3-319-56852-2, DOI: 10.1007/978-3-319-56853-9.
20. Margineanu, I., **Itu, L.M.**, Ștefan, I., Itu, A., *Programarea aplicațiilor de timp real*, Editura Universității Transilvania din Brașov, 2016, 353 pag., ISBN: 978-606-19-0751-9.
21. **Itu, L.M.**, *Modelarea personalizată a sistemului cardiovascular*, Editura Universității Transilvania din Brașov, 2015, 186 pag., ISBN: 978-606-19-0580-5.
22. Margineanu, I., Cobeanu, I., **Itu, L.M.**, *Utilizarea Calculatoarelor în Controlul Proceselor. Aplicații*, Editura Universității Transilvania din Brașov, 2010, 193 pag., ISBN: 978-973-598-726-8.
23. Margineanu, I., **Itu, L.M.**, Ștefan, I., Itu, A., *Automate Programabile. Aplicații*, Editura Universității Transilvania din Brașov, 2016, pag., ISBN: 978-606-19-0862-2.
24. Suci, C., **Itu, L.M.**, *Introducere în Rețele Industriale de Comunicație*, Editura Universității Transilvania din Brașov, 2016, 98 pag., ISBN: 978-606-19-0885-1.

Lista lucrărilor publicate în reviste din fluxul științific internațional principal

1. **Itu, L. M.**, Sharma, P., Suci, C., Moldoveanu, F., Comaniciu, D., *Personalized Blood Flow Computations: A Hierarchical Parameter Estimation Framework for Tuning Boundary Conditions*, International Journal on Numerical Methods in Biomedical Engineering, Vol. 33, March 2017, pp. e02803, ISSN: 2040-7947, DOI: 10.1002/cnm.2803 (ISI journal, WOS:000395407900006, FI: 1.849).

2. Neumann, D., Mansi, T., **Itu, L.M.**, Georgescu, B., Kayvanpour, E., Sedaghat-Hamedani, F., Amr, A., Haas, J., Katus, H., Meder, B., Steidl, S., Hornegger, J., Comaniciu, D., A Self-Taught Artificial Agent for Multi-Physics Computational Model Personalization, *Medical Image Analysis*, Vol. 34, Dec. 2016, pp. 52–64, ISSN: 1361-8415, DOI: 10.1016/j.media.2016.04.003 (ISI journal, WOS:000385320800006, FI: 4.565).
3. Calmac, L., Niculescu, R., Badila, E., Weiss, E., Zamfir, D., Penes, D., **Itu, L.M.**, Lazar, L., Carp, M., Itu, A., Suci, C., Passerini, T., Sharma, S., Georgescu, B., Comaniciu, D., A data-driven approach combining image-based anatomical features and resting state measurements for the functional assessment of coronary artery disease, *Journal of the American College of Cardiology*, Vol. 68, November 2016, pp. B212-B213, ISSN: 0735-1097, DOI: 10.1016/j.jacc.2016.09.664 (ISI Journal, WOS:000398590400054, FI: 17.759).
4. **Itu, L. M.**, Rapaka, S., Passerini T., Georgescu, B., Schwemmer, C., Schoebinger, M., Flohr, T., Sharma, P., Comaniciu, D., A Machine Learning Approach for Computation of Fractional Flow Reserve from Coronary Computed Tomography, *Journal of Applied Physiology*, Vol. 121, July 2016, pp. 42-52, ISSN: 8750-7587, DOI: 10.1152/jappphysiol.00752.2015 (ISI journal, WOS:000372013600004, FI: 3.004).
5. **Itu, L.M.**, Passerini, T., Calmac, L., Niculescu, R., Badila, E., Weiss, E., Zamfir, D., Penes, D., Lazar, L., Carp, M., Itu, A., Suci, C., Sharma, S., Georgescu, B., Comaniciu, D., Image-Based Computation of Instantaneous Wave-free Ratio from Routine Coronary Angiography - Evaluation of a Hybrid Decision Making Strategy with FFR, *Journal of the American College of Cardiology*, Vol. 67, April 2016, pp. 328, ISSN: 0735-1097, DOI: 10.1016/S0735-1097(16)30329-1 (ISI Journal, WOS:000375188701172, FI: 17.759).
6. Coenen, A., Lubbersa, M., Kurata, A., Kono, A., Dedic, A., Chelu, R., Dijkshoorn, M., van Geuns, R.J., Schoebinger, M., **Itu, L.M.**, Sharma, P., Nieman, K., Coronary CT angiography derived fractional flow reserve: Methodology and evaluation of a point of care algorithm, *Journal of Cardiovascular Computed Tomography*, Vol. 10, March–April 2016, pp. 105–113, ISSN: 1934-5925, DOI: 10.1016/j.jcct.2015.12.006 (ISI journal, , FI: 2.472).
7. Tröbs, M., Achenbach, S., Röther, J., Redel, T., Scheuering, M., Winneberger, D., Klingenberg, K., **Itu, L.M.**, Passerini, T., Kamen, A., Sharma, P., Comaniciu, D., Schlundt, C., Comparison of Fractional Flow Reserve Based on Computational Fluid Dynamics Modeling Using Coronary Angiographic Vessel Morphology versus Invasively Measured Fractional Flow Reserve, *The American Journal of Cardiology*, Vol. 117, Jan 2016, pp. 29-35, ISSN: 0002-9149, DOI: 10.1016/j.amjcard.2015.10.008 (ISI journal, WOS:000368048900005, FI: 3.154).
8. Calmac, L., Niculescu, R., Badila, E., Weiss, E., Zamfir, D., **Itu, L.M.**, Lazar, L., Carp, M., Itu, A., Suci, C., Passerini, T., Sharma, S., Georgescu, B., Comaniciu, D., Image-Based Computation of Instantaneous Wave-free Ratio from Routine Coronary Angiography - Initial Validation by Invasively Measured Coronary Pressures, *Journal of the American College of Cardiology*, Vol. 66, October 2015, pp. B17-B18, ISSN: 0735-1097, DOI: 10.1016/j.jacc.2015.08.087 (ISI Journal, WOS:000363329000041, FI: 17.759).
9. Ralovich, K., **Itu, L.M.**, Vitanovski, D., Sharma, P., Ionasec, R., Mihalef, V., Krawtschuk, W., Zheng, Y., Everett, A., Pongiglione, G., Leonardi, B., Ringel, R., Navab N., Heimann, T., Comaniciu, D., Noninvasive hemodynamic assessment, treatment outcome prediction and follow-up of aortic coarctation from MR imaging, *Medical Physics*, Vol. 42, April 2015, pp. 2143-2156, ISSN: 2473-4209, DOI: 10.1118/1.4914856 (ISI journal, WOS:000354776800006, FI: 2.496).

