

## Научне квалификације наставника на докторским студијама и задужења у настави

<b>Презиме, средње слово, име</b>	Антић С. Драган		
<b>Звање</b>	Редовни професор		
<b>Ужа научна област</b>	Аутоматика		
<b>Академска каријера</b>			
	<b>Датум</b>	<b>Институција</b>	<b>Област</b>
Избор у звање	01.04.2005	Универзитет у Нишу, Електронски факултет	Аутоматика
Докторат	08.11.1994.	Универзитет у Нишу, Електронски факултет	Аутоматика
Диплома	29.05.1987.	Универзитет у Нишу, Електронски факултет	Аутоматика

### Списак предмета које наставник држи на студијским програмима докторских студија

Р.б.	Назив предмета
1	Теорија система
2	Математички модели у индустрији
3	Оптимално управљање
4	Системи променљиве структуре
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### Најзначајнији радови у складу са захтевима допунских стандарда за дато поље (10 до 20)

1	Dragan Antić, Bratislav Danković, Saša Nikolić, Marko Milojković, Zoran Jovanović, "Approximation Based on Orthogonal and Almost Orthogonal Functions", Journal of the Franklin Institute, vol. 349, no. 1, pp. 323-336, 2012.
2	Marko Milojković, Dragan Antić, Saša Nikolić, Zoran Jovanović, Staniša Perić, "On a new class of quasi-orthogonal filters", International Journal of Electronics, vol. 100, no. 10, pp. 1361-1372, 2013.
3	Sreten Stojanović, Dragutin Debeljković, Dragan Antić, "Robust finite-time stability and stabilization of linear uncertain time-delay systems", Asian Journal of Control, vol. 15, no. 5, pp. 1548-1554, 2013.
4	Sreten Stojanović, Dragutin Debeljković, Dragan Antić, "The application of different Lyapunov-like functionals and some aggregate norm approximations of the delayed states for finite-time stability analysis of linear discrete time-delay systems", Journal of the Franklin Institute, vol. 351, no. 7, pp. 3914 - 3931, 2014.
5	Marko Milojković, Dragan Antić, Miroslav Milovanović, Saša S. Nikolić, Staniša Perić, Muhanad Almawlawe, "Modeling of Dynamic Systems Using Orthogonal Endocrine Adaptive Neuro-Fuzzy Inference Systems", Journal of Dynamic Systems, Measurement, and Control, vol. 137, no. 9, pp. DS-15-1098, 2015.
6	Saša Nikolić, Dragan Antić, Marko Milojković, Miroslav Milovanović, Staniša Perić, Darko Mitić, "Application of Neural Networks with Orthogonal Activation Functions in Control of Dynamical Systems", International Journal of Electronics, vol. 103, no. 4, pp. 667-685, 2016.
7	Staniša Perić, Dragan Antić, Miroslav Milovanović, Darko Mitić, Marko Milojković, Saša Nikolić, "Quasi-Sliding Mode Control with Orthogonal Endocrine Neural Network-Based Estimator Applied in Anti-Lock Braking System", IEEE/ASME Transactions on Mechatronics, vol. 21, no. 2, pp. 754-764, 2016.
8	Miodrag Spasić, Morten Hovd, Darko Mitić, Dragan Antić, "Tube Model Predictive Control with an Auxiliary Sliding Mode Controller", Modeling, Identification and Control, vol. 37, no. 3, pp. 181-193, 2016.
9	Miroslav Milovanović, Dragan Antić, Marko Milojković, Saša Nikolić, Staniša Perić, Miodrag Spasić, "Adaptive PID Control Based on Orthogonal Endocrine Neural Networks", Neural Networks, vol. 84, pp. 80-90, 2016.
10	Miroslav Milovanović, Dragan Antić, Marko Milojković, Saša Nikolić, Miodrag Spasić, Staniša Perić, "Time Series Forecasting with Orthogonal Endocrine Neural Network Based on Postsynaptic Potentials", Journal of Dynamic Systems, Measurement, and Control, vol. 139, no. 4, pp. 041006-1÷041006-9, DS-15-1656, 2017.
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### Збирни подаци научне активности наставника

Укупан број цитата	334	Број домаћих пројеката на којима наставник тренутно учествује	2
Укупан број радова са SCI (SSCI) листе	53	Број међународних пројеката на којима наставник тренутно учествује	6
<b>Усавршавања</b>			
<b>Остали подаци који се сматрају релевантним</b>			

## Научне квалификације наставника на докторским студијама и задужења у настави

<b>Презиме, средње слово, име</b>				Јовановић Д. Зоран			
<b>Звање</b>				Редовни професор			
<b>Ужа научна област</b>				Аутоматика			
<b>Академска каријера</b>							
	<b>Датум</b>	<b>Институција</b>		<b>Област</b>			
<b>Избор у звање</b>	11.07.2016	Универзитет у Нишу, Електронски факултет		Аутоматика			
<b>Докторат</b>	03.07.2006.	Универзитет у Нишу, Електронски факултет		Аутоматика			
<b>Диплома</b>	01.06.1984.	Универзитет у Нишу, Електронски факултет		Енергетика			
<b>Списак предмета које наставник држи на студијским програмима докторских студија</b>							
<b>Р.б.</b>	<b>Назив предмета</b>						
1	Рачунарско управљање системима						
2	Дистрибуирано рачунарско управљање						
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<b>Најзначајнији радови у складу са захтевима допунских стандарда за дато поље (10 до 20)</b>							
1	Radmila Gerov, Zoran Jovanović, "Synthesis of PI Controller with a Simple Set-Point Filter for Unstable First-Order Time Delay Processes and Integral plus Time Delay Plant", Elektronika ir Elektrotehnika, 2018, vol. 24, no. 2, pp. 3-11, DOI: 10.5755/j01.eie.24.2.20629.						
2	Dragan Antić, Bratislav Danković, Saša Nikolić, Marko Milojković, Zoran Jovanović, "Approximation Based on Orthogonal and Almost Orthogonal Functions", Journal of the Franklin Institute, 2012, vol. 349, no. 1, pp. 323-336. Print ISSN:0016-0032,(Doi.No: <a href="http://dx.doi.org/10.1016/j.jfranklin.2011.11.006">http://dx.doi.org/10.1016/j.jfranklin.2011.11.006</a> ), Publisher: Elsevier Ltd. February 2012						
3	Bratislav Danković, Saša Nikolić, Marko Milojković, and Zoran Jovanović, "A Class of Almost Orthogonal Filters", Journal of Circuits, Systems, and Computers, 2009, vol. 18, no. 5, pp. 923-931. Print ISSN: 0218-1266, (DOI No: 10.1142/S0218126609005447), World Scientific Publishing Company. avgust 2009						
4	Marko Milojković, Saša Nikolić, Bratislav Danković, Dragan Antić, Zoran Jovanović, "Modelling of Dynamical Systems Based on Almost Orthogonal Polynomials", Mathematical and Computer Modelling of Dynamical System, 2010, vol. 16, no. 2, pp. 133-144. Print ISSN: 1387-3954, DOI No:10.1080/13873951003740082), Taylor & Francis. april 2010						
5	Dragan Antić, Marko Milojković, Zoran Jovanović, Saša Nikolić, "Optimal Design of the Fuzzy Sliding Mode Control for a DC Servo Drive", Strojniški vestnik - Journal of Mechanical Engineerin, 2010, vol. 56, no. 7-8, pp. 455-463. Print ISSN: 0039-2480 Publisher: Association of Mechanical Engineers of Slovenia (AMES).avgust 2010						
6	Saša Nikolić Dragan Antić, Bratislav Danković, Marko Milojković, Zoran Jovanović, Staniša Perić, "Orthogonal Functions Applied in Antenna Positioning", Advances in Electrical and Computer Engineerin, 2010, vol. 10, no. 4, pp. 35-42 Print ISSN: 1582-7445, Doi No <a href="http://dx.doi.org/10.4316/AECE.2010.04006">http://dx.doi.org/10.4316/AECE.2010.04006</a> ), Publisher: Faculty of Electrical Engineering and Computer Science, Stefan cel Mare University of Suceava, Romania, December 2010						
7	Dragan Antić, Saša Nikolić, Marko Milojković, Nikola Danković, Zoran Jovanović, Staniša Perić, "Sensitivity Analysis of Imperfect Systems Using Almost Orthogonal Filters", Acta Polytechnica Hungarica, 2011, vol. 8, no. 6, pp. 79-94. Print ISSN: 1785-8860, Publisher: Óbuda University, Hungary. December 2011						
8	Dragan Antić, Zoran Jovanović, Vlastimir Nikolić, Marko Milojković, Saša Nikolić, Nikola Danković, "Modeling of Cascade-connected Systems Using Quasi-orthogonal Functions", Electronics and Electrical Engineering, 2012, vol. 18, no. 10, pp. 3-8. Print ISSN: 1392-1215, (Doi No: <a href="http://dx.doi.org/10.5755/j01.eee.18.10.3051">http://dx.doi.org/10.5755/j01.eee.18.10.3051</a> ), Publisher: Kaunas University of Technology. December 2012						
9	Darko B. Mitić, Staniša Lj. Perić, Dragan S. Antić, Zoran D. Jovanović, Marko T. Milojković, Saša S. Nikolić, "Digital Sliding Mode Control of Anti-Lock Braking System", Advances in Electrical and Computer Engineering, 2013, vol. 13, no. 1, pp. 33-40. Print ISSN: 1582-7445, (Doi No: <a href="http://dx.doi.org/10.4316/AECE.2013.01006">http://dx.doi.org/10.4316/AECE.2013.01006</a> ), Publisher: Faculty of Electrical Engineering and Computer Science, Stefan cel Mare University of Suceava, Romania. February 2013						
10	Marko T. Milojković, Dragan S. Antić, Saša S. Nikolić, Zoran D. Jovanović, Staniša Lj. Perić, "On a New Class of Quasi-orthogonal Filters", International Journal of Electronics, 2013, vol. 100, no. 10, pp. 1361-1372. Print ISSN: 0020-7217, (Doi No: <a href="http://dx.doi.org/10.1080/00207217.2012.743087">http://dx.doi.org/10.1080/00207217.2012.743087</a> ), Publisher: Taylor & Francis. July 2013						

