



CURRICULUM VITAE

Dalibor Nikolic

GENERAL INFORMATION

First and last name	Dalibor Nikolic
Year and place of birth	1985, Kragujevac
Position	Scientific Associate
e-mail/web site	markovac85@kg.ac.rs
Telephone	+381-64-14-602-53
Education-scientific / education –art field	Technical science
University, faculty, organizational unit	University of Kragujevac/ Faculty of Mechanical Engineering
Field and closer specialty	Informatics in Mechanical Engineering, Bioengineering

EDUCATION – DIPLOMAS

MSC THESIS	
Year	2011
Place	Kragujevac
Institution	Faculty of Mechanical Engineering
Title of MSC thesis	The application software solutions to the “DICOM” images in clinical practice
Field	Informatics in Mechanical Engineering
PHD THESIS	
Year	2017
Place	Kragujevac
Institution	Faculty of Engineering University of Kragujevac
Title of PHD thesis	Computer modeling and optimization of stent design
Field	Applied informatics and computational engineering

TECHNICAL BIOGRAPHY – POSITIONS

Year	Institution	Position
2011	BioIRC - Bioengineering Research and Development Center	Research Associate
2019	Faculty of Engineering University of Kragujevac	Scientific Associate

PROFESSIONAL BIOGRAPHY - IMPROVEMENTS

Year	Institution	Duration
2012	ARTreat Workshop, Athens, Greece	5 days
2014	SCOPES Workshop, Fribourg, Switzerland	4 days
2015	SCOPES Workshop, Fribourg, Switzerland	4 days
2017	Medis Lab, QFA course, Leiden, Nederland	6 days
2017	CMBEBIH Workshop, Sarajevo, BIH	4 days
2019	MD&M West, Workshop, Los Angeles	7 days

RESULTS OF SCIENTIFIC AND RESEARCH WORK

List of results M13 Monographic study / book chapter M11	No 2	
<ol style="list-style-type: none">1. Nenad Filipovic, Milos Radovic, Velibor Isailovic, Zarko Milosevic, Dalibor Nikolic, Igor Saveljic, Tijana Djukic, Exarchos Themis, Dimitris Fotiadis, Oberdan Parodi, Title: Computer Modeling of Atherosclerosis, Book title: Computational Medicine in Data Mining and Modeling, 2013, pp 233-308, doi: 10.1007/978-1-4614-8785-2_72. Nenad Filipovic, Zarko Milosevic, Igor Saveljic, Dalibor Nikolic, Milos Radovic, Computer Modeling of Stent Deployment in the Coronary Artery Coupled with Plaque Progression. In: Zivic F., Affatato S., Trajanovic M., Schnabelrauch M., Grujovic N., Choy K. (eds) Biomaterials in Clinical Practice, Springer, Cham, (2018). doi.org/10.1007/978-3-319-68025-5_25		

List of results M14 Monographic study / book chapter M12	No 2	
<ol style="list-style-type: none">1. Bojana Andjelkovic Cirkovic, Velibor Isailovic, Dalibor Nikolic, Igor Saveljic, Oberdan Parodi, Nenad Filipovic, Prediction of Coronary Plaque Progression Using Data Driven Approach, Future Access Enablers for Ubiquitous and Intelligent Infrastructures, Springer Cham, (2017). DOI: 10.1007/978-3-319-92213-3_332. Nenad Filipovic, Milos Radovic, Dalibor Nikolic, Igor Saveljic, Zarko Milosevic, Themis P. Exarchos, Gualtiero Pelosi, Dimitrios I. Fotiadis and Oberdan Parodi, Computer Predictive Model for Plaque Formation and Progression in the Artery, Coronary and Cardiothoracic Critical Care: Breakthroughs in Research and Practice, IGI Global (2019), DOI: 10.4018/978-1-5225-8185-7.ch012		

List of results M21 Work in the leading journal of international importance	No 6	
<ol style="list-style-type: none">1. Dalibor Nikolić, Miloš Radović, Srđan Aleksandrić, Miloje Tomasević, Nenad Filipović, Prediction of coronary plaque location on arteries having myocardial bridge, using finite element models. Computer Methods and Programs in Biomedicine, Vol. 117, No. 2, pp. 137-144, doi: http://dx.doi.org/10.1016/j.cmpb.2014.07.012, ISSN 0169-2607, 20142. Filipovic, N, Gibney, B.C., Kojic, M., Nikolic, D., Isailovic, V., Ysasi, A., Konerding, M.A., Mentzer, S.J., Tsuda, A., A. Mapping cyclic stretch in the postpneumonectomy murine lung. Journal of Applied Physiology. Vol. 115, No. 9, pp. 1370-1378. doi:10.1152/jappphysiol.00635.2013, ISSN: 8750-7587, 20133. Nenad Filipovic, Dalibor Nikolic, Igor Saveljic, Zarko Milosevic, Themis Exarchos, Gualtiero Pelosi and Oberdan Parodi, Computer simulation of three dimensional plaque formation and progression in the coronary artery, Computers and Fluids, Vol. 88, pp. 826–833, doi: http://dx.doi.org/10.1016/j.compfluid.2013.07.006, ISSN: 0045-7930, 2013.4. Aleksa Janovic, Petar Milovanovic, Igor Saveljic, Dalibor Nikolic, Michael Hahn, Zoran Rakocevic, Nenad Filipovic, Michael Amling, Bjoern Busse, Marija Djuric, Microstructural properties of the mid-facial bones in relation to the distribution of occlusal loading, Bone, Vol. 68, pp. 108-114, doi: http://dx.doi.org/10.1016/j.bone.2014.07.032, ISSN: 8756-3282, 2014.5. Oberdan Parodi, Themis P Exarchos, Paolo Marraccini, Federico Vozzi, Zarko Milosevic, Dalibor Nikolic, Antonis Sakellarios, Panagiotis K Siogkas, Dimitrios I Fotiadis, Nenad Filipovic, Patient-Specific Prediction of Coronary Plaque Growth From CTA Angiography: A Multiscale Model for Plaque Formation and Progression. IEEE transactions on information technology in biomedicine: a publication of the IEEE Engineering in Medicine and Biology Society, Vol. 16, No. 5, pp. 952-65., doi:10.1109/TITB.2012.2201732, ISSN:1089-7771, 2012.6. Nenad Filipovic, Mirko Rosic, Irena Tanaskovic, Zarko Milosevic, Dalibor Nikolic, Nebojsa Zdravkovic, Aleksandar Peulic, Milos R Kojic, Dimitris I Fotiadis, Oberdan Parodi: ARTreat Project: Three-Dimensional Numerical Simulation of Plaque Formation and Development in the Arteries. IEEE transactions on information technology in biomedicine: a publication of the IEEE Engineering in Medicine and Biology Society, Vol. 16, No. 2, pp. 272-278, doi:10.1109/TITB.2011.2168418, ISSN:1089-7771, 2012		

List of results M22 The work in the journal of international importance	No 3	
<ol style="list-style-type: none"> 1. Filipovic N, Nikolic D, Saveljic I, Tanaskovic I, Zdravkovic N, Zivanovic A, Arsenijevic P, Jeremic B and Arsenijevic S, Computer simulation of cervical tissue response to a hydraulic dilator device, <i>Theoretical Biology and Medical Modelling</i>, Vol. 10, No. 64, doi: 10.1186/1742-4682-10-64, ISSN: 1742-4682, 2013. 2. Aleksa Janovic, Igor Saveljic, Arso Vukicevic, Dalibor Nikolic, Zoran Rakocevic, Gordana Jovicic, Nenad Filipovic, Marija Djuric, Occlusal load distribution through the cortical and trabecular bone of the human mid-facial skeleton in natural dentition: A three-dimensional finite element study, <i>Annals of Anatomy</i>, Vol. 139, pp. 16–23, doi: http://dx.doi.org/10.1016/j.aanat.2014.09.002, ISSN: 0940-9602, 2014. 3. Svetlana Antic, Igor Saveljic, Dalibor Nikolic, Gordana Jovicic, Nenad Filipovic, Zoran Rakocevic, Marija Djuric, Does the presence of an unerupted lower third molar influence the risk of mandibular angle and condylar fractures?, <i>International Journal of Oral and Maxillofacial Surgery</i>, Vol. 45, No. 5, pp. 588-592, doi: http://dx.doi.org/10.1016/j.ijom.2014.09.018, ISSN: 0901-5027, 2016. 		

List of results M23 The work in the international journal	No 6	
<ol style="list-style-type: none"> 1. Filipovic N, Nikolic D, Saveljic I, Djukic T, Adjic O, Kovacevic P, Cemerlic-Adjic N, Velicki L, Computer simulation of thromboexclusion of the complete aorta in the treatment of chronic type B aneurysm, <i>Computer Aided Surgery</i>, Vol. 18, No. 1-2, pp. 1-9, doi: 10.3109/10929088.2012.741145, ISSN: 1092-9088, 2013. 2. Nenad Filipovic, Igor Saveljic, Dalibor Nikolic, Zarko Milosevic, Pavle Kovacevic, Lazar Velicki, Numerical simulation of blood flow and plaque progression in carotid-carotid bypass patient specific case, <i>Computer Aided Surgery</i>, Vol. 20, No. 1, pp. 1-6, doi: 10.3109/10929088.2015.1076036, ISSN: 1092-9088, 2015. 3. Filipovic, N., Isailovic, V., Nikolic, D., Peulic, A., Mijailovic, N., Petrovic, S., Cukovic, S., Vulovic, R., Matic, A., Zdravkovic, N., Devedzic, G., Ristic, B., Biomechanical Modeling of Knee for Specific Patients with Chronic Anterior Cruciate Ligament Injury, <i>Computer Science and Information Systems, ComSIS</i>, Vol. 10, No. 1, pp. 525-545, DOI:10.2298/CSIS120531014F, ISSN 1820-0214, 2013 4. Milovan Matovic, Dalibor Nikolic, Nenad Filipovic, Marija Jeremic, Slobodan M. Jankovic, Srdjan Ninkovic, Aleksandar Cvetkovic, Marina Vlajkovic, Ana Rankovic (2017) An innovative method for precise lymph node detection before surgical treatment in breast cancer, <i>Hellenic journal of nuclear medicine</i> vol. 20, no. 2, pp. 176-178, DOI: 10.1967/s002449910555 5. Igor B. Koncar, Dalibor Nikolic, Zarko Milosevic, Nikola Ilic, Marko Dragas, Milos Sladojevic, Miroslav Markovic, Nenad Filipovic, Lazar Davidovic, (2017) Morphological and Biomechanical Features in Abdominal Aortic Aneurysm with Long and Short Neck—Case- Control Study in 64 Abdominal Aortic Aneurysms, <i>Annals of Vascular Surgery</i>, vol. 45, no. , pp. 223-230, DOI: 10.1016/j.avsg.2017.06.054 6. Nebojsa Zdravkovic, Zarko Milosevic, Igor Saveljic, Dalibor Nikolic, Vladimir Miloradovic, Nenad Filipovic, Three-Dimensional Biomechanical Model of Benign Paroxysmal Positional Vertigo in the Semi-Circular Canal, <i>Tehnicki vjesnik-technical gazette</i>, (2017), vol. 24, str. 1769-1775, doi.org/10.17559/TV-20160723152540. 		

List of results M24 The work in the journal of international importance	No 1	
<ol style="list-style-type: none"> 1. Maja Milosevic, Nikola Mijailovic, Dalibor Nikolic, Nenad Filipovic, Aleksandar Peulic, Mirko Rosic and Suzana Pantovic (2018), Manufacturing of Biodegradable Scaffolds to Engineer Artificial Blood Vessel, <i>Serbian Journal of Experimental and Clinical Research</i>, vol. 19, no. 3, pp. 215-221, DOI: 10.1515/sjecr-2017-0032 		

List of results M33 Paper presented on conference with international importance (published)	No 36	
<ol style="list-style-type: none"> 1. Filipovic N, Teng Z, Milosevic Z, Nikolic D, Radovic M, Saveljic I, Exarchos T, Fotiadis DI, Gillard J, Parodi O, Computer simulation of three-dimensional plaque formation and progression in the carotid artery. EAS 2012, the 80th European Atherosclerosis Society Congress, May 25-28, 2012, Milan, Italy. 2. Filipovic N, Nikolic D, Milosevic Z, Saveljic I, Tanaskovic I, Colic M, Rosic M: Experimental and computational LDL transport model through arterial wall. COST Action MP1005; 2nd Joint Meeting, September 4-5, 2012, Vienna, 		

Austria.

3. Igor Saveljic, Aleksa Janovic, Dalibor Nikolic, Zoran Rakocevic, Marija Djuric and Nenad Filipovic, Finite element analysis of the facial skeleton on simulated occlusal loading, Fourth Serbian (29th Yu) Congress on Theoretical and Applied Mechanics, 4-7 June 2013, Vrnjačka Banja, Serbia, ISSN 978-86-909973-5-0, COBISS.SR-ID 198308876.
4. L. Velicki, N. Čemerlić-Ađić, R. Jung, N. Tomić, O. Ađić, D. Nikolić, I. Saveljić, D. Milašinović, N. Filipović, Evaluation of borderline coronary lesions using noninvasive computed fractional flow reserve, 4th International Congress of Serbian Society of Mechanics, June 4-7, 2013, Vrnjačka Banja, Serbia, ISSN 978-86-909973-5-0, COBISS.SR-ID 198308876.
5. Z. Milošević, D. Nikolić, I. Saveljić, M. Radović, T. Exarchos, O. Parodi, N. Filipović, Three-dimensional computer modeling of plaque formation and ldl transport within artery and through the vessel wall, 4th International Congress of Serbian Society of Mechanics, June 4-7, 2013, Vrnjačka Banja, Serbia, ISSN 978-86-909973-5-0, COBISS.SR-ID 198308876.
6. Aleksa Janovic, Petar Milovanovic, Igor Saveljic, Dalibor Nikolic, Michael Hahn, Bjoern Busse, Zoran Rakocevic, Nenad Filipovic, Michael Amling & Marija Djuric, Microstructural adaptation of bone tissue of the facial skeleton to the distribution of occlusal load under physiological conditions, European Calcified Tissue Society Conference ECTS, 18-21 May 2013, Lisbon, Portugal. Bone Abstracts Vol, doi: 10.1530/boneabs.1.PP51
7. Z. Milosevic, M. Radovic, D. Nikolic, I. Saveljic, V. Isailovic, M. Obradovic, D. Petrovic, E. Themis, D. Fotiadis, W. Pelosi, O. Parodi, M. Kojic and N. Filipovic, Plaque Formation Modeling – from Animal to Human Studies. SEECM III, 3rd South-East European Conference on Computational Mechanics - an ECCOMAS and IACM Special Interest Conference, M. Papadrakakis, M. Kojic, I. Tuncer (eds.), 12–14 June 2013, Kos Island, Greece.
8. Nenad Filipovic, Dalibor Nikolic, Zarko Milosevic, Milos Radovic, Igor Saveljic, Themis Exarcous, Dimitris Fotiadis, Walter Pelosi and Oberdan Parodi, Plaque progression modeling by using computer simulation and imaging data, Biomedical Engineering, February 13-15, 2013, Innsbruck, Austria.
9. Velibor Isailovic, Milica Obradovic, Dalibor Nikolic, Igor Saveljic, and Nenad D. Filipovic, SIFEM project: Finite element modeling of the cochlea, Bioinformatics and Bioengineering (BIBE), 2013 IEEE 13th International Conference on, 10-13 Nov. 2013, Chania, Greece.
10. Velibor Isailovic, Milica Nikolic, Zarko Milosevic, Igor Saveljic, Dalibor Nikolic, Milos Radovic and Nenad Filipovic, Finite Element Coiled Cochlea Model, 12th Mechanics of Hearing, 23-28 June 2014, Greece
11. Nenad Filipovic, Igor Saveljic, Zarko Milosevic and Nebojsa Zdravkovic, Caloric Test Simulation in the Three Semicircular Canal, "REDEOR", 25-27 March 2015, Venice, Italy
12. V. Isailovic, M. Nikolic, Z. Milosevic, I. Saveljic, D. Nikolic, M. Radovic, and N. Filipović, Modeling of the coiled cochlea and organ of corti - using for the cochlear implants, ESAO 2015, Leuven, Belgium, on September 2nd – 5th 2015.
13. D. Nikolic, I. Saveljic, M. Radovic, S. Aleksandric, M. Tomasevic, N. Filipovic, Prediction of coronary plaque position on the arteries with myocardial bridge-neural network, 65th International Congress of the European Society of Cardiovascular and Endovascular Surgery, Belgrade, Serbia, April 21-24, 2016
14. Ž. Milošević, D. Nikolić, I. Saveljić, V. Isailović, T. Bibas N. Filipović, Three-dimensional biomechanical and visualisation model of vertigo disease in the semi-circular canal, IX International scientific conference contemporary materials, Banja Luka, 2016, sept. 4-5
15. V. Isailovic, M. Nikolic, D. Nikolic, I. Saveljic, N. Filipovic, "Using of Finite Element Method for Modeling of Mechanical Response of Cochlea and Organ of Corti", ICIST 2016 6th International Conference on Information Society and Technology, ICIST 2016, (2016), 28.02.-02.03., Kopaonik, Serbia, Proceedings, Vol. 1, pp. 102- 105
16. Dalibor Nikolić, Igor Saveljić, Miloš Radović, Srđan Aleksandrić, Miloje Tomašević, Vesna Ranković, Nenad Filipović, Prediction of wall shear stress in the arteries with myocardial bridge by neural networks, ICIST 2015 5th International Conference on Information Society and Technology, (2015), 08.-11.03., Kopaonik, Serbia, Proceedings, Vol. 1, pp. 219-222
17. V. Isailovic, M. Nikolic, Z. Milosevic, I. Saveljic, D. Nikolic, M. Radovic, N. Filipovic, Finite Element Model of Cochlea – Air Conduction and Bone Conduction, ICIST 2015 5th International Conference on Information Society and Technology, (2015), 08.- 11.03., Kopaonik, Serbia, Proceedings, Vol. 1, pp. 19-21
18. Igor Saveljic, Lazar Velicki, Ilija Srdanovic, Aleksandar Redzek, Stamneko Susak, Dalibor Nikolic, Nenad Filipovic, Decision support system for selecting optimal coronary revascularization strategy, The 14th International Symposium, Computer Methods in Biomechanics and Biomedical Engineering, Tel Aviv, Israel, September 20–22, 2016.
19. Žarko Milošević, Velibor Isailović, Igor Saveljić, Dalibor Nikolić, Vladislava Stojić, Nebojša Zdravković, Dušan Pavlović, Nenad Filipović, Finite Element Modeling of Benign Paroxysmal Positional Vertigo Disease, 4th South-

- East European Conference on Computational Mechanics - SEECCM 2017, 3-5 July, 2017, Kragujevac, Serbia
20. Dalibor Nikolić, Nenad Filipović, Geometry Optimization of Nitinol Stent Design and Effects on Mechanical Performance: Finite Element Analysis, 4th South-East European Conference on Computational Mechanics - SEECCM 2017, Kragujevac, Serbia, July 3-5, 2017.
 21. V. Isailovic, Z. Milosevic, D. Nikolic, I. Saveljic, M. Nikolic, M. Gacic, B. Cirkovic-Andjelkovic, T. Exarchos, D. I. Fotiadis, G. Pelosi, O. Parodi, N. Filipovic, "Coupled computer modeling of atherosclerosis development in the coronary arteries", BIBE 2017, 17th IEEE International Conference on BioInformatics and BioEngineering, Washington D.C., USA, October 23-25, 2017
 22. Cirkovic, V. Isailovic, D. Nikolic, I. Saveljic, O. Parodi, N. Filipovic, "Prediction of Coronary Plaque Progression Using Data Driven Approach", 3rd EAI International Conference on Future Access Enablers of Ubiquitous and Intelligent Infrastructures, Fabulous 2017, Bucharest, Romania, October 12-14, 2017
 23. Nenad Filipovic, Velibor Isailovic, Zarko Milosevic, Dalibor Nikolic, Igor Saveljic, Milica Nikolic, Bojana Cirkovic-Andjelkovic, Exarchos Themis, Dimitris Fotiadis, Gualtiero Pelosi, Oberdan Parodi, Computer Modeling of Atherosclerosis in the Human Arteries, International Conference on Innovative Technologies, IN-TECH 2017, Ljubljana, Slovenia, September 13-15, 2017
 24. Nenad Filipovic, Velibor Isailovic, Zarko Milosevic, Dalibor Nikolic, Igor Saveljic, Milos Radovic, Milica Nikolic, Bojana Cirkovic-Andjelkovic, Exarchos Themis, Dimitris Fotiadis, Gualtiero Pelosi, Oberdan Parodi, "Computational modeling of plaque development in the coronary arteries", Proceedings of the International Conference on Medical and Biological Engineering CMBEBIH, Sarajevo, Bosnia and Herzegovina, March 16-18, 2017
 25. Filipovic, I. Saveljic, D. Nikolic, Z. Milosevic, V. Isailovic, O. Parodi, N. Zdravkovic, "Continuum-discrete modelling of plaque development in the coronary arteries", 23rd Congress of the European Society of Biomechanics ESB, Seville, Spain, July 02-05, 2017
 26. Nenad Filipovic, Arso Vukicevic, Velibor Isailovic, Dalibor Nikolic, Zarko Milosevic, Igor Saveljic, Nikola Jagic, Oberdan Parodi, Simulation of fractional flow reserve and plaque development in the coronary arteries, 7th International Conference on Computational Bioengineering, Compiègne, France, 6-8 September, 2017
 27. N. Filipovic, V. Isailovic, Z. Milosevic, D. Nikolic, I. Saveljic, M. Nikolic, B. Cirkovic-Andjelkovic, M. Radovic, T. Exarchos, D. Fotiadis, G. Pelosi, O. Parodi, "Modeling of plaque development in the coronary arteries", Computer Assisted Radiology and Surgery - CARS 2017, Barcelona, Spain, June 20-24, 2017
 28. N. Filipovic, V. Isailovic, Z. Milosevic, D. Nikolic, I. Saveljic, M. Nikolic, B. Cirkovic-Andjelkovic, N. Jagic, E. Themis, D. Fotiadis, G. Pelosi, O. Parodi, Computational Modeling for Plaque Progression and Fractional Flow Reserve in the Coronary Arteries, 6th International Congress of Serbian Society of Mechanics, (2017), June 19-21, Tara, Serbia, Proceedings, pp. 164, abstract, USB paper M3g
 29. Nenad Filipovic, Velibor Isailovic, Dalibor Nikolic, Igor Saveljic, Zarko Milosevic, Antonis Sakellarios and Themis Exarchos, In silico stent deployment in the coronary artery with plaque progression, VPH2018: VIRTUAL PHYSIOLOGICAL HUMAN 2018, Zaragoza, Spain, September 05-07, 2018
 30. Dan Krsmanovich, Igor Saveljic, Dalibor Nikolic, Velibor Isailovic, Milica Nikolic, Zarko Milosevic, Gordana Jovicic, Dobrica Milovanovic, Antonis Salellarios, Themis Exarchos, Nenad Filipovic, Numerical model of stent deployment in the stenosed artery and modeling of atherosclerosis growing, 8th World Congress of Biomechanics (WCB2018), Dublin, Ireland, July 08-12, 2018
 31. I. Saveljic, D. Nikolic, Z. Milosevic, V. Isailovic, M. Nikolic, O. Parodi, N. Filipovic, "3D Modeling of Plaque Progression in the Human Coronary Artery", 18th International Conference on Experimental Mechanics (ICEM 2018), Brussels, Belgium, July 01-05, 2018
 32. I. Saveljic, V. Isailovic, Z. Milosevic, D. Nikolic, M. Nikolic, B. Cirkovic-Andjelkovic, E. Themis, D. Fotiadis, G. Pelosi, O. Parodi and N. Filipovic, Numerical simulation of atherosclerotic plaque growth in right coronary arteries, International Congress on Computational Mechanics (9th GRACM), Chania, Greece, June 04-06, 2018
 33. Nenad Filipovic, Igor Saveljic, Dalibor Nikolic, Zarko Milosevic, Milica Nikolic, Antonis, Sakellarios, Themis Exarchos and Oberdan Parodi, Computational Modeling for Plaque Progression in the Coronary Artery, Stent Deployment Modeling Using Contact Algorithm, 2018 IEEE International Conference on Biomedical and Health Informatics, Las Vegas, NV, USA, March 4-7, 2018
 34. Igor Saveljic, Dalibor Nikolic, Zarko Milosevic, Milica Nikolic, Antonis Sakellarios, Themis Exarchos and Nenad Filipovic, Numerical simulation of blood flow and plaque progression in the right coronary artery, 2018 IEEE International Conference on Biomedical and Health Informatics, Las Vegas, NV, USA, March 4-7, 2018
 35. Igor Saveljic, Dalibor Nikolic, Tijana Djukić, Nenad Filipović, Numerical model of the bio molecular parameters transfer through the coronary artery wall, 7th international congress of Serbian Society of Mechanics 24-26 June