10. **Itu, L. M.**, Sharma, P., Passerini T., Kamen, A., D., Suci, C., Comaniciu, D., A Parameter Estimation Framework for Patient-specific Hemodynamic Computations, Journal of Computational Physics, Vol. 281, Jan, 2015, pp. 316-333, ISSN 0021-9991, DOI: 10.1016/j.jcp.2014.10.034 (ISI journal, WOS:000346429300018, FI: 2.556).
11. Schlundt, C., Redel, T., Scheuring, M., Groke, D., Klingenberg, K., **Itu, L.M.**, Sharma, P., Kamen, A., Comaniciu, D., Achenbach, S. Model-Based Determination of Fractional Flow Reserve Based on Coronary Angiography–Initial Validation by Invasively Measured FFR, Journal of the American College of Cardiology, Vol. 64, September 2014, pp. B96-B97, ISSN: 0735-1097, DOI: 10.1016/j.jacc.2014.07.380 (ISI Journal, WOS:000359649700330, FI: 17.759).
12. **Itu, L. M.**, Sharma, P., Kamen, A., D., Suci, C., Comaniciu, D., Graphics Processing Unit Accelerated One-Dimensional Blood Flow Computation in the Human Arterial Tree, International Journal on Numerical Methods in Biomedical Engineering, Vol. 29, December, 2013, pp. 1428 – 1455, ISSN: 2040-7947, DOI: 10.1002/cnm.2585 (ISI journal, WOS:000327732300008, FI: 1.849).
13. **Itu, L. M.**, Sharma, P., Ralovich, K., Mihalef, V., Ionasec, R., Everett, A., Ringel, R., Kamen, A., Comaniciu, D., Non-invasive Hemodynamic Assessment of Aortic Coarctation: Validation with in-vivo Measurements, Annals of Biomedical Engineering, Vol. 41, April, 2013, pp. 669-681, ISSN: 1573-9686, DOI: 10.1007/s10439-012-0715-0 (ISI journal, WOS:000316566400002, FI: 2.887).

Lista lucrărilor publicate în volumele principalelor conferințe internaționale de specialitate

1. Nita, C., Stroia, I., **Itu, L.M.**, Suci, C., Mihalef, V., Datar, M., Rapaka, S., Sharma, P. GPU accelerated, robust method for voxelization of solid objects, 20th IEEE High Performance Extreme Computing Conference, Waltham, MA, USA, Sept. 13-15, 2016, pp. 50-55, ISBN: 978-1-5090-3526-7 (ISI Proceedings, WOS:000391407100006)
2. Vizitiu, A., **Itu, L.M.**, Joyseeree, R., Depeursinge, A., Muller, H., Suci, C. GPU–Accelerated Texture Analysis Using Steerable Riesz Wavelets, 24th Euromicro International Conference on Parallel, Distributed, and Network-Based Processing – PDP 2016, Heraklion Crete, Greece, February 17-19, 2016, pp. 56-61, ISSN: 2377-5750 (ISI Proceedings, WOS:000381810900066)
3. Iacob, A., **Itu, L.M.**, Sasu, L., Moldoveanu, F., Suci, C., GPU Accelerated Information Retrieval Using Bloom Filters, Proceedings of the 19th International Conference on System Theory, Control and Computing – ICSTCC 2015, Cheile Grădiștei – Fundata, Romania, October 14÷16, 2015, pp. 872÷876, ISBN: 978-1-4799-8481-7 (ISI Proceedings, WOS:000382384100145)
4. Stroia, I., **Itu, L.M.**, Niță, C, Lazăr, L., Suci, C. GPU Accelerated Geometric Multigrid Method: Performance Comparison on Different Architectures, 19th Inter. Conf. on System Theory, Control and Computing - ICSTCC 2015, Sinaia, Romania, October 14-16, 2015, pp. 175-179, ISBN: 978-1-4799-8482-4 (ISI Proceedings, WOS:000382384100030)
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