

**LISTA PUBLICAȚIILOR ELABORATE ÎN CADRUL PROGRAMULUI DE
CERCETARE DOCTORALĂ SUB AFILIERE UPT
Ing. Alin-Florin TOTOREAN doctorand**

- [1] S.I. Bernad, **A.F. Totorean**, L. Vekas, "Particles deposition induced by the magnetic field in the coronary bypass graft model", *Journal of Magnetism and Magnetic Materials*, vol. 401, p. 269-286, 2016, WOS:000366585200041 (jurnal indexat ISI FI=1,97).
- [2] **A.F. Totorean**, S.I. Bernad, R.F. Susan-Resiga, "Fluid Dynamics in helical geometries with applications for bypass grafts", *Applied Mathematics and Computation*, vol. 272 (3), p. 604-613, 2016, WOS:000364991600004 (jurnal indexat ISI FI=1,551).
- [3] **A.F. Totorean**, S.I. Bernad, R.F. Susan-Resiga, "The influence of stenosis degrees and graft suture position on local hemodynamics of coronary bypass", ICNAAM 2015 – 13th International Conference of Numerical Analysis and Applied Mathematics – 10th International Symposium on Numerical Analysis of Fluid Flow and Heat Transfer – Numerical Fluids Symposium 2015, Rodos, Grecia, 23-29 Septembrie 2015 (în curs de publicare - ISI).
- [4] S.I. Bernad, A. Bosioc, E.S. Bernad, I. Petre, **A.F. Totorean**, "Flow characteristics in narrowed coronary bypass graft", ICNAAM 2015 – 13th International Conference of Numerical Analysis and Applied Mathematics – 10th International Symposium on Numerical Analysis of Fluid Flow and Heat Transfer – Numerical Fluids Symposium 2015, Rodos, Grecia, 23-29 Septembrie 2015 (în curs de publicare - ISI).
- [5] S.I. Bernad, **A.F. Totorean**, A.I. Bosioc, I. Petre, E.S. Bernad, "Stent implantation influence wall shear stress evolution", ICNAAM 2015 – 13th International Conference of Numerical Analysis and Applied Mathematics – 10th International Symposium on Numerical Analysis of Fluid Flow and Heat Transfer – Numerical Fluids Symposium 2015, Rodos, Grecia, 23-29 Septembrie 2015 (în curs de publicare - ISI).
- [6] **A. F. Totorean**, A. I. Bosioc, S. I. Bernad, R. Susan-Resiga, "Critical flow regions in the coronary by-pass graft anastomosis", *Proceedings of the Romanian Academy, Series A, Volum 16 (2)*, pp. 201–208, 2015, WOS:000357362300011, (jurnal indexat ISI FI=1,658).
- [7] S.I. Bernad, E.S. Bernad, **A.F. Totorean**, M.L. Craina, I. Sargan, "Clinical Important Hemodynamic Characteristics For Serial Stenosed Coronary Artery", *International Journal of Design & Nature and Ecodynamics*, vol 10 (2), p. 97-113, 2015, WIT Press, DOI: 10.2495/DNE-V10-N2-97-113 (Scopus).
- [8] **A.F. Totorean**, C.I. Hudrea, S. Bernad, "Multidisciplinary approach in bypass surgery planning", *Workshop Multifunctional nanoparticles, magnetically controllable fluids, complex flows, engineering and biomedical applications - Timisoara Academic Days 2015*, 25-26 Iulie 2015, Timisoara, Romania (lucrare prezentată).
- [9] **A.F. Totorean**, S.I. Bernad, A. Bosioc, I.C. Hudrea, E.S. Bernad, R.F. Susan-Resiga, "The Influence of Number of Turns to Helicity Variations at the Outlet Sections in Helical Geometries with Applications for By-pass Graft", *International Conference of Computational Methods in Sciences and Engineering 2015 (ICCMSE 2015)*, Atena, Grecia, Martie 2015, AIP Conf. Proc. Vol. 1702, p. 080007-1 – 080007-4, 2015, WOS:000371804300033 (ISI).
- [10] E.S. Bernad, S.I. Bernad, **A.F. Totorean**, C.I. Hudrea, A.I. Bosioc, N. Crainic, "Fluid Dynamics in 45 degrees Arterial By-pass Model", *International Conference of Computational Methods in Sciences and Engineering 2015 (ICCMSE 2015)*, Atena, Grecia, Martie 2015, AIP Conf. Proc. Vol. 1702, p. 080010-1 - 080010-4, 2015, WOS:000371804300036 (ISI).

- [11] S. I. Bernad, **A.F. Totorean**, A. Bosioc, N. Crainic, I.C. Hudrea, E. S. Bernad, "Fluid Mechanics in Stented Arterial Model", International Conference of Computational Methods in Sciences and Engineering 2015 (ICCMSE 2015), Atena, Grecia, Martie 2015, AIP Conf. Proc. Vol. 1702, p. 080008-1 - 080008-4, 2015, WOS:000371804300034 (ISI).
- [12] E.S. Bernad, C.I. Hudrea, S.I. Bernad, **A.F. Totorean**, A. I. Bosioc, "Luminal Flow Alteration in Presence of the Stent", International Conference of Computational Methods in Sciences and Engineering 2015 (ICCMSE 2015), Atena, Grecia, Martie 2015, AIP Conf. Proc. Vol. 1702, p. 080011-1 - 080011-4, 2015, WOS:000371804300037 (ISI).
- [13] **A. F. Totorean**, A. I. Bosioc, S. I. Bernad, R. Susan-Resiga, "Identification and visualization of vortices in by-pass graft flow", Proceedings of the Romanian Academy, Series A, Vol. 15 (1), pp. 52-59, 2014, WOS:000333795600007 (jurnal indexat ISI FI=1,115).
- [14] **A.F. Totorean**, S. Bernad, R. Susan-Resiga, "Hemodynamic analyses of blood flow through helical bypass grafts", GRoWTH 10 - German-Romanian Workshop on Turbomachinery Hydrodynamics 15 - 19 Iulie 2014, Stuttgart, Germania (lucrare prezentată).
- [15] **A.F. Totorean**, S. Bernad, R. Susan-Resiga, "A helical pipe investigation from a cardiovascular perspective", Proceedings of the International Conference on Numerical Analysis and Applied Mathematics 2014 (ICNAAM 2014), Rodos, Grecia, Septembrie 2014, AIP Conf. Proc. Vol. 1648, p. 030033-1 – 030033-4, 2014, WOS:000355339700045 (ISI).
- [16] S. Bernad, A.I. Bosioc, **A. Totorean**, R. Stanciu, E. Bernad, "Numerical investigation of Dean vortices in a curved pipe", 11th International Conference of Numerical Analysis and Applied Mathematics 2013, Rodos, Grecia, Septembrie 2013, AIP Conf. Proc. Vol. 1558, p. 172-175, 2013, WOS:000331472800041 (ISI).
- [17] S. Bernad, A.I. Bosioc, **A. Totorean**, R. Stanciu, E. Bernad, "Vortices in by-pass graft flow", 11th International Conference of Numerical Analysis and Applied Mathematics 2013, Rodos, Grecia, Septembrie 2013, AIP Conf. Proc. Vol. 1558, p. 160-163, 2013, WOS:000331472800038 (ISI).
- [18] S. Bernad, **A. Totorean**, E. Bernad, R. Susan-Resiga, "Particle motion in coronary serial stenoses", 10th International Conference on Modelling in Medicine and Biology (BIOMED 2013), Budapesta, Ungaria, Aprilie 2013, WIT Transaction on Biomedicine and Health vol. 17, WIT Press, p. 169-180, 2013, DOI: 10.2495/BIO130151 (Scopus).
- [19] S. Bernad, **A. Totorean**, E. Bernad, R. Susan-Resiga, "Flow in re-stenosed artery after angioplasty", 1st International Conference on data Management and Security: Applications in Medicine, Sciences and Engineering (DATA 2013), Elche, Alicante, Spania, Mai 2013, WIT Transaction on Information and Communication Technologies vol 45, p. 209-220, 2013, DOI: 10.2495/DATA130191 (Scopus).

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