2019, Sremski Karlovci, Serbia

36. Dalibor Nikolić, Igor Saveljić, Nenad Filipović, Combining numerical methods and parametric optimization of stent design, 7th international congress of Serbian Society of Mechanics 24-26 June 2019, Sremski Karlovci, Serbia

List of results M34 Paper presented on conference with international importance (published abstract)	No 1	
1. Dalibor Nikolic, Dejan Krsmanovic and Nenad Filipovic, Geometry Optimization of Nitinol Stent Design based on FEA Topology Optimisation, Belgrade Bioinformatics Conference (BELBI 2018), Belgrade, Serbia, June 18-22, 2018		
List of results M52 Work in the journal of national importance	No 5	
1. N. Filipovic, M. Rosic, V. Isailovic, Z. Milosevic, D. Nikolic, D. Milasinovic, M. Radovic, B. Stojanovic, M. Ivanovic, I. Tanaskovic, I. Saveljic, M. Milosevic, D. Petrovic, M. Obradovic, E. Themis, A. Sakellarios, P. Siogkas, P. Marraccini, F. Vozi, N. Meunier, Z. Teng, D. Fotiadis, O. Parodi, M. Kojic: ARTREAT project: computer, experimental and clinical analysis of threedimensional plaque formation and progression in arteries; Journal of the Serbian Society for Computational Mechanics, Vol. 5 No. 2, 129-146, UDC: 616.13-004:004.925.84., ISSN 1820-6530, COBISS.SR-ID 145567756, 2011.		
2. N. Filipovic, M. Radovic, V. Isailovic, Z. Milosevic, D. Nikolic, I. Saveljic, M. Milosevic, D. Petrovic, M. Obradovic, D. Krsmanovic, E. Themis, A. Sakellarios, P. Siogkas, P. Marraccini, F. Vozi, N. Meunier, Z. Teng, D. Fotiadis, O. Parodi, M. Kojic, Plaque formation and stent deployment with heating thermal effects in arteries, Journal of the Serbian Society for Computational Mechanics, Vol. 6, No. 1, pp 11-28, 2012.		
3. M. Nikolic, V. Isailovic, D. Nikolic, I. Saveljic, Z. Milosevic, M. Radovic, S. Semmelbauer, F. Bohnke and N. Filipovic, Mechanical and electro-mechanical cochlea model, Journal of the Serbian Society for Computational Mechanics, Vol. 8 No. 2, UDC: 532.542:519.71, 2014.		
4. Stojić V., Saveljić I., Milošević Ž., Nikolić D., Exarchos T., Filipović N. (2016) Modeling of patient-specific three semicircular canals, Journal of Serbian Society for Computational Mechanics, vol. 10, br. 2, str. 57-65, doi:10.5937/jsscm1602057S		
5. Filipović N., Radović M., Isailović V., Milošević Ž., Nikolić D., Saveljić I., Nikolić M., Đukić T., Ćirković-Andelković B., Exarchos T., Meunier N., Teng Z., Fotiadis D., Böhnke F., Parodi O., (2016) A summary of results in modeling plaque formation and development, cochlea mechanics and vestibular disorders, Journal of Serbian Society for Computational Mechanics, vol. 10, br. 2, str. 20-33, doi:10.5937/jsscm1601020F		

PARTICIPATION IN PROJECTS FINANCED BY GOVERNMENT DEPARTMENTS

1. ON-174028: Multiscale Methods and Their Application in Nanomedicine, financed by Ministry of Science and Technology of Republic of Serbia, 2011-2014. Principal investigator - prof. dr Miloš Kojić.

PARTICIPATION IN INTERNATIONAL PROJECTS

1. FP7- ICT IP-224297-ARTreat (09/01/08-08/31/11), Multi-level patient-specific artery and atherogenesis model for outcome prediction, decision support treatment, and virtual hand-on training.
2. SIFEM, Semantic Infostructure interlinking an open source Finite Element tool and libraries with a model repository for the multi-scale Modeling and 3d visualization of the inner-ear, 01.02.2013 – 31.01.2016. <http://www.sifem-project.eu/7>
3. EMBalance, A Decision Support System incorporating a validated patient-specific, multi scale Balance Hypermodel towards early diagnostic Evaluation and efficient Management plan formulation of Balance Disorders, FP7-ICT-2013-5-2-610454, Bioengineering research and development center BIOIRC, Kragujevac, Serbia 2013 – 2016
4. SMARTool: Simulation Modeling of coronary ARTery disease: a tool for clinical decision support, (01/01/16-30/06/19), H2020-PHC-2015-single-stage. Role: Researcher
5. H2020-EU.3.1.1. SC1-PM- 731944 HarmonicSS: HARMONization and integrative analysis of regional, national and international Cohorts on primary Sjögren's Syndrome (pSS) towards improved stratification, treatment and health policy making, Jan 2017 – Present
6. H2020-EU.3.1.4 SC1-PM- 769574 HOLOBALANCE: HOLOgrams for personalised virtual coaching and motivation in an ageing population with BALANCE disorders, Dec 2017 – Present
7. H2020-EU.3.1.5 SC1-PM- 777119 InSilc: In-silico trials for drugeluting BVS design, development and evaluation, Nov 2017 – Present