

**ФАКУЛТЕТ ИНЖЕЊЕРСКИХ НАУКА
УНИВЕРЗИТЕТ У КРАГУЈЕВЦУ**



**CURRICULUM VITAE
Владимир Симић**

ОСНОВНИ ПОДАЦИ

Име и презиме	Владимир Симић
Година и место рођења	Крагујевац, 1991.
Звање	Истраживач приправник
E-mail	vsimic@kg.ac.rs
Образовно-научно / образовно-уметничко поље	Техничко- технолошке науке
Универзитет, факултет, организациона јединица	Универзитет у Крагујевцу, Факултет инжењерских наука, Катедра за примењену механику и аутоматско управљање
Област и ужа специјалност	Машинско инжењерство, Примењена механика и аутоматско управљање

СТРУЧНА БИОГРАФИЈА - ДИПЛОМЕ

ОСНОВНЕ СТУДИЈЕ

Година	2014
Место	Крагујевац
Институција	Факултет инжењерских наука
Наслов	Нумеричко моделирање дифузије у тумору
Област	Биомедицински инжењеринг

МАГИСТАРСКА ТЕЗА

Година	2016
Место	Крагујевац
Институција	Факултет инжењерских наука

Наслов	Развој методологије и софтвера за конвективно- дифузиони транспорт лекова у тумору и органима
Област	Биомедицински инжењеринг

СТРУЧНА БИОГРАФИЈА - ЗВАЊА

Година избора	Институција	Звање
2017	Факултет инжењерских наука, Универзитет у Крагујев	Истраживач приправник

СТРУЧНА БИОГРАФИЈА - ПРИЗНАЊА И НАГРАДЕ

Година	Назив
2015	BIBE 2015 Награда за најбољи рад на конференцији

НАУЧНО-ИСТРАЖИВАЧКИ РАД

Списак резултата M21 Рад у врхунском међународном часопису	Број 5	Укупан
1. Kojic M, Milosevic M, Simic V, Koay E.J, Fleming J.B, Nizzero S, Kojic N, Ziemys A, Ferrari M, A composite smeared finite element for mass transport in capillary systems and biological tissue, Computer Methods in Applied Mechanics and Engineering, Vol.324, No.-, pp. 413-437, ISSN 0045-7825, Doi doi.org/10.1016/j.cma.2017.06.019, 2017 2. A. Ziemys, K. Yokoi, M. Kai, Y.T. Liu, M. Kojic, V. Simic, M. Milosevic, A. Holder, M. Ferrari., Progression- dependent transport heterogeneity of breast cancer liver metastases as a factor in therapeutic resistance, Journal of Controlled Release, Vol.291, No.-, pp. 99-105, ISSN 0168-3659, Doi https://doi.org/10.1016/j.jconrel.2018.10.014, 2018 3. M. Milosevic, D. Stojanovic, V. Simic, B. Milicevic, A. Radisavljevic, P. Uskokovic, M. Kojic, A Computational Model for Drug Release from PLGA Implant, Materials, Vol.11, No.-, pp. 1-17, ISSN 1996-1944, Doi https://doi.org/10.3390/ma11122416, 2018 4. Milosevic M, Simic V, Milicevic B, Koay E.J, Ferrari M, , Ziemys A, Kojic M, Correction function for accuracy improvement of the Composite Smeared Finite Element for diffusive transport in biological tissue systems, Computer Methods in Applied Mechanics and Engineering, Vol.338, No.-, pp. 97-116, ISSN 0045-7825, Doi doi.org/10.1016/j.cma.2018.04.012, 2018 5. M. Kojic, M. Milosevic, V. Simic, V. Geroski, A. Ziemys, N. Filipovic, M. Ferrari, Smeared multiscale finite element model for electrophysiology and ionic transport in biological tissue, Computers in Biology and Medicine, Vol.108, No.-, pp. 288-304, ISSN 0010-4825, Doi doi.org/10.1016/j.compbiomed.2019.03.023, 2019		
Списак резултата M22 Рад у истакнутом међународном часопису	Број 1	Укупан
1. Kojic M, Milosevic M., Simic V.,Koay E.J., Kojic N., Ziemys A., Ferrari M., Multiscale smeared finite element model for mass transport in biological tissue : From blood vessels to cells and cellular organelles, Computers in Biology and		

Medicine, Vol.99, No.-, pp. 7-23, ISSN 0010-4825, Doi
10.1016/j.compbimed.2018.05.022, 2018

Списак резултата M24

Рад у часопису међународног значаја верификованог посебном одлуком

**Број
1**

Укупан

1. Kojic Milos, Simic Vladimir, Milosevic Miljan, Composite smeared finite element-some aspects of the formulation and accuracy, IPSI BgD Transactions on Advanced Research (TAR), Vol.13, No.2, pp. -, ISSN 1820-4511, 2017

Списак резултата M33

Саопштење са међународног скупа штампано у целини

**Број
11**

Укупан

1. Kojic M, Milosevic M, Simic V, Ziemys A, Ferrari M., Coupling fluid and solid domains in modeling drug transport within tumor, 6th International Conference on Coupled Problems in Science and Engineering, Venice, Italy, 2015, May 20-25, pp. 583-592, ISBN 9788494392832
2. Mauro Ferrari, Milos Kojic, Miljan Milosevic, Vladimir Simic, Arturas Ziemys, Multiscale models for drug transport in tumors and biological tissue, ECCOMAS 2nd International Conference on Multi- scale Computational Methods for Solids and Fluids, Sarajevo, Bosnia and Herzegovina, 2015, 10–12 June
3. Mauro Ferrari, Milos Kojic, Miljan Milosevic, Vladimir Simic, Rita Serda, Ananth Annapragada, Arturas Ziemys, A computational model for drug transport within tumors and large blood vessel networks, 5th Annual International Conference in Computational Surgery, Houston, Texas, USA, 2015, 19–21 January
4. Miljan Milosevic, Vladimir Simic, Ananth Annapragada, Milos Kojic, Modeling of convective-diffusive transport within mouse brain, 5th International Congress of Serbian Society of Mechanics, Serbian Society of Mechanics, Arandjelovac, Serbia, 2015, June 15-17
5. Milos Kojic, Miljan Milosevic, Vladimir Simic, Arturas Ziemys, Mauro Ferrari, A computational model for drug transport in tumor, 5th International Congress of Serbian Society of Mechanics, Serbian Society of Mechanics, Arandjelovac, Serbia, 2015, June 15-17
6. Milos Kojic, Miljan Milosevic, Velibor Isailovic, Vladimir Simic, Mauro Ferrari, Arturas Ziemys, Computational models for convective and diffusive drug transport in capillaries and tissue, 15th IEEE International Conference on BioInformatics and BioEngineering, Belgrade, Serbia, 2015, Nov 02-04, ISBN 978-1-4673-7982-3
7. M. Kojic, M. Milosevic, V. Simic, E.J. Koay, A. Ziemys, M. Ferrari, On transport and computational models for tissue and tumors, 6th Annual International Conference on Computational Surgery, Bordeaux, France, 2016, 25–26 May
8. Miljan Milosevic, Milos Kojic, Vladimir Simic, Dusica Stojanovic, Petar Uskokovic, NUMERICAL MODELING OF DIFFUSION IN POLY(LACTIC-CO-GLYCOLIC ACID) CONSISTED OF DRUG-LOADED EMULSION ELECTROSPUN NANOFIBERS, ECCOMAS Congress 2016, VII European Congress on Computational Methods in Applied Sciences and Engineering, Crete Island, Greece, 2016, 5-10 June
9. Miljan Milosevic, Vladimir Simic, Milos Kojic, Numerical modeling of drug delivery in organs : from CT scans to FE model, 2nd EAI International Conference

on Future Access Enablers of Ubiquitous and Intelligent Infrastructures, Belgrade, Serbia, 2016, October 24-25 10. Milos Kojic, Miljan Milosevic, Vladimir Simic, Mauro Ferrari, Eugene J. Koay, Arturas Ziemys, A model for drug transport in tumor, ECCOMAS Congress 2016, VII European Congress on Computational Methods in Applied Sciences and Engineering, Crete Island, Greece, 2016, 5–10, June 11. Milos Kojic, Miljan Milosevic, Vladimir Simic, Bogdan Milicevic, Vladimir Geroski, Nenad Filipovic, Our smeared FE model for electrophysiology coupled with heart muscle mechanics, IEEE-EMBS International Conference on Biomedical and Health Informatics (BHI), University of Illinois, Chicago IL, Chicago, 2019		
Списак резултата M34	Број	Укупан
Саопштење са међународног скупа штампано у изводу	5	
1. Miljan Milošević, Miloš Kojic, Vladimir Simić, Accuracy of Smeared Finite Element Model Improved by a Field of Correction Factors, 4th South- East European Conference on Computational Mechanics, Kragujevac, Serbia, 2017, 03-04 July, pp. 26-27, ISBN 978-86-921243-0-3 2. Miljan Milošević, Miloš Kojić, Vladimir Simić, Field of Correction Factors for Smeared Finite Element, The 6th International Congress of Serbian Society of Mechanics, Tara, Serbia, 2017, 19-21 June, pp. 163, ISBN 978-86-909973-6-7 3. Miloš Kojić, Miljan Milošević, Vladimir Simić, Convection- diffusion transport model using composite smeared finite element, The 6th International Congress of Serbian Society of Mechanics, Tara, Serbia, 2017, 19-21 June, pp. 162, ISBN 978-86-909973-6-7 4. Miloš Kojic, Miljan Milošević, Vladimir Simić, Nikola Kojic, Arturas Ziemys, Mauro Ferrari, Convection- Diffusion Transport Model Using Composite Smeared Finite Element, 4th South- East European Conference on Computational Mechanics, Kragujevac, Serbia, 2017, 03-04 July, pp. 27, ISBN 978-86-921243-0-3 5. Vladimir Simić, Miljan Milošević, Bogdan Milićević, Miloš Kojić, Application of multi-scale smeared finite element model for modeling of mass transport in capillary systems and biological tissue, Belgrade BioInformatics Conference, Belgrade, Serbia, 2018, 18-22 June, pp. 93, ISBN 2334-6590		
Списак резултата M51	Број	Укупан
Рад у водећем часопису националног значаја	4	
1. M. Kojic, M. Milosevic, V. Simic, M. Ferrari, A 1D PIPE FINITE ELEMENT WITH RIGID AND DEFORMABLE WALLS, Časopis Srpskog društva za računsku mehaniku, Vol.8, No.2, pp. 38-53, ISSN 1820-6530, 2014 2. M. Kojic, M. Milosevic, V. Simic, E. J. Koay, N. Kojic, A. Ziemys, M. Ferrari, Extension of the Composite Smeared Finite Element (CSFE) to Include Lymphatic System in Modeling Mass Transport in Capillary Systems and Biological Tissue, Journal of the Serbian Society for Computational Mechanics, Vol.11, No.2, pp. 108-119, ISSN 1820-6530, Doi 10.24874/jsscm2017.11.02.09, 2017 3. M. Kojic, V. Simic, M. Milosevic, Incremental Finite Element Formulation for Large Strains Based on The Nodal Force Increments, Journal of the Serbian		

Society for Computational Mechanics, Vol.11, No.1, pp. 97-109, ISSN 1820-6530, Doi 10.24874/jsscm2017.11.01.10, 2017

4. M. Kojic, V. Simic, M. Milosevic, A radial 1D Finite Element for Drug Release from Drug Loaded Nanofibers, Journal of the Serbian Society for Computational Mechanics, Vol.11, No.1, pp. 82-93, ISSN 1820-6530, Doi DOI:10.24874/jsscm2017.11.01.08, 2017

Списак резултата М64

Саопштење са скупа националног значаја штампано у изводу

**Број
4**

Укупан

1. Bogdan Milicevic, Raffaella Santagiuliana, Miljan Milosevic, Vladimir Simic, Bernhard Schrefler, Milos Kojic, COMPUTATIONAL PROCEDURE FOR COUPLING OF TUMOR GROWTH AND DRUG DISTRIBUTION MODEL, 7th International Congress of Serbian Society of Mechanics, Sremski Karlovci, Srbija, 2019, June 24-26, pp. 164-166, ISBN 978-86-909973-7-4
2. Miljan Milosevic, Dusica Stojanovic, Vladimir Simic, Bogdan Milicevic, Andjela Radisavljevic, Petar Uskokovic, Milos Kojic, NUMERICAL MODELS FOR DRUG RELEASE FROM DRUG-LOADED NANOFIBERS, 7th International Congress of Serbian Society of Mechanics, Sremski Karlovci, Serbia, 2019, June 24-26, pp. 166-168, ISBN 978-86-909973-7-4
3. Vladimir Geroski, Milos Kojic, Miljan Milosevic, Vladimir Simic, Bogdan Milicevic, Nenad Filipovic, COUPLED ELECTROPHYSIOLOGICAL AND MECHANICAL FINITE ELEMENT MODEL OF THE HEART WALL, 7th International Congress of Serbian Society of Mechanics, Sremski Karlovci, Serbia, 2019, June 24-26, pp. 180-182, ISBN 978-86-909973-7-4
4. Vladimir Simic, Miljan Milosevic, Bogdan Milicevic, Milos Kojic, APPLICATION OF THE CSFE FINITE ELEMENT IN LIVER MODEL WITH TUMORS, 7th International Congress of Serbian Society of Mechanics, Sremski Karlovci, Srbija, 2019, June 24-26, pp. 172-173, ISBN 978-86-909973-7-4

УЧЕШЋЕ НА ПРОЈЕКТИМА РЕСОРНОГ МИНИСТАРСТВА

1. “Примена биомедицинског инжењеринга у претклиничкој и клиничкој пракси”, III41007, финансиран од стране Министарства науке, просвете и технолошког развоја Републике Србије, 2011-. Руководилац пројекта - проф. др Ненад Филиповић. Институција координатор истраживања – Факултет инжењерских наука, Крагујевац.

РЕЗУЛТАТИ ПЕДАГОШКОГ РАДА

1. Механика 2, На матичном факултету, 2015.-
2. Механика 3, На матичном факултету, 2016.-
3. Електротехника са електроником, На матичном факултету, 2017.- 2019.