
Curriculum Vitae

NAME		POSITION TITLE	
Boban Stojanović		Assistant Professor , Department of Mathematics and Informatics, Faculty of Science, University of Kragujevac	
EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
University of Kragujevac, Serbia-Yugoslavia	PhD	2007	Computer modeling and simulations
University of Kragujevac, Serbia-Yugoslavia	B.Sc.	2002	Mechanical Engineering

A. Positions and Honors.

Position and Employment

2008-present	Assistant Professor, Department of Mathematics and Informatics, Faculty of Science, University of Kragujevac
2002-2008	Research Assistant, Center for Scientific Research of Serbian Academy of Sciences and Arts and University of Kragujevac, Serbia and Montenegro
2005-2005	Research Assistant, Department of Industrial and Systems Engineering, The Hong Kong Polytechnic University, Hong Kong
2003-2003	Research Assistant, Department of Industrial and Systems Engineering, The Hong Kong Polytechnic University, Hong Kong
1996-2002	Research Assistant, Faculty of Mechanical Engineering, University of Kragujevac, Yugoslavia

Other Experience and Professional Memberships

2006-present	Serbian Society for Computational Mechanics (SSCM), Founder
2000-present	Yugoslav Society of Biomechanics (YUBIOM), Member

Honors

2000	Norway government honor
1997-2002	Scholarship for Talented Students for graduate studies from Ministry of Science and Technology of Serbia
1997-2002	First place in programming on Federal Competition of Mechanical Engineering Students
1996	Third place on Federal High-school Competition in Programming

1996	First place on Republic High-school Competition in Programming
1995	Third place on Federal High-school Competition in Programming
1995	First place on Republic High-school Competition in Programming
1992	Second place on Republic Elementary-school Competition in Physics

B. Selected peer-reviewed publications (in chronological order).

Books

1. B. Stojanovic, N. Milivojevic, M. Ivanovic, D. Divac, Chapter: *DotNet Platform for Distributed Evolutionary Algorithms with Application in Hydroinformatics*, book *High Performance and Cloud Computing in Scientific Research and Education*, group of authors: M. Despotovic-Zrakic, V. Milutinovic and A. Belic, editors, IGI Global, 2014.
DOI: 10.4018/978-1-4666-5784-7, ISBN13: 9781466657847, ISBN10: 1466657847, EISBN13: 9781466657854
2. M. Kojić, B. Stojanović, V. Ranković, I. Vlastelica, Chapter: Modeling biomaterials and tissues, book *Biomaterials*, group of authors: D. Raković, D. Uskoković, editors., Institute of Technical Sciences of the Serbian Academy of Sciences and Arts, 2010; 371-401.
3. N. Filipović, M. Kojić, V. Ranković, B. Stojanović, Chapter: Modeling blood flow, blood vessels with stent and cartilage, knjiga *Biomaterijali*, group of authors: D. Raković, D. Uskoković, editors, Institute of Technical Sciences of the Serbian Academy of Sciences and Arts, 2010; 403-434.
4. N. Grujović, D. Divac, B. Stojanović. Chapter: Modeling Unsteady Flow in Open Channels, Reservoirs and Hidropower Plants, book *Hydro Information Systems for Management of Hydro-energetic Resources*, group of authors: D. Divac, D. Prodanović, N. Milivojević, editors, Jaroslav Černi Institute for the Development of Water Resources, Belgrade, 2009; 181-205.
5. Stojanović, D. Divac, V. Milivojević. Poglavlje: Updating State Variables of Unsteady Flow Model to Support Operational Management, book *Hydro Information Systems for Management of Hydro-energetic Resources*, group of authors: D. Divac, D. Prodanović, N. Milivojević, editors, Jaroslav Černi Institute for the Development of Water Resources, Belgrade, 2009; 207-223.
6. B. Stojanović. Computer modeling of muscles. Andrejevic Foundation, Belgrade, 2009.
7. M. Kojic, N. Filipovic, B. Stojanovic, N. Kojic. Computer Modeling in Bioengineering. John Wiley and Sons, 2008.

Papers

1. V. Rankovic, M. Drenovak, B. Stojanovic, Z. Kalinic, Z. Arsovski. The mean-Value at Risk static portfolio optimization using genetic algorithm. *Computer Science and Information Systems*, accepted for publication.
ISSN 1820-0214.
2. B. Stojanovic, M. Milivojevic, M. Ivanovic, N. Milivojevic, D. Divac. Adaptive System for Dam Behavior Modeling Based on Linear Regression and Genetic Algorithms. *Advances in Engineering Software* 2013; 65: 182-190.
DOI: 10.1016/j.advengsoft.2013.06.019, ISSN 0965-9978.
3. M. Dimkic, V. Rankovic, N. Filipovic, B. Stojanovic, V. Isailovic, M. Pusic and M. Kojic. Modeling of radial well lateral screens using 1D finite elements.

- Journal of Hydroinformatics 2012; 15(2): 405-415.
DOI:10.2166/hydro.2012.008, ISSN 1464-7141.
4. M. Milivojevic, S. Stopic, B. Friedrich, B. Stojanovic, D. Drndarevic. Computer modeling of high-pressure leaching process of nickel laterite by design of experiments and neural networks. *Interantional Journal of Minerals, Metallurgy, and Materials* 2012; 19(7): 584-594.
DOI: 10.1007/s12613-012-0599-x, ISSN 1674-4799.
 5. M. Kojic, J.P. Butler, I. Vlastelica, B. Stojanovic, V. Rankovic, A. Tsuda. Geometric hysteresis of alveolated ductal architecture. *Journal of biomechanical engineering* 2011; 133(11): 111005.
 6. S. Mijailovich, B. Stojanovic, M. Kojic, A. Liang, V. Wedeen, R. Gilbert. Derivation of a finite element model of lingual deformation during swallowing from the mechanics of mesoscale myofiber tracts obtained by MRI. *Journal of Applied Physiology* 2010; 109(5): 1500-1514.
 7. D. Stamenovic, M. Kojic, B. Stojanovic, D. Hunter. Pneumatic Osteoarthritis Knee Brace. *Journal of Biomechanical Engineering* 2009; 131 (4): (045001-1)-(045001-6).
 8. M. Kojić, N. Filipović, B. Stojanović, V. Ranković, M. Krstić, L. Otašević, M. Ivanović, M. Nedeljković, M. Dimkić, M. Tričković, M. Pušić, Đ. Boreli-Zdravković, D. Đurić. Finite element modeling of underground water flow with Ranney wells. *Water Science & Technology: Water Supply* 2007; 7(3): 41–50.
 9. B. Stojanovic, M. Kojic, M. Rosic, C.P. Tsui, C.Y. Tang. An Extension of Hill's Three-Component Model to Include Different Fiber Types in Finite Element Modeling of Muscle. *Int. J. Numer. Meth. Eng* 2007; 71: 801-817.
 10. C.Y. Tang, C.P. Tsui, B. Stojanovic, M. Kojic. Finite Element Modelling of Skeletal Muscles Coupled with Fatigue. *International Journal of Mechanical Sciences* 2007; 49: 1179-1191.
 11. M. Kojic, I. Vlastelica, B. Stojanovic, V. Rankovic, A. Tsuda. Stress integration procedures for a biaxial isotropic material model of biological membranes and for hysteretic models of muscle fibers and surfactant. *International Journal for Numerical Methods in Engineering* 2006; 68: 893-909.
 12. C.Y. Tang, B. Stojanovic, C.P. Tsui, M. Kojic. Modeling of muscle fatigue using Hill's model. *Bio-medical Materials and Engineering* 2005; 15(5): 341-348.

Conference proceedings and monographs

1. M. Ivanovic, N. Filipovic, B. Stojanovic, M. Kojic. Parallel Algorithms for Smoothed Particle Hydrodynamics and Dissipative Particle Dynamics, *Proceedings of the Third International Conference on Parallel, Distributed, Grid and Cloud Computing for Engineering*, Pécs, Hungary, 25-27 March 2013, Civil-Comp Press, Stirlingshire, UK, Paper 42, ISSN/ISBN: 1759-3433. doi:10.4203/ccp.101.42.
2. Dikovic Lj., Bogovic J., Milivojevic M., Friedrich B., Stopic S., Stojanovic B., Jankovic B., Normal vs. Lognormal Distributions in Aerosol Synthesis, 6th *International Conference Science and Higher Education in Function of Sustainable Development – SED2013*, Proceedings ISBN 978-86-83573-39-4, COBISS.SR-ID 201568780, p.2-28, 2-34, 2013, Uzice, Serbia.
3. B. Stojanovic, M. Ivanovic, Dj. Nedic, M. Svicevic. Thin Filament Regulation in Solution – Parallelization of Stochastic Model. *Proceedings of the 5th International Conference "Science and Higher Education in Function of Sustainable Development" SED 2012*, Uzice, Serbia, 4-5 October 2012, pp. 2:7-12, ISBN 978-86-83573-26-4.

4. S. Stopic, J. Bogovic, A. Schwinger, B. Friedrich, Lj. Dikovic, M. Milivojevic, D. Drndarevic, B. Stojanovic. Computer Modeling of Metallurgical Processes by Design of Experiments and Neural Networks. Proceedings of the 5th International Conference "Science and Higher Education in Function of Sustainable Development" SED 2012, Uzice, Serbia, 4-5 October 2012, pp. 2:1-6, ISBN 978-86-83573-26-4.
5. B. Stojanovic, V. Simic, M. Ivanovic, A. Kaplarevic-Malistic, A. Stanojevic. WCF Platform for Distributed Evaluation in Evolutionary Algorithms. Proceedings of the 4th International Conference "Science and Higher Education in Function of Sustainable Development" SED 2011, Uzice, Serbia, 7-8 October 2011, pp. 2:8-13, ISBN 978-86-83573-22-6.
6. M. Milivojevic, B. Stojanovic, V. Simic. The Simulation of Probability Distribution Function in Queuing Theory. Proceedings of the 4th International Conference "Science and Higher Education in Function of Sustainable Development" SED 2011, Uzice, Serbia, 7-8 October 2011, pp. 2:43-46, ISBN 978-86-83573-22-6.
7. M. Milivojevic, D. Drndarevic, S. Stopic, V. Simic, B. Stojanovic. Modeling Steel Annealing Process Based on BP Neural Network. Proceedings of the 3th International Conference "Science and Higher Education in Function of Sustainable Development" SED 2010, Uzice, Serbia, 7-8 October 2010, pp. 2:22-28, ISBN 978-86-83573-18-9.
8. M. Milivojevic, B. Stojanovic, D. Drndarevic, N. Petrovic, Lj. Dikovic. Computer Modeling of Steel Annealing Based on the Theory of Experiment. Proceedings of the 3th International Conference "Science and Higher Education in Function of Sustainable Development" SED 2010, Uzice, Serbia, 7-8 October 2010, pp. 2:16-21, ISBN 978-86-83573-18-9.
9. M. Kojic, N. Filipovic, V. Isailovic, I. Vlastelica, B. Stojanovic, D. Petrovic, T. Djukic, P. Decuzzi, M. Ferrari. Application of Loose and Strong Coupling for Fluid-Solid Interaction in Creeping Flows. 2nd International Congress of Serbian Society of Mechanics (IConSSM 2009), Palić (Subotica), Serbia, 1-5 June 2009, M3-10:1-19.
10. B. Stojanovic, M. Zivkovic, R. Slavkovic. Numerical Integration for Assumed Strain Finite Elements. 2nd International Congress of Serbian Society of Mechanics (IConSSM 2009), Palić (Subotica), Serbia, 1-5 June 2009, M3-08:1-18.
11. B. M. Ristic, V. Rankovic, B. Stojanovic, M. Kojic. Optimization of the diaphyseal screw shape and number in trochanteric fractures of the hip using finite element analysis. 8th EFORT Congress, Firenze, Italy, 11-15 May 2007.
12. B. Stojanovic, M. Kojic, A. Tsuda. Motion of Aerosol Particle on Alveolar Membrane. First Serbian (26th YU) Congress on Theoretical and Applied Mechanics, Kopaonik, Serbia, April 10-13, 2007.
13. I. Vlastelica, B. Stojanovic, M. Kojic. Modeling of Particle Penetration into Tissue and Determination of Particle Submergence Under Action of Surfactant. First Serbian (26th YU) Congress on Theoretical and Applied Mechanics, Kopaonik, Serbia, April 10-13, 2007.
14. B. Stojanovic, M. Kojic, M. Rosic, C.P. Tsui, C.Y. Tang. Finite Element Modeling of Muscle Using Extended Hill's Model With Different Fiber Types, First South-East European Conference on Computational Mechanics (SEECM06), Kragujevac, Serbia, 2006.
15. I. Vlastelica, M. Kojic, B. Stojanovic, V. Rankovic, A. Tsuda. On the Superposition of Hysteretic Actions of Tissue and Surfactant, First South-East European Conference on Computational Mechanics (SEECM06), Kragujevac, Serbia, 2006.
16. V. Rankovic, N. Jagic, B. Stojanovic, P. Uskokovic, N. Filipovic, M. Kojic. Shape Memory Alloys in Medical Devices. Nitinol Stent Design and Blood

- Vessel Stresses, First South-East European Conference on Computational Mechanics (SEECM06), Kragujevac, Serbia, 2006.
17. O. Miljković, M. Tuba, Stojanović. Determination of Contours for Finite Elements Mesh Generation, First South-East European Conference on Computational Mechanics (SEECM06), Kragujevac, Serbia, 2006.
 18. M. Krstić, M. Kojić, N. Filipović, B. Stojanović, V. Ranković, L. Otašević, M. Ivanović, M. Nedeljković, M. Dimkić, M. Tričković, M. Pušić, Đ. Boreli-Zdravković, D. Đurić. Finite Element Modeling of Underground Water Flow With Ranney Wells, First South-East European Conference on Computational Mechanics (SEECM06), Kragujevac, Serbia, 2006.
 19. M. Kojic, J. Butler, I. Vlastelica, B. Stojanovic, V Rankovic, A Tsuda. Geometric hysteresis of alveolated duct architecture (Abstract). FASEB JOURNAL, 2006; 20 (5): A1258-A1259.
 20. M. Kojić, N. Filipović, J.P. Butler, I. Vlastelica, M. Ivanović, B. Stojanović, V. Ranković and A. Tsuda. Airflow Irreversibility within the Pulmonary Acinus due to Hysteresis of Surfactant and Tissue, Experimental Biology Conference, San Diego. FASEB Journal, 2005; 19 (4): A642-A642.
 21. O. Miljkovic, M. Tuba, B. Stojanovic. Edges and Medial-lines Detection of Medical Image Objects for Finite Element Mesh, Proceedings of III Congress of Mathematicians of Macedonia, pp. 503-512, Macedonia 2005.
 22. O. Miljkovic, M. Tuba, B. Stojanovic, Detection of Medical Image Objects for Finite Element Mesh Generation, Bulletin for Applied Mathematics (BAM), CVIII 2234-2263/2005, pp. 142-149, Budapest 2005.
 23. B. Stojanovic, M. Kojic, C.Y. Tang. A modification of Hill's Model to include muscle fatigue, The First International Conference on Computational Mechanics (CM'04), Belgrade, Serbia and Montenegro, 2004.
 24. M. Kojic, I. Vlastelica, B. Stojanović, A. Tsuda. Modeling Of Tissue Response Subjected To Action Of Surfactant With Hysteretic Characteristic, The First International Conference on Computational Mechanics (CM'04), Belgrade, Serbia and Montenegro, 2004.
 25. M. Kojic, B. Stojanovic, C. Y. Tang. An extension of hill's model to account for muscle fatigue, 14-th European Society of Biomechanics, Hertogenbosch, Netherlands, 2004
 26. N. Filipovic, M. Kojic, M. Ivanovic, V. Rankovic, B. Stojanovic and S. Mijailovich. Fluid-structure interaction in haemodynamics and wall mechanics of coronary arteries with plaques, 14-th European Society of Biomechanics, Hertogenbosch, Netherlands, 2004
 27. N. Filipovic, M. Kojic, B. Stojanovic, M. Ivanovic and V. Rankovic. Three-dimensional computer simulations of blood flow through the abdominal aortic aneurysm, International Congress of Computational Bioengineering, Saragossa, Spain, 2003, 24-26 September, pp. 15-20.
 28. N. Filipovic, M. Kojic, D. Divac, D. Vuckovic, N. Trifunovic, N. Zdravkovic , M. Radosavljevic, N. Grujovic., B. Stojanovic, S. Gojkovic, S. Mitrovic , S. Vulovic and B. Jovanovic. 3-D Modeling of the Dam "Prvonek" in Vranjska Banja, V Yugoslavian CAD forume, Novi Sad, 1999

C. Research Support.

Ongoing Research Support

DAAD 2012-2013 Boban Stojanovic (PI) 1/1/2012- 12/31/2013
Artificial Neural Network Modelling of Silver Nanoparticle formation after Thermal
Decomposition of an Aerosol
Serbian–German programme for years 2012-2013
Role: Prime investigator

OI 174028 Milos Kojic (PI) 1/1/2011- 12/31/2014
Methods for multiscale modeling with application in biomedicine
Republic Ministry of Science, Serbia
Role: Co-Investigator

III 41007 Nenad Filipovic (PI) 1/1/2011- 12/31/2014
Application of biomedical engineering in preclinical and clinical practice
Republic Ministry of Science, Serbia
Role: Co-Investigator

NIH R01 DC 011528 Boban Stojanovic (Subcontract PI) 5/1/2011-2/28/2016
Multiscale mechanisms of lingual mechanical function
Subcontract of BiolRC to Steward/St. Elizabeth Hospital, Boston, US
Role: Subcontract PI

FP7-224297 - Large-scale Integrating Project(IP): ARTreat. Multi-level patient-specific artery and atherogenesis model for outcome prediction, decision support treatment, and virtual hand-on training, 2008-2011.

Completed Research Support

Tempus Joint European Project (JEP) Curriculum development CD-JEP-40104: Engineering Business Management and Service Science Master Module, 2006-2009.

INTERREG IIIB CADSES Programme #5D214, CARDS project FLOODMED Monitoring, forecasting and best practices for flood mitigation and prevention in the CADSES region, 2006-2008.

OI 144028 Milos Kojic (PI) 1/1/2006- 31/12/2010
Methods for modeling biomechanical systems for medical application
Republic Ministry of Science and Environment Protection, Serbia - Serbia and Montenegro
Role: Co-Investigator

TR-6209A Milos Kojic (PI) 1/1/2005- 31/12/2007
Development of computational methods and software for modeling in general and biomedical engineering
Republic Ministry of Science and Environment Protection, Serbia - Serbia and Montenegro
Role: Co-Investigator

Akira Tsuda (PI) 1/9/2004- 31/8/2008
Particles in Developing Lung: Bioengineering Approach. Harvard University and University of Kragujevac. NHLBI Prime Grant 5 R01 HL070542-03.
Role: Co-Investigator

Tempus Joint European Project (JEP) Curriculum development CD-JEP-18114:
Restructuring of Mechanical Engineering Studies, 2004-2007.

PolyU 5271/03E CY Tang (PI) 7/2003 - 12/2006
Mechanistic Damage Modelling of Skeletal Muscles Using Hybrid Segment-
Superelement Technique
Hong Kong Polytechnic University, Hong Kong
Role: Research Assistant

Failure Prediction of Particulate-Reinforced Dental Composites Using a Combined
Damage and Fracture Mechanics Approach
Hong Kong Polytechnic University, Hong Kong
Role: Research Assistant

G-T645 CY Tang (PI) 10/2002 - 9/2004
Mechanistic Damage Modelling of Skeletal Muscles Using Hybrid Segment
Superelement Technique
Hong Kong Polytechnic University, Hong Kong
Role: Research Assistant

TR0233 Milos Kojic (PI) 1/1/2002- 31/12/2004
Development of methods, software and devices for biomechanics and bioengineering
Republic Ministry of Science, Technology and Development, Serbia-Yugoslavia
Role: Co-Investigator

3433 Milos Kojic (PI) 1/1/1997- 31/12/2000
Development of methods and software for numerical and experimental research in
biomedical sciences
Republic Ministry of Science and Technology, Serbia-Yugoslavia
Role: Co-Investigator

2121 Milos Kojic (PI) 1/1/1996- 31/12/2000
Development of methods and software for fluid flow through porous media with free
surface analysis
Institute for Water Resources, "Jaroslav Cerni", Belgrade, Serbia-Yugoslavia
Role: Co-Investigator

11M06 Milos Kojic (PI) 1/1/1996- 31/12/2000
Development of new engineering methods in mechanical engineering and
shipbuilding
Republic Ministry of Science and Technology, Serbia-Yugoslavia
Role: Co-Investigator