11	Slobodan Aleksandrov, Zoran Jovanović, Dragan Antić, Saša Nikolić, Staniša Perić, Radica Aleksandrov, "Analysis of the Efficiency of Applied Virtual Simulation Models and Real Learning Systems in the Process of Education in Mechatronics", Acta Polytechnica Hungarica, 2013, vol. 10, no. 6, pp. 59-76. Print ISSN: 1785-8860, (Doi No:), Publisher: Óbuda University, Hungary. August 2013		
12	Radmila Gerov, Zoran Jovanović, "Parameter Estimation Method for the Unstable Time Delay Process", Acta Polytechnica Hungarica, vol. 16, no. 3, (2019), pp. 101-120. Print ISSN: 1785-8860, (DOI: 10.12700/APH.16.3.2019.3.6), Publisher: Óbuda University, Hungary. 2019.		
13	Radmila Gerov, Tatjana Jovanović, Zoran Jovanović, "Parameter Estimation Methods of the FOPDT Model using the Lambert W Function", Acta Polytechnica Hungarica, vol. 18, no.9, (2021), pp. 141-159. Print ISSN: 1785-8860, (DOI: 10.12700/APH.18.9.2021.9.9), Publisher: Óbuda University, Hungary. 2021.		
14	Milan Šešlija, Vule Reljić, Dragan Šešlija, Slobodan Dudić, Nikolina Dakić, Zoran Jovanović, "Reuse of Exhausted Air from Multi-Actuator Pneumatic Control Systems", Actuators, vol. 10, Issue 6, 125. <a href="https://doi.org/10.3390/act10060125">https://doi.org/10.3390/act10060125</a> , Publisher MDPI, ST Alban-Anlage 66, Basel, Switzerland, CH-4052, 2021.		
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<b>Збирни подаци научне активности nastavnika</b>			
Укупан број цитата	340	Број домаћих пројеката на којима наставник тренутно учествује	2
Укупан број радова са SCI (SSCI) листе	11	Број међународних пројеката на којима наставник тренутно учествује	
<b>Усавршавања</b>			
<b>Остали подаци који се сматрају релевантним</b>			

## Научне квалификације наставника на докторским студијама и задужења у настави

<b>Презиме, средње слово, име</b>	Митић Б. Дарко		
<b>Звање</b>	Редовни професор		
<b>Ужа научна област</b>	Аутоматика		
<b>Академска каријера</b>			
	<b>Датум</b>	<b>Институција</b>	<b>Област</b>
Избор у звање	17.05.2021.	Универзитет у Нишу, Електронски факултет	Аутоматика
Докторат	06.11.2006.	Универзитет у Нишу, Електронски факултет	Аутоматика
Диплома	08.10.1992.	Универзитет у Нишу, Електронски факултет	Аутоматика и електроника

### Списак предмета које наставник држи на студијским програмима докторских студија

Р.б.	Назив предмета
1	Теорија система
2	Робустно управљање
3	Системи променљиве структуре
4	Предиктивно управљање
5	

### Најзначајнији радови у складу са захтевима допунских стандарда за дато поље (10 до 20)

1	Darko B. Mitić, Goran S. Jovanović, Mile K. Stojčev, Dragan S. Antić: "Fast Locking Time Biquadratic Band-Pass Filter Utilizing Non-Linear Sliding-Mode Controller", Journal of Circuits, Systems and Computers, Vol. 30, No. 9, pp. 2150154-1 - 2150154-24, (2021), ISSN: 0218-1266 (DOI : <a href="http://dx.doi.org/10.1142/S0218126621501541">http://dx.doi.org/10.1142/S0218126621501541</a> ) Publisher: World Scientific Publishing Co Ptd . (M23)
2	Staniša Perić, Dragan Antić, Darko Mitić, Saša Nikolić, Marko Milojković, "Generalized Quasi-Orthogonal Polynomials Applied in Sliding Mode Based Minimum Variance Control of ABS", Acta Polytechnica Hungarica, Vol. 17, No. 4, (2020), pp. 165–182. ( <a href="http://acta.uni-obuda.hu/Peric_Antic_Mitic_Nikolic_Milojkovic_101.pdf">http://acta.uni-obuda.hu/Peric_Antic_Mitic_Nikolic_Milojkovic_101.pdf</a> ) Print ISSN: 1785-8860, Publisher: Óbuda University, Hungary. (M22)
3	Miodrag D. Spasić, Darko B. Mitić, Morten Hovd, Dragan S. Antić, "Predictive Sliding Mode Control Based on Laguerre Functions", Journal of Control Engineering and Applied Informatics, Vol. 21, No. 1, (2019), pp. 12-20, ( <a href="http://ceai.srait.ro/">http://ceai.srait.ro/</a> ) ISSN: 1454-8658. Publisher: SRAIT - Romanian Society of Control Engineering and Technical Informatics.(M23)
4	M. Almawlawe, D. Mitić, D. Antić, Z. Ičić: "An approach to microcontroller-based realization of boost converter with quasi-sliding mode control", Journal of Circuits, Systems and Computers, Online Ready, (2017), ISSN: 0218-1266 (DOI : <a href="http://dx.doi.org/10.1142/S0218126617501067">http://dx.doi.org/10.1142/S0218126617501067</a> ), Publisher: World Scientific Publishing Co Ptd . (M23)
5	M. Almawlawe, D. Mitić: "An approach to design of dc-dc boost converter with digital control", Facta Universitatis, Series: Automatic Control and Robotics, Vol. 16, No. 3, (2017), pp. 197-204. Print ISSN: 1820-6417, <a href="http://facta.junis.ni.ac.rs">http://facta.junis.ni.ac.rs</a> , Publisher: University of Niš. (M51)
6	D. S. Antić, D. B. Mitić, Z. D. Jovanović, S. Lj. Perić, M. T. Milojković, S. S. Nikolić, "Sliding Mode Based Anti-Lock Braking System Control", Chapter 27 in Complex Systems Relationships between Control, Communications and Computing, Series: Studies in Systems, Decision and Control, Ed. Georgi M. Dimirovski, Vol. 55, (2016), pp. 557-580, ISBN: 978-3-319-28858-1, Publisher: Springer International Publishing. (M13)
7	M. D. Spasić, M. Hovd, D. B. Mitić, D. S. Antić: "Tube model predictive control with an auxiliary sliding mode controller", Modeling, Identification and Control, Vol. 37, No. 3, (2016), pp. 181-193. ( <a href="http://dx.doi.org/10.4173/mic.2016.3.4">http://dx.doi.org/10.4173/mic.2016.3.4</a> ) ISSN: 1890-1328. Publisher: Norwegian Society of Automatic Control. (M23)
8	G. Jovanović, D. Mitić, M. Stojčev, D. Antić: "Self-tuning OTA-C notch filter with constant Q-factor", Journal of Circuits, Systems and Computers, Vol. 25, No. 5, (2016), ISSN: 0218-1266, (DOI: <a href="http://dx.doi.org/10.1142/S0218126616500456">http://dx.doi.org/10.1142/S0218126616500456</a> ). Publisher: World Scientific Publishing Co Pte Ltd. (M23)
9	S. Lj. Perić, D. S. Antić, M. B. Milovanović, D. B. Mitić, M. T. Milojković, S. S. Nikolić: "Quasi-sliding mode control with orthogonal endocrine neural network-based estimator applied in anti-lock braking system", IEEE/ASME Transactions on Mechatronics, vol. 21, no. 2, (2016), pp. 754-764. Print ISSN: 1083-4435, (DOI: <a href="http://dx.doi.org/10.1109/TMECH.2015.2492682">http://dx.doi.org/10.1109/TMECH.2015.2492682</a> ), Publisher: IEEE. (M21a)

10	S. S. Nikolić, D. S. Antić, M. T. Milojković, M. B. Milovanović, S. Lj. Perić, D. B. Mitić: "Application of neural networks with orthogonal activation functions in control of dynamical systems", International Journal of Electronics, Vol. 103, No. 4, (2016), pp. 667-685. ISSN: 0020-7217, (DOI: <a href="http://dx.doi.org/10.1080/00207217.2015.1036811">http://dx.doi.org/10.1080/00207217.2015.1036811</a> ), Publisher: Taylor & Francis. (M23)
11	M. D. Almawlawe, D. Mitić, M. Milojković: "The advantage of using digital quasi-sliding mode in comparison with analogue PID sliding mode controller", ANNALS of Faculty Engineering Hunedoara – International Journal of Engineering, Vol. 14, No.2, (2016), pp 39-42, Print ISSN: 1584-2665, ( <a href="http://annals.fih.upt.ro/ANNALS-2016-2.html">http://annals.fih.upt.ro/ANNALS-2016-2.html</a> ), Publisher: Faculty of Engineering Hunedoara, University "POLITEHNICA", Timișoara, Romania. (M52)
12	D. B. Mitić, G. S. Jovanović, M. K. Stojčev, D. S. Antić: "Phase-synchroniser based on gm-C all-pass filter chain with sliding mode control", International Journal of Electronics, Vol. 102, No. 3, (2015), pp. 362-375, ISSN: 0020-7217, (DOI: <a href="http://dx.doi.org/10.1080/00207217.2014.896421">http://dx.doi.org/10.1080/00207217.2014.896421</a> ), Publisher: Taylor & Francis. (M23)
13	M. B. Milovanović, D. S. Antić, S. S. Nikolić, S. Lj. Perić, M. T. Milojković, Darko B. Mitić: "Empirical training process selection for three layer feedforward neural network learning procedure", International Journal of Artificial Intelligence and Knowledge Discovery, Vol. 5, No. 1, (2015), pp. 9-13, Print ISSN: 2231-2021, ( <a href="http://www.rgjournals.com/index.php/ijai/article/view/645">http://www.rgjournals.com/index.php/ijai/article/view/645</a> ), Publisher: RG Education Society, India. (M52)
14	S. Perić, D. Antić, V. Nikolić, D. Mitić, M. Milojković, S. Nikolić: "A new approach to the sliding mode control design: Anti-lock braking system as a case study", Journal of Electrical Engineering, Vol. 65, No. 1, (2014), pp. 37-43, ISSN: 1335-3632, Publisher: Faculty of Electrical Engineering and Information Technology of the Slovak Technical University, and the Institute of Electrical Engineering of the Slovak Academy of Sciences. (M23)
15	N. Danković, Z. Perić, D. Antić, D. Mitić, M. Spasić: "On the sensitivity of the recursive filter with arbitrary order predictor in DPCM system", Serbian Journal of Electrical Engineering, Vol. 11, No. 4, (2014), pp. 609-616, ISSN: 1451-4869, (DOI: <a href="http://dx.doi.org/10.2298/SJEE1404609D">http://dx.doi.org/10.2298/SJEE1404609D</a> ), Publisher: Faculty of Technical sciences, Čačak, Serbia. (M52)
16	M. T. Milojković, M. B. Milovanović, D. B. Mitić, S. Lj. Perić, M. D. Spasić, S. S. Nikolić: "Laboratory CNC machine for education of students in control systems engineering", Facta Universitatis, Series: Automatic Control and Robotics, Vol. 13, No. 2, (2014), pp. 117-125. Print ISSN: 1820-6417, <a href="http://facta.junis.ni.ac.rs">http://facta.junis.ni.ac.rs</a> , Publisher: University of Niš. (M24)
17	G. Jovanović, D. Mitić, M. Stojčev, D. Antić: "Self-tuning biquad band-pass filter", Journal of Circuits, Systems and Computers, Vol. 22, No. 3, (2013), ISSN: 0218-1266, (DOI: <a href="http://dx.doi.org/10.1142/S0218126613500084">http://dx.doi.org/10.1142/S0218126613500084</a> ). Publisher: World Scientific Publishing Co Pte Ltd. (M23)
18	D. Mitić, S. Perić, D. Antić, Z. Jovanović, M. Milojković, S. Nikolić: "Digital sliding mode control of anti-lock braking system," Advances in Electrical and Computer Engineering, Vol. 13, No. 1, (2013), pp. 33-40, ISSN: 1582-7445, e-ISSN: 1844-7600, (DOI: <a href="http://dx.doi.org/10.4316/AECE.2013.01006">http://dx.doi.org/10.4316/AECE.2013.01006</a> ), Publisher: Stefan cel Mare University of Suceava, Faculty of Electrical Engineering and Computer Science. (M23)
19	N. Danković, D. Mitić, M. Milojković, S. Stankov, M. Milovanović: "Thermodynamic model of the protector cooling system with applications", Facta Universitatis, Series: Electronics and Energetics, Vol. 26, No. 1, (2013), pp. 53-60., Print ISSN: 0353-3670, <a href="http://facta.junis.ni.ac.rs">http://facta.junis.ni.ac.rs</a> , Publisher: University of Niš. (M24)
20	G. Jovanović, D. Mitić, M. Stojčev, D. Antić: "Self-tuning low-noise amplifier", Facta Universitatis, Series: Automatic Control and Robotics, Vol. 12, No. 2, (2013), pp. 139-145, ISSN: 1820-6417, Publisher: University of Niš. (M52)

#### Збирни подаци научне активности nastavnika

Укупан број цитата	389	Број домаћих пројеката на којима наставник тренутно учествује	1
Укупан број радова са SCI (SSCI) листе	16	Број међународних пројеката на којима наставник тренутно учествује	0

#### Усавршавања

European Embedded Institute (EECI), Gif sur Yvette (Pariz, Francuska), EECI International Graduate School on Control, Model Predictive Control, 2014.

#### Остали подаци који се сматрају релевантним


## Научне квалификације наставника на докторским студијама и задужења у настави

<b>Презиме, средње слово, име</b>	Веселић Р. Бобан		
<b>Звање</b>	Ванредни професор		
<b>Ужа научна област</b>	Аутоматика		
<b>Академска каријера</b>			
	<b>Датум</b>	<b>Институција</b>	<b>Област</b>
Избор у звање	30.11.2017	Универзитет у Нишу, Електронски факултет	Аутоматика
Докторат	24.08.2006.	Универзитет у Нишу, Електронски факултет	Аутоматика
Диплома	01.12.1994	Универзитет у Нишу, Електронски факултет	Аутоматика

### Списак предмета које наставник држи на студијским програмима докторских студија

Р.б.	Назив предмета
1	Робустно управљање
2	Технике дигиталног управљања
3	Оптимално управљање
4	
5	

### Најзначајнији радови у складу са захтевима допунских стандарда за дато поље (10 до 20)

1	Boban Veselić, Čedomir Milosavljević, Branislava Draženović, Senad Huseinbegović, "Sliding manifold design for higher-order sliding mode control of linear systems", International Journal of Control, Automation and Systems, Springer, Vol. 19, No. 8, pp. 2652-2663, August 2021, ISSN 1598-6446, (DOI: 10.1007/s12555-020-0493-7) (Online <a href="https://doi.org/10.1007/s12555-020-0493-7">https://doi.org/10.1007/s12555-020-0493-7</a> )
2	Milutin Petronijević, Čedomir Milosavljević, Boban Veselić, Branislava Peruničić-Draženović, Senad Huseinbegović, "Robust cascade control of electrical drives using discrete-time chattering-free sliding mode controllers with output saturation", Electrical Engineering (Archiv fur Elektrotechnik), Springer, Vol. 103, No. 4, pp. 2181-2195, August 2021, ISSN 0948-7921, (DOI: 10.1007/s00202-020-01198-x) (Online <a href="https://doi.org/10.1007/s00202-020-01198-x">https://doi.org/10.1007/s00202-020-01198-x</a> )
3	Senad Huseinbegović, Branislava Peruničić-Draženović, Boban Veselić, Čedomir Milosavljević, "Disturbance observer based dead-beat control of multi-input systems with unknown disturbances and bounded inputs using discrete-time higher order sliding mode", International Journal of Robust and Nonlinear Control, John Wiley & Sons, Vol. 31, No. 8, pp. 3310-3329, May 2021, ISSN 1049-8923, (DOI: 10.1002/rnc.5460) (Online <a href="https://doi.org/10.1002/rnc.5460">https://doi.org/10.1002/rnc.5460</a> )
4	Boban Veselić, Čedomir Milosavljević, Branislava Peruničić-Draženović, Senad Huseinbegović, Milutin Petronijević, "Discrete-time sliding mode control of linear systems with input saturation", International Journal of Applied Mathematics and Computer Science, University of Zielona Góra, Vol. 30, No. 3, pp. 517-528, 2020, ISSN 1641-876X (print), 2083-8492 (online), (DOI: 10.34768/amcs-2020-0038) (Online <a href="http://dx.doi.org/10.34768/amcs-2020-0038">http://dx.doi.org/10.34768/amcs-2020-0038</a> )
5	Čedomir Milosavljević, Milutin Petronijević, Boban Veselić, Branislava Peruničić-Draženović, Senad Huseinbegović, "Robust discrete-time quasi-sliding mode based nonlinear PI controller design for control of plants with input saturation", Journal of Control Engineering and Applied Informatics, Romanian Society of Control Engineering and Technical Informatics, Vol. 21, No. 3, pp. 31-41, 2019, ISSN 1454-8658, (Online <a href="http://ceai.srait.ro/index.php?journal=ceai&amp;page=article&amp;op=view&amp;path%5B%5D=6310">http://ceai.srait.ro/index.php?journal=ceai&amp;page=article&amp;op=view&amp;path%5B%5D=6310</a> )
6	Čedomir Milosavljević, Branislava Peruničić-Draženović, Boban Veselić, Milutin Petronijević, "High-performance discrete-time chattering-free sliding mode-based speed control of induction motor", Electrical Engineering (Archiv fur Elektrotechnik), Springer, Vol. 99, No. 2, pp. 583-593, June 2017, ISSN 0948-7921, (DOI: 10.1007/s00202-016-0386-1) (Online <a href="http://dx.doi.org/10.1007/s00202-016-0386-1">http://dx.doi.org/10.1007/s00202-016-0386-1</a> )
7	Milutin Petronijević, Branislava Peruničić-Draženović, Čedomir Milosavljević, Boban Veselić, "Discrete-time speed servo system design - a comparative study: PI versus ISM control", IET Control Theory & Applications, The Institution of Engineering and Technology, Vol. 11, No. 16, pp. 2671-2679, October 2017, ISSN 1751-8644, (DOI: 10.1049/iet-cta.2016.1480) (Online <a href="http://dx.doi.org/10.1049/iet-cta.2016.1480">http://dx.doi.org/10.1049/iet-cta.2016.1480</a> )
8	Boban Veselić, Branislava Draženović, Čedomir Milosavljević, "Integral sliding manifold design for linear systems with additive unmatched disturbances", IEEE Transactions on Automatic Control, IEEE Control Systems Society, Vol. 61, No. 9, pp. 2544-2549, September 2016, ISSN 0018-9286, (DOI: 10.1109/TAC.2015.2495333) (Online <a href="http://dx.doi.org/10.1109/TAC.2015.2495333">http://dx.doi.org/10.1109/TAC.2015.2495333</a> )
9	Boban Veselić, Branislava Draženović, Čedomir Milosavljević, "Sliding manifold design for linear systems with unmatched disturbances", Journal of the Franklin Institute, Elsevier, Vol. 351, No. 4, pp. 1920-1938, April 2014, ISSN 0016-0032, (DOI: 10.1016/j.jfranklin.2014.01.011) (Online <a href="http://dx.doi.org/10.1016/j.jfranklin.2014.01.011">http://dx.doi.org/10.1016/j.jfranklin.2014.01.011</a> )
10	Čedomir Milosavljević, Branislava Peruničić-Draženović, Boban Veselić, "Discrete-time velocity servo-system design using sliding mode control approach with disturbance compensation", IEEE Transactions on Industrial Informatics, IEEE Industrial Electronics Society, Vol. 9, No. 2, pp. 920-927, May 2013, ISSN 1551-3203, (DOI: 10.1109/TII.2012.2226431) (Online <a href="http://dx.doi.org/10.1109/TII.2012.2226431">http://dx.doi.org/10.1109/TII.2012.2226431</a> )

11	M. Petronijević, B. Veselić, N. Mitrović, V. Kostić, B. Jeftenić, "Comparative study of unsymmetrical voltage sag effects on adjustable speed induction motor drives", IET Electric Power Applications, Vol. 5, No. 5, pp. 432-442, 2011, (Online <a href="http://dx.doi.org/10.1049/iet-epa.2010.0144">http://dx.doi.org/10.1049/iet-epa.2010.0144</a> )
12	B. Veselić, B. Peruničić-Draženočić, Č. Milosavljević, "Improved discrete-time sliding mode position control using Euler velocity estimation", IEEE Transactions on Industrial Electronics, Vol. 57, No. 11, pp. 3840-3847, 2010, (Online <a href="http://dx.doi.org/10.1109/TIE.2010.2042416">http://dx.doi.org/10.1109/TIE.2010.2042416</a> )
13	B. Veselić, B. Peruničić-Draženočić, Č. Milosavljević, "High-performance position control of induction motor using discrete-time sliding-mode control", IEEE Transactions on Industrial Electronics, Vol. 55, No. 11, pp. 3809-3817, 2008, (Online <a href="http://dx.doi.org/10.1109/TIE.2008.2006014">http://dx.doi.org/10.1109/TIE.2008.2006014</a> )
14	Č. Milosavljević, B. Peruničić-Draženočić, B. Veselić, Darko Mitić, "A new design of servomechanisms with digital sliding mode", Electrical Engineering, Vol. 89, No. 3, pp. 233-244, 2007, (Online <a href="http://dx.doi.org/10.1007/s00202-005-0334-y">http://dx.doi.org/10.1007/s00202-005-0334-y</a> )
15	B. Veselić, G. Golo, Č. Milosavljević, "Discrete time sliding mode approach to synchronization of modulated two-phase harmonic oscillator", Electrical Engineering, Vol. 86, No. 5, pp. 293-298, 2004, (Online <a href="http://dx.doi.org/10.1007/s00202-003-0209-z">http://dx.doi.org/10.1007/s00202-003-0209-z</a> )
16	B. Veselić, Č. Milosavljević, "Sliding mode based harmonic oscillator synchronization", International Journal of Electronics, Vol. 90, No. 9, pp. 553-570, 2003, (Online <a href="http://dx.doi.org/10.1080/00207210310001638574">http://dx.doi.org/10.1080/00207210310001638574</a> )
17	B. Veselić, B. Draženović, Č. Milosavljević, "Sliding manifold design for linear systems with scalar unmatched disturbances", in Complex Systems: Relationships between Control, Communications and Computing, G. Dimirovski (Ed.), Studies in Systems, Decision and Control, Vol. 55, Ch. 26, pp 539-556, Springer International Publishing, 2016, ISBN 978-3-319-28858-1, (Online <a href="http://dx.doi.org/10.1007/978-3-319-28860-4_26">http://dx.doi.org/10.1007/978-3-319-28860-4_26</a> )
18	Č. Milosavljević, B. Draženović, B. Veselić, "Discrete-time sliding-mode servo systems design with disturbance compensation approach", in Complex Systems: Relationships between Control, Communications and Computing, G. Dimirovski (Ed.), Studies in Systems, Decision and Control, Vol. 55, Ch. 29, pp 597-618, Springer International Publishing, 2016, ISBN 978-3-319-28858-1, (Online <a href="http://dx.doi.org/10.1007/978-3-319-28860-4_29">http://dx.doi.org/10.1007/978-3-319-28860-4_29</a> )
19	B. Draženović, Č. Milosavljević, B. Veselić, "Comprehensive Approach to Sliding Mode Design and Analysis in Linear Systems", in Advances in Sliding Mode Control: Concept, Theory and Implementation, B. Bandyopadhyay, S. Janardhanan and S.K. Spurgeon (Eds.), Lecture Notes in Control and Information Sciences, Vol. 440, Ch. 1, pp 1-19, Springer Berlin Heidelberg, 2013, ISBN 978-3-642-36985-8, (Online <a href="http://dx.doi.org/10.1007/978-3-642-36986-5_1">http://dx.doi.org/10.1007/978-3-642-36986-5_1</a> )
20	B. Veselić, "Optimal sliding manifold design for linear systems subjected to a class of unmatched disturbances", Facta Universitatis – Series Automatic Control and Robotics, Vol 13, No. 3, pp. 169-181, 2014, (Online <a href="http://casopisi.junis.ni.ac.rs/index.php/FUAutContRob/article/view/692">http://casopisi.junis.ni.ac.rs/index.php/FUAutContRob/article/view/692</a> )

#### Збирни подаци научне активности наставника

Укупан број цитата	489	Број домаћих пројеката на којима наставник тренутно учествује	1
Укупан број радова са SCI (SSCI) листе	17	Број међународних пројеката на којима наставник тренутно учествује	0

#### Усавршавања

<b>Остали подаци који се сматрају релевантним</b>			



## Научне квалификације наставника на докторским студијама и задужења у настави

Презиме, средње слово, име	Милојковић Т. Марко		
Звање	Ванредни професор		
Ужа научна област	Аутоматика		
Академска каријера			
	Датум	Институција	Област
Избор у звање	30.11.2017	Универзитет у Нишу, Електронски факултет	Аутоматика
Докторат	27.01.2012.	Универзитет у Нишу, Електронски факултет	Аутоматика
Диплома	08.12.2003.	Универзитет у Нишу, Електронски факултет	Рачунарска техника и информатика

### Списак предмета које наставник држи на студијским програмима докторских студија

Р.б.	Назив предмета
1	Интелигентно управљање
2	Симулација индустријских система
3	Математички модели у индустрији
4	Адаптивни системи аутоматског управљања
5	

### Најзначајнији радови у складу са захтевима допунских стандарда за дато поље (10 до 20)

1	Bratislav Danković, Saša Nikolić, Marko Milojković, Zoran Jovanović, "A Class of Almost Orthogonal Filters", Journal of Circuits, Systems, and Computers, vol. 18, no. 5, pp. 923-931. ISSN: 0218-1266, DOI: 10.1142/S0218126609005447, World Scientific Publishing Company, August 2009.
2	Marko Milojković, Saša Nikolić, Bratislav Danković, Dragan Antić, Zoran Jovanović, "Modelling of Dynamical Systems Based on Almost Orthogonal Polynomials", Mathematical and Computer Modelling of Dynamical Systems, vol. 16, no. 2, pp. 133-144. ISSN: 1387-3954, DOI: 10.1080/13873951003740082, Taylor & Francis, April 2010.
3	Dragan Antić, Marko Milojković, Zoran Jovanović, Saša Nikolić, "Optimal Design of the Fuzzy Sliding Mode Control for a DC Servo Drive", Strojniški vestnik - Journal of Mechanical Engineering, vol. 56, no. 7-8, pp. 455-463. ISSN: 0039-2480, <a href="http://www.sv-jme.eu/current-volume/sv-jme-56-7-8-2010/">http://www.sv-jme.eu/current-volume/sv-jme-56-7-8-2010/</a> , Association of Mechanical Engineers of Slovenia (AMES), August 2010.
4	Saša Nikolić, Dragan Antić, Bratislav Danković, Marko Milojković, Zoran Jovanović, Staniša Perić, "Orthogonal Functions Applied in Antenna Positioning", Advances in Electrical and Computer Engineering, vol. 10, no. 4, pp. 35-42. ISSN: 1582-7445, DOI: <a href="http://dx.doi.org/10.4316/AECE.2010.04006">http://dx.doi.org/10.4316/AECE.2010.04006</a> , Faculty of Electrical Engineering and Computer Science, Stefan cel Mare University of Suceava, Romania. December 2010.
5	Dragan Antić, Saša Nikolić, Marko Milojković, Nikola Danković, Zoran Jovanović, Staniša Perić, "Sensitivity Analysis of Imperfect Systems Using Almost Orthogonal Filters", Acta Polytechnica Hungarica, vol. 8, no. 6, pp. 79-94. ISSN: 1785-8860, Óbuda University, Hungary. December 2011.
6	Dragan Antić, Bratislav Danković, Saša Nikolić, Marko Milojković, Zoran Jovanović, "Approximation Based on Orthogonal and Almost Orthogonal Functions", Journal of the Franklin Institute, vol. 349, no. 1, pp. 323-336. ISSN: 0016-0032, DOI: <a href="http://dx.doi.org/10.1016/j.jfranklin.2011.11.006">http://dx.doi.org/10.1016/j.jfranklin.2011.11.006</a> , Elsevier Ltd., February 2012.
7	Dragan Antić, Zoran Jovanović, Vlastimir Nikolić, Marko Milojković, Saša Nikolić, Nikola Danković, "Modeling of Cascade-connected Systems Using Quasi-orthogonal Functions", Electronics and Electrical Engineering, vol. 18, no. 10, pp. 3-8. ISSN: 1392-1215, DOI: <a href="http://dx.doi.org/10.5755/j01.eee.18.10.3051">http://dx.doi.org/10.5755/j01.eee.18.10.3051</a> , Kaunas University of Technology. December 2012.
8	Darko Mitić, Staniša Perić, Dragan Antić, Zoran Jovanović, Marko Milojković, Saša Nikolić, "Digital Sliding Mode Control of Anti-Lock Braking System", Advances in Electrical and Computer Engineering, vol. 13, no. 1, pp. 33-40. ISSN: 1582-7445, DOI: <a href="http://dx.doi.org/10.4316/AECE.2013.01006">http://dx.doi.org/10.4316/AECE.2013.01006</a> , Faculty of Electrical Engineering and Computer Science, Stefan cel Mare University of Suceava, Romania. February 2013.
9	Staniša Perić, Dragan Antić, Vlastimir Pavlović, Saša Nikolić, Marko Milojković, "Ultra Selective Low-pass Linear-phase FIR Filter Function", Electronics Letters, vol. 49, no. 9, pp. 595-597. ISSN: 0013-5194, DOI: 10.1049/el.2012.4475, Institution of Engineering and Technology - IET. April 2013.
10	Marko Milojković, Dragan Antić, Saša Nikolić, Zoran Jovanović, Staniša Perić, "On a New Class of Quasi-orthogonal Filters", International Journal of Electronics, vol. 100, no. 10, pp. 1361-1372. ISSN: 0020-7217, DOI: <a href="http://dx.doi.org/10.1080/00207217.2012.743087">http://dx.doi.org/10.1080/00207217.2012.743087</a> , Taylor & Francis. July 2013.

11	Staniša Perić, Dragan Antić, Vlastimir Nikolić, Darko Mitić, Marko Milojković, Saša Nikolić, "A New Approach to the Sliding Mode Control Design: Anti-lock Braking System as a Case Study", Journal of Electrical Engineering, vol. 65, no. 1, pp. 37-43. ISSN: 1335-3632, DOI: <a href="http://dx.doi.org/10.2478/jee-2014-0005">http://dx.doi.org/10.2478/jee-2014-0005</a> , Faculty of Electrical Engineering and Information Technology of the Slovak Technical University, and the Institute of Electrical Engineering of the Slovak Academy of Sciences. January 2014.
12	Marko Milojković, Dragan Antić, Miroslav Milovanović, Saša Nikolić, Staniša Perić, Muhanad Almawlawe, "Modeling of Dynamic Systems Using Orthogonal Endocrine Adaptive Neuro-Fuzzy Inference Systems", Journal of Dynamic Systems, Measurement, and Control, vol. 137, no. 9, pp. DS-15-1098. ISSN: 0022-0434, DOI: <a href="http://dx.doi.org/10.1115/1.4030758">http://dx.doi.org/10.1115/1.4030758</a> , The American Society of Mechanical Engineers. September 2015.
13	Miroslav Milovanović, Dragan Antić, Miodrag Spasić, Saša S. Nikolić, Staniša Perić, Marko Milojković, "Improvement of DC Motor Velocity Estimation Using a Feedforward Neural Network", Acta Polytechnica Hungarica, vol. 12, no. 6, pp. 107-126. ISSN: 1785-8860, Óbuda University, Hungary. November 2015.
14	Saša Nikolić, Dragan Antić, Staniša Perić, Nikola Danković, Marko Milojković, "Design of Generalised Orthogonal Filters: Application to the Modelling of Dynamical Systems", International Journal of Electronics, vol. 103, no. 2, pp. 269-280. ISSN: 0020-7217, DOI: <a href="http://dx.doi.org/10.1080/00207217.2015.1036367">http://dx.doi.org/10.1080/00207217.2015.1036367</a> , Taylor & Francis. February 2016.
15	Saša Nikolić, Dragan Antić, Marko Milojković, Miroslav Milovanović, Staniša Perić, Darko Mitić, "Application of Neural Networks with Orthogonal Activation Functions in Control of Dynamical Systems", International Journal of Electronics, vol. 103, no. 4, pp. 667-685. ISSN: 0020-7217, DOI: <a href="http://dx.doi.org/10.1080/00207217.2015.1036811">http://dx.doi.org/10.1080/00207217.2015.1036811</a> , Taylor & Francis. April 2016.
16	Staniša Perić, Dragan Antić, Miroslav Milovanović, Darko Mitić, Marko Milojković, Saša Nikolić, "Quasi-Sliding Mode Control with Orthogonal Endocrine Neural Network-Based Estimator Applied in Anti-lock Braking System", IEEE/ASME Transactions on Mechatronics, vol. 21, no. 2, (2016), pp. 754-764. ISSN: 1083-4435, DOI: <a href="http://dx.doi.org/10.1109/TMECH.2015.2492682">http://dx.doi.org/10.1109/TMECH.2015.2492682</a> , IEEE. April 2016.
17	Miroslav Milovanović, Dragan Antić, Marko Milojković, Saša Nikolić, Staniša Perić, Miodrag Spasić, "Adaptive PID Control Based on Orthogonal Endocrine Neural Networks", Neural Networks, vol. 84, pp. 80-90, ISSN: 0893-6080, DOI: <a href="http://dx.doi.org/10.1016/j.neunet.2016.08.012">http://dx.doi.org/10.1016/j.neunet.2016.08.012</a> , Elsevier Ltd. December 2016.
18	Nikola Danković, Dragan Antić, Saša Nikolić, Staniša Perić, Marko Milojković, "A New Class of Cascade Orthogonal Filters based on a Special Inner Product with Application in Modeling of Dynamical Systems", Acta Polytechnica Hungarica, vol. 13, no. 7, pp. 63-82. ISSN: 1785-8860, DOI: <a href="http://dx.doi.org/10.12700/APH.13.7.2016.7.4">http://dx.doi.org/10.12700/APH.13.7.2016.7.4</a> , Óbuda University, Hungary. December 2016.
19	Miroslav Milovanović, Dragan Antić, Marko Milojković, Saša S. Nikolić, Miodrag Spasić, Staniša Perić, "Time Series Forecasting with Orthogonal Endocrine Neural Network Based on Postsynaptic Potentials", Journal of Dynamic Systems, Measurement, and Control, vol. 139, no. 4, pp. 041006-1+041006-9, DS-15-1656. ISSN: 0022-0434, DOI: <a href="http://dx.doi.org/10.1115/1.4035090">http://dx.doi.org/10.1115/1.4035090</a> , The American Society of Mechanical Engineers. April 2017.
20	Miroslav Milovanović, Dragan Antić, Saša Nikolić, Staniša Perić, Marko Milojković, Miodrag Spasić, "Neural Network Based on Orthogonal Polynomials Applied in Magnetic Levitation System Control", Electronics and Electrical Engineering, vol. 23, no. 3, pp. 24-29. ISSN: 1392-1215, DOI: <a href="http://dx.doi.org/10.5755/j01.eie.23.3.18327">http://dx.doi.org/10.5755/j01.eie.23.3.18327</a> , Kaunas University of Technology. June 2017.

#### Збирни подаци научне активности nastavnika

Укупан број цитата	428	Број домаћих пројеката на којима наставник тренутно учествује	2
Укупан број радова са SCI (SSCI) листе	21	Број међународних пројеката на којима наставник тренутно учествује	2

#### Усавршавања

<b>Остали подаци који се сматрају релевантним</b>			
Шеф лабораторије за моделирање, симулацију и управљање системима			

## Научне квалификације наставника на докторским студијама и задужења у настави

<b>Презиме, средње слово, име</b>	Николић С. Саша		
<b>Звање</b>	Ванредни професор		
<b>Ужа научна област</b>	Аутоматика		
<b>Академска каријера</b>			
	<b>Датум</b>	<b>Институција</b>	<b>Област</b>
Избор у звање	28.01.2020	Универзитет у Нишу, Електронски факултет	Аутоматика
Докторат	13.10.2014	Универзитет у Нишу, Електронски факултет	Аутоматика
Диплома	26.10.2006	Универзитет у Нишу, Електронски факултет	Аутоматика
<b>Списак предмета које наставник држи на студијским програмима докторских студија</b>			
Р.б.	Назив предмета		
1	Идентификација система		
2	Интелигентно управљање		
3	Предиктивно управљање		
4			
5			
<b>Најзначајнији радови у складу са захтевима допунских стандарда за дато поље (10 до 20)</b>			
1	Saša S. Nikolić, Dragan S. Antić, Staniša Lj. Perić, Nikola B. Danković, Marko T. Milojković, "Design of Generalised Orthogonal Filters: Application to the Modelling of Dynamical Systems", International Journal of Electronics, vol. 103, no. 2, (2016), pp. 269–280. Print ISSN: 0020-7217, Publisher: Taylor & Francis. February 2016.		
2	Saša S. Nikolić, Dragan S. Antić, Marko T. Milojković, Miroslav B. Milovanović, Staniša Lj. Perić, Darko B. Mitić, "Application of Neural Networks with Orthogonal Activation Functions in Control of Dynamical Systems", International Journal of Electronics, vol. 103, no. 4, (2016), pp. 667–685. Print ISSN: 0020-7217, Publisher: Taylor & Francis. April 2016.		
3	Staniša Lj. Perić, Dragan S. Antić, Miroslav B. Milovanović, Darko B. Mitić, Marko T. Milojković, Saša S. Nikolić, "Quasi-Sliding Mode Control with Orthogonal Endocrine Neural Network-Based Estimator Applied in Anti-lock Braking System", IEEE/ASME Transactions on Mechatronics, vol. 21, no. 2, (2016), pp. 754–764. Print ISSN: 1083-4435, Publisher: IEEE. April 2016.		
4	Miroslav B. Milovanović, Dragan S. Antić, Marko T. Milojković, Saša S. Nikolić, Staniša Lj. Perić, Miodrag D. Spasić, "Adaptive PID Control Based on Orthogonal Endocrine Neural Networks", Neural Networks, vol. 84, (2016), pp. 80–90. Print ISSN: 0893-6080, Publisher: Elsevier Ltd. December 2016.		
5	Marko Milojković, Dragan Antić, Miroslav Milovanović, Saša S. Nikolić, Staniša Perić, Muhanad Almawlawe, "Modeling of Dynamic Systems Using Orthogonal Endocrine Adaptive Neuro-Fuzzy Inference Systems", Journal of Dynamic Systems, Measurement, and Control, vol. 137, no. 9, (2015), pp. 091013-1+091013-6, Print ISSN: 0022-0434, Publisher: The American Society of Mechanical Engineers. September 2015.		
6	Miroslav Milovanović, Dragan Antić, Marko Milojković, Saša S. Nikolić, Miodrag Spasić, Staniša Perić, "Time Series Forecasting with Orthogonal Endocrine Neural Network Based on Postsynaptic Potentials", Journal of Dynamic Systems, Measurement, and Control, vol. 139, no. 4, (2017), pp. 041006-1+041006-9, Print ISSN: 0022-0434, Publisher: The American Society of Mechanical Engineers. April 2017.		
7	Marko Milojković, Miroslav Milovanović, Saša S. Nikolić, Miodrag Spasić, Andjela Antić, "Designing Optimal Models of Nonlinear MIMO Systems Based on Orthogonal Polynomial Neural Networks", Mathematical and Computer Modelling of Dynamical Systems, vol. 27, no. 1, (2021), pp. 242–262. Print ISSN: 1387-3954, Publisher: Taylor & Francis. April 2021.		
8	Miroslav B. Milovanović, Dragan S. Antić, Saša S. Nikolić, Staniša Lj. Perić, Marko T. Milojković, Miodrag D. Spasić, "Neural Network Based on Orthogonal Polynomials Applied in Magnetic Levitation System Control", Electronics and Electrical Engineering, vol. 23, no. 3, (2017), pp. 24–29. Print ISSN: 1392-1215, Publisher: Kaunas University of Technology. June 2017.		
9	Nikola B. Danković, Dragan S. Antić, Saša S. Nikolić, Staniša Lj. Perić, Zoran H. Perić, Aleksandar V. Jocić, "The Probability of Stability Estimation of an Arbitrary Order DPCM Prediction Filter: Comparison Between the Classical Approach and the Monte Carlo Method", Information Technology and Control, vol. 46, no. 2, pp. 28–38. Print ISSN: 1392-124X, Publisher: Kaunas University of Technology. June 2017.		
10	Staniša Perić, Dragan Antić, Darko Mitić, Saša Nikolić, Marko Milojković, "Generalized Quasi-Orthogonal Polynomials Applied in Sliding Mode Based Minimum Variance Control of ABS", Acta Polytechnica Hungarica, vol. 17, no. 4, (2020), pp. 165–182. Print ISSN: 1785-8860, Publisher: Óbuda University, Hungary. March 2020.		
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#### Збирни подаци научне активности наставника

Укупан број цитата	434	Број домаћих пројеката на којима наставник тренутно учествује	2
Укупан број радова са SCI (SSCI) листе	30	Број међународних пројеката на којима наставник тренутно учествује	6

#### Усавршавања

#### Остали подаци који се сматрају релевантним


## Научне квалификације наставника на докторским студијама и задужења у настави

<b>Презиме, средње слово, име</b>	Раковић М. Мирко		
<b>Звање</b>	Ванредни професор		
<b>Ужа научна област</b>	Мехатроника, роботика и аутоматизација и интегрисани системи		
<b>Академска каријера</b>			
	<b>Датум</b>	<b>Институција</b>	<b>Област</b>
<b>Избор у звање</b>	13.02.2019.	Факултет техничких наука, УНС	Мехатроника, роботика, аутоматизација и интегрисани системи
<b>Докторат</b>	11.10.2013.	Факултет техничких наука, УНС	Роботика
<b>Диплома</b>	13.09.2005.	Факултет техничких наука, УНС	Електротехинка
<b>Списак предмета које наставник држи на студијским програмима докторских студија</b>			
<b>Р.б.</b>	<b>Назив предмета</b>		
1	Роботика и аутоматизација		
2			
3			
4			
5			
<b>Најзначајнији радови у складу са захтевима допунских стандарда за дато поље (10 до 20)</b>			
1	(CЏИе) Duarte N., Raković M., Tasevski J., Coco M., A. Billard, Santos-Victor J., "Action Anticipation: Reading the Intentions of Humans and Robots", IEEE Robotics and Automation Letters, October 2018		
2	(M22) Raković M., Anil G., Mihajlović Ž., Savić S., Naik S., Borovac B., Gottscheber, A., "Fuzzy Position-Velocity control of Underactuated Finger of FTN Robot Hand", Journal of Intelligent and Fuzzy Systems, ISSN: 1064-1246, vol. 34, No. 4, pp. 2723-2736, 2018		
3	(M21) Nikolić M., Borovac B., Raković M., "Dynamic balance preservation and prevention of sliding for humanoid robots in the presence of multiple spatial contacts", Multibody System Dynamics, ISSN: 1384-5640, Vol. 42, No. 2, pp 197–218, Springer Netherlands, 2018		
4	(M21a) Jovanović M., Raković M., Tepavčević B., Borovac B., Nikolić M.,: „Robotic fabrication of freeform foam structures with quadrilateral and puzzle shaped panels", Automation in Construction, ISSN: 0926-5805, Vol. 74, pp. 28-38, 2017		
5	(M22) Raković M., Borovac B.: "Instantaneous on-line modification of biped walk composed from reconfigurable adaptive motion primitives", Thermal Science, ISSN 0354-9836, Vol. 20, No. 2, pp: 513-523, 2016		
6	(M22) Savić S., Raković M., Borovac B., Nikolić M.,: "Hybrid motion control of humanoid robot for leader-follower cooperative tasks", Thermal Science, ISSN 0354-9836, Vol. 20, No. 2, pp: 549-561, 2016		
7	(M21a) Raković M., Borovac B., Nikolić M., Savić S.: "Realization of Biped Walking in Unstructured Environment using Motion Primitives", Tran. IEEE on Robotics, ISSN 1552-3098, Vol. 30, No. 6, pp: 1318 - 1332, 2014		
8	(M24) Savić S., Raković M., Penčić M., Borovac B., : "Nonlinear Motion Control of Humanoid Robot Upper-body for Manipulation Task, Facta Universitatis, Series: Automatic Control and Robotics, p. 1-14, ISSN 1820-6425, 2014		
9	(M23) Nikolić M., Borovac B., Raković M., Savić S.: "A Further Generalization of Task-Oriented Control Trough Tasks Prioritization", Int. Jour. of Humanoid Robotics, ISSN 0219-8436, Vol. 10, No. 3, 2013		
10	(M22) Borovac B., Nikolić M., Raković M.: "How to Compensate for the Disturbances that Jeopardize Dynamic Balance of a Humanoid Robot?", Int. Jour. of Humanoid Robotics, ISSN 0219-8436, Vol. 8, No. 3, 2011		
11	(M33) Schydlo P., Raković M., Jamone L. and Santos-Victor J., "Anticipation in Human-Robot Cooperation: A Recurrent Neural Network Approach for Multiple Action Sequences Prediction", IEEE International Conference on Robotics and Automation (ICRA). Brisbane, Australia, 21-25 May 2018		
12	(M33) Duarte N., Raković M., Marques J., and Santos-Victor J., "Action Alignment from Gaze Cues in Human-Human and Human-Robot Interaction", In European Conference on Computer Vision, pp. 197-212. Springer, Cham, 2018.		
13	(M33) Batinica A., Nemeč B., Ude A., Raković M., Gams A., "Compliant Movement Primitives in a Bimanual Setting", IEEE-RAS International Conference on Humanoid Robots, Humanoids 2017, 15-17 November 2017, Birmingham, UK		
14	(M33) Batinica A., Nemeč B., Santos-Victor J., Gams A., Raković M., "Generalization of Task Model using Compliant Movement Primitives in a Bimanual Setting", IEEE International Conference on Robotics and Biomimetics, IEEE-ROBIO 2017, 5-8 December 2017, Macao, China		

15	(M33) Raković M., Borovac B., J. Santos-Victor, Batinica A., Nikolić M., Savić S., „Biped Walking and Stairs Climbing using Reconfigurable Adaptive Motion Primitives”, 16th IEEE-RAS International Conference on Humanoid Robots, Cancun, Mexico, 2016
16	(M33) Raković M., Beronja M., Batinica A., Borovac B., Nikolić M., “3-axis Contact Force Fingertip Sensor based on a Hall effect Sensor”, 25th IEEE International Conference on Robotics in Alpe-Adria-Danube Region - RAAD, Beograd, Serbia, 2016
17	(M13) Branislav, B., Raković, M., Nikolić, M.: Online Generation of Biped Robot Motion in an Unstructured Environment. In Intelligent Systems: Models and Applications (pp. 93-114). Springer Berlin Heidelberg, 2013
18	(M13) Vukobratović M, Borovac B, Raković M, Nikolić M. How to cope with disturbances in biped locomotion?. InComplex Systems 2016 (pp. 285-312). Springer, Cham.
19	(M14) Borovac B, Gnjatović M, Savić S, Raković M, Nikolić M. Human-like robot marko in the rehabilitation of children with cerebral palsy. InNew trends in medical and service robots 2016 (pp. 191-203). Springer, Cham.
20	(M14) Vukobratović M, Borovac B, Raković M, Nikolić M. Generating Complex Movements of Humanoid Robots by Using Primitives. InInternational Conference on Research and Education in Robotics 2009 May 21 (pp. 158-172). Springer, Berlin, Heidelberg.

#### Збирни подаци научне активности наставника

Укупан број цитата	249	Број домаћих пројеката на којима наставник тренутно учествује	3
Укупан број радова са SCI (SSCI) листе	12	Број међународних пројеката на којима наставник тренутно учествује	2

#### Усавршавања

Experienced researcher - Instituto Superior Tecnico – Lisbon, Portugal, 2017-2018.  
Assistant professor at Heidelberg University of Applied Sciences – Germany, 2016.  
Research associate at Nanyang Technological University – Singapore, 2012.  
Visiting teaching assistant at University of Applied Sciences Technikum – Wien, Austria, 2010.

#### Остали подаци који се сматрају релевантним


## Научне квалификације наставника на докторским студијама и задужења у настави

<b>Презиме, средње слово, име</b>	Перић Љ. Станиша		
<b>Звање</b>	Доцент		
<b>Ужа научна област</b>	Аутоматика		
<b>Академска каријера</b>			
	<b>Датум</b>	<b>Институција</b>	<b>Област</b>
Избор у звање	17.12.2018	Универзитет у Нишу, Електронски факултет	Аутоматика
Докторат	12.03.2016.	Универзитет у Нишу, Електронски факултет	Аутоматика
Диплома	17.07.2009.	Универзитет у Нишу, Електронски факултет	Управљање системима

### Списак предмета које наставник држи на студијским програмима докторских студија

Р.б.	Назив предмета
1	Напредна мехатроника
2	Симулација индустријских система
3	Адаптивни системи аутоматског управљања
4	
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### Најзначајнији радови у складу са захтевима допунских стандарда за дато поље (10 до 20)

1	Saša Nikolić, Dragan Antić, Bratislav Danković, Marko Milojković, Zoran Jovanović, Staniša Perić, "Orthogonal Functions Applied in Antenna Positioning", <i>Advances in Electrical and Computer Engineering</i> , vol. 10, no. 4, 2010, pp. 35-42, <a href="http://dx.doi.org/10.4316/AECE.2010.04006">http://dx.doi.org/10.4316/AECE.2010.04006</a>
2	Dragan Antić, Saša Nikolić, Marko Milojković, Nikola Danković, Zoran Jovanović, Staniša Perić, "Sensitivity Analysis of Imperfect Systems Using Almost Orthogonal Filters", <i>Acta Polytechnica Hungarica</i> , vol. 8, no. 6, 2011, pp. 79-94, <a href="http://www.uni-obuda.hu/journal/Issue32.htm">http://www.uni-obuda.hu/journal/Issue32.htm</a>
3	Darko Mitić, Staniša Perić, Dragan Antić, Zoran Jovanović, Marko Milojković, Saša Nikolić, "Digital Sliding Mode Control of Anti-Lock Braking System", <i>Advances in Electrical and Computer Engineering</i> , vol. 13, no. 1, 2013, pp. 33-40. <a href="http://dx.doi.org/10.4316/AECE.2013.01006">http://dx.doi.org/10.4316/AECE.2013.01006</a>
4	Dragana M. Trajković, Vlastimir D. Nikolić, Dragan S. Antić, Saša S. Nikolić, Staniša Lj. Perić, "Application of the Hybrid Bond Graphs and Orthogonal Rational Filters in Sag Voltage Effect Reduction", <i>Electronics and Electrical Engineering</i> , vol. 19, no. 6, 2013, pp. 25-30, <a href="http://dx.doi.org/10.5755/j01.eee.19.6.1746">http://dx.doi.org/10.5755/j01.eee.19.6.1746</a>
5	Marko Milojković, Dragan Antić, Saša Nikolić, Zoran Jovanović, Staniša Perić, "On a new class of quasi-orthogonal filters", <i>International Journal of Electronics</i> , vol. 100, no. 10, 2013, pp. 1361-1372, <a href="http://dx.doi.org/10.1080/00207217.2012.743087">http://dx.doi.org/10.1080/00207217.2012.743087</a>
6	Staniša Perić, Dragan Antić, Vlastimir Nikolić, Darko Mitić, Marko Milojković, Saša Nikolić, "A New Approach to the Sliding Mode Control Design: Anti-lock Braking System as a Case Study", <i>Journal of Electrical Engineering</i> , vol. 65, no. 1, 2014, pp. 37-43, <a href="http://dx.doi.org/10.2478/jee-2014-0005">http://dx.doi.org/10.2478/jee-2014-0005</a>
7	Marko Milojković, Dragan Antić, Miroslav Milovanović, Saša S. Nikolić, Staniša Perić, Muhanad Almawlawe, "Modeling of Dynamic Systems Using Orthogonal Endocrine Adaptive Neuro-Fuzzy Inference Systems", <i>Journal of Dynamic Systems, Measurement, and Control</i> , vol. 137, no. 9, 2015, pp. DS-15-1098, <a href="http://dx.doi.org/10.1115/1.4030758">http://dx.doi.org/10.1115/1.4030758</a>
8	Miroslav Milovanović, Dragan Antić, Miodrag Spasić, Saša Nikolić, Staniša Perić, Marko Milojković, "Improvement of DC Motor Velocity Estimation Using Feedforward Neural Network", <i>Acta Polytechnica Hungarica</i> , vol. 12, no. 6, 2015, pp. 107-126, <a href="http://dx.doi.org/10.12700/APH.12.6.2015.6.7">http://dx.doi.org/10.12700/APH.12.6.2015.6.7</a>
9	Saša Nikolić, Dragan Antić, Marko Milojković, Miroslav Milovanović, Staniša Perić, Darko Mitić, "Application of Neural Networks with Orthogonal Activation Functions in Control of Dynamical Systems", <i>International Journal of Electronics</i> , vol. 103, no. 4, 2016, pp. 667-685, <a href="http://dx.doi.org/10.1080/00207217.2015.1036811">http://dx.doi.org/10.1080/00207217.2015.1036811</a>
10	Saša Nikolić, Dragan Antić, Staniša Perić, Nikola Danković, Marko Milojković, "Design of Generalised Orthogonal Filters: Application to the Modelling of Dynamical Systems", <i>International Journal of Electronics</i> , vol. 103, no. 2, 2016, pp. 269-280, <a href="http://dx.doi.org/10.1080/00207217.2015.1036367">http://dx.doi.org/10.1080/00207217.2015.1036367</a>
11	Staniša Perić, Dragan Antić, Miroslav Milovanović, Darko Mitić, Marko Milojković, Saša Nikolić, "Quasi-Sliding Mode Control with Orthogonal Endocrine Neural Network-Based Estimator Applied in Anti-Lock Braking System", <i>IEEE/ASME Transactions on Mechatronics</i> , vol. 21, no. 2, 2016, pp. 754-764, <a href="http://dx.doi.org/10.1109/TMECH.2015.2492682">http://dx.doi.org/10.1109/TMECH.2015.2492682</a>
12	Miroslav Milovanović, Dragan Antić, Marko Milojković, Saša Nikolić, Staniša Perić, Miodrag Spasić, "Adaptive PID Control Based on Orthogonal Endocrine Neural Networks", <i>Neural Networks</i> , vol. 84, 2016, pp. 80-90, <a href="http://dx.doi.org/10.1016/j.neunet.2016.08.012">http://dx.doi.org/10.1016/j.neunet.2016.08.012</a>
13	Nikola Danković, Zoran Perić, Dragan Antić, Staniša Perić, Saša Nikolić, "Robustness of the Prediction Filter in Differential Pulse Code Modulation System", <i>Electronics and Electrical Engineering</i> , vol. 22, no. 5, 2016, pp. 74-78, <a href="http://dx.doi.org/10.5755/j01.eie.22.5.16347">http://dx.doi.org/10.5755/j01.eie.22.5.16347</a>

14	Nikola Danković, Dragan Antić, Saša Nikolić, Staniša Perić, Marko Milojković, "A New Class of Cascade Orthogonal Filters based on a Special Inner Product with Application in Modeling of Dynamical Systems", Acta Polytechnica Hungarica, vol. 13, no. 7, 2016, pp. 63–82, <a href="http://dx.doi.org/10.12700/APH.13.7.2016.7.4">http://dx.doi.org/10.12700/APH.13.7.2016.7.4</a>		
15	Miroslav Milovanović, Dragan Antić, Marko Milojković, Saša S. Nikolić, Miodrag Spasić, Staniša Perić, "Time Series Forecasting with Orthogonal Endocrine Neural Network Based on Postsynaptic Potentials", Journal of Dynamic Systems, Measurement, and Control, vol. 139, no. 4, 2017, pp. 041006-1÷041006-9, DS-15-1656, <a href="http://dx.doi.org/10.1115/1.4035090">http://dx.doi.org/10.1115/1.4035090</a>		
16	Miroslav Milovanović, Dragan Antić, Saša Nikolić, Staniša Perić, Marko Milojković, Miodrag Spasić, "Neural Network Based on Orthogonal Polynomials Applied in Magnetic Levitation System Control", Electronics and Electrical Engineering, vol. 23, no. 3, 2017, pp. 24–29, <a href="http://dx.doi.org/10.5755/j01.eie.23.3.18327">http://dx.doi.org/10.5755/j01.eie.23.3.18327</a>		
17	Nikola Danković, Dragan Antić, Zoran Perić, Aleksandar Jocić, Saša Nikolić, Staniša Perić, "The Probability of Stability Estimation of an Arbitrary Order DPCM Prediction Filter: Comparison between the Classical Approach and the Monte Carlo Method", Information Technology and Control, vol. 46, no. 2, 2017, pp. 28–38, <a href="http://dx.doi.org/10.5755/j01.itc.46.2.14038">http://dx.doi.org/10.5755/j01.itc.46.2.14038</a>		
18			
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20			
<b>Збирни подаци научне активности наставника</b>			
Укупан број цитата	293	Број домаћих пројеката на којима наставник тренутно учествује	2
Укупан број радова са SCI (SSCI) листе	22	Број међународних пројеката на којима наставник тренутно учествује	2
<b>Усавршавања</b>			
<b>Остали подаци који се сматрају релевантним</b>			



## Научне квалификације наставника на докторским студијама и задужења у настави

Презиме, средње слово, име	Данковић Б. Никола		
Звање	Доцент		
Ужа научна област	Аутоматика		
Академска каријера			
	Датум	Институција	Област
Избор у звање	11.09.2020	Универзитет у Нишу, Електронски факултет	Аутоматика
Докторат	20.02.2018	Универзитет у Нишу, Електронски факултет	Аутоматика
Диплома	25.03.2009	Универзитет у Нишу, Електронски факултет	Телекомуникације
<b>Списак предмета које наставник држи на студијским програмима докторских студија</b>			
Р.б.	Назив предмета		
1	Идентификација система		
2	Робустно управљање		
3	Дистрибуирано рачунарско управљање		
4	Симулација индустријских система		
5			
<b>Најзначајнији радови у складу са захтевима допунских стандарда за дато поље (10 до 20)</b>			
1	Dragan Antić, Saša Nikolić, Marko Milojković, Nikola Danković, Zoran Jovanović, Staniša Perić, "Sensitivity Analysis of Imperfect Systems Using Almost Orthogonal Filters", Acta Polytechnica Hungarica, vol. 8, no. 6, 2011, pp. 79-94. Print ISSN: 1785-8860, www.uni-obuda.hu/journal, Publisher: Óbuda University, Hungary. December 2011.		
2	Dragan Antić, Zoran Jovanović, Vlastimir Nikolić, Marko Milojković, Saša Nikolić, Nikola Danković, "Modeling of Cascade-connected Systems using Quasi-orthogonal Functions", Electronics and Electrical Engineering, vol. 18, no. 10, 2012, pp. 3-8. Print ISSN: 1392-1215, (Doi No: <a href="http://dx.doi.org/10.5755/j01.eee.18.10.3051">http://dx.doi.org/10.5755/j01.eee.18.10.3051</a> ), Publisher: Kaunas University of Technology. December 2012.		
3	Saša S. Nikolić, Dragan S. Antić, Staniša Lj. Perić, Nikola B. Danković, Marko T. Milojković, "Design of Generalised Orthogonal Filters: Application to the Modelling of Dynamical Systems", International Journal of Electronics, vol. 103, no. 2, 2016, pp. 269-280. Print ISSN: 0020-7217, (Doi No: <a href="http://dx.doi.org/10.1080/00207217.2015.1036367">http://dx.doi.org/10.1080/00207217.2015.1036367</a> ), Publisher: Taylor & Francis. March 2016.		
4	Nikola B. Danković, Zoran H. Perić, Dragan S. Antić, Staniša Lj. Perić, Saša S. Nikolić, "Robustness of the Prediction Filter in Differential Pulse Code Modulation System", Electronics and Electrical Engineering, vol. 22, no. 5, 2016, pp. 74-78. Print ISSN: 1392-1215, (Doi No: <a href="http://dx.doi.org/10.5755/j01.eie.22.5.16347">http://dx.doi.org/10.5755/j01.eie.22.5.16347</a> ), Publisher: Kaunas University of Technology. October 2016.		
5	Nikola B. Danković, Dragan S. Antić, Saša S. Nikolić, Staniša Lj. Perić, Marko T. Milojković, "A New Class of Cascade Orthogonal Filters based on a Special Inner Product with Application in Modeling of Dynamical Systems", Acta Polytechnica Hungarica, vol. 13, no. 7, 2016, pp. 63-82. Print ISSN: 1785-8860, (Doi No: <a href="http://dx.doi.org/10.12700/APH.13.7.2016.7.4">http://dx.doi.org/10.12700/APH.13.7.2016.7.4</a> ), Publisher: Óbuda University, Hungary. December 2016.		
6	Nikola B. Danković, Dragan S. Antić, Zoran H. Perić, Aleksandar V. Jocić, Saša S. Nikolić, Staniša Lj. Perić, "The Probability of Stability Estimation of an Arbitrary Order DPCM Prediction Filter: Comparison between the Classical Approach and the Monte Carlo Method", Information Technology and Control, vol. 46, no. 2, 2017, pp. 28-38. Print ISSN: 1392-124X, (Doi No: <a href="http://dx.doi.org/10.5755/j01.itc.46.2.14038">http://dx.doi.org/10.5755/j01.itc.46.2.14038</a> ), Publisher: Kaunas University of Technology. June 2017.		
7	Nikola Danković, Dragan Antić, Saša Nikolić, Staniša Perić, Miodrag Spasić, "Generalized Cascade Orthogonal Filters based on Symmetric Bilinear Transformation with Application to Modeling of Dynamic Systems", Filomat, vol. 32, no. 12, 2018, pp. 4275-4284. Print ISSN: 2406-0933, (Doi No: <a href="https://doi.org/10.2298/FIL1812275D">https://doi.org/10.2298/FIL1812275D</a> ), Publisher: the Faculty of Sciences and Mathematics, University of Niš. December 2018.		
8	Nikola Danković, Dragan Antić, Saša Nikolić, Marko Milojković, Staniša Perić, "New Class of Digital Malmquist-Type Orthogonal Filters based on Generalized Inner Product; Application to Modeling DPCM System", FACTA UNIVERSITATIS Series: Mechanical Engineering, vol. 17, no. 3, 2019, pp. 385-396., Print ISSN: 0354-2025, (Doi No: <a href="https://doi.org/10.22190/FUME190327034D">https://doi.org/10.22190/FUME190327034D</a> ), Publisher: University of Niš. December 2019.		
9	Marko T. Milojković, Andjela D. Djordjevic, Staniša Lj. Perić, Miroslav B. Milovanović, Zoran H. Perić, Nikola B. Danković, "Model Predictive Control of Nonlinear MIMO Systems Based on Adaptive Orthogonal Polynomial Networks", Electronics and Electrical Engineering, vol. 27, no. 2, 2021, pp. 4-10. Print ISSN: 1392-1215, (Doi No: <a href="http://dx.doi.org/10.5755/j02.eie.28780">http://dx.doi.org/10.5755/j02.eie.28780</a> ), Publisher: Kaunas University of Technology. April 2021.		

10	Nikola Danković, Dragan Antić, Zoran Ičić, Stanko Stankov, Dejan Mitić, Marko Živković, "Control System of Steel Battery Charger", FACTA UNIVERSITATIS Series: Automatic Control and Robotics, vol. 16, no. 3, 2017, pp. 241–252., Print ISSN: 1820-6417, (Doi No: <a href="https://doi.org/10.22190/FUACR1703241D">https://doi.org/10.22190/FUACR1703241D</a> ), Publisher: University of Niš. December 2017.		
11	Nikola Danković, Zoran Perić, Dragan Antić, Darko Mitić, Miodrag Spasić, "On the Sensitivity of the Recursive Filter with Arbitrary Order Predictor in DPCM System", Serbian Journal of Electrical Engineering, vol. 11, no. 4, 2014, pp. 609-616., Print ISSN: 1451-4869, (Doi No: <a href="http://dx.doi.org/10.2298/SJEE1404609D">http://dx.doi.org/10.2298/SJEE1404609D</a> ), Publisher: Faculty of Technical sciences, Čačak, Serbia. December 2014.		
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<b>Збирни подаци научне активности наставника</b>			
Укупан број цитата	127	Број домаћих пројеката на којима наставник тренутно учествује	2
Укупан број радова са SCI (SSCI) листе	9	Број међународних пројеката на којима наставник тренутно учествује	0
<b>Усавршавања</b>			
<b>Остали подаци који се сматрају релевантним</b>			

## Научне квалификације наставника на докторским студијама и задужења у настави

Презиме, средње слово, име	Миловановић Б. Мирослав		
Звање	Доцент		
Ужа научна област	Аутоматика		
Академска каријера			
	Датум	Институција	Област
Избор у звање	11.07.2020.	Универзитет у Нишу, Електронски факултет	Аутоматика
Докторат	16.3.2018.	Универзитет у Нишу, Електронски факултет	Аутоматика
Диплома	7.10.2011.	Универзитет у Нишу, Електронски факултет	Управљање системима

### Списак предмета које наставник држи на студијским програмима докторских студија

Р.б.	Назив предмета
1	Теорија система
2	Интелигентно управљање
3	Адаптивни системи аутоматског управљања
4	Математички модели у индустрији
5	

### Најзначајнији радови у складу са захтевима допунских стандарда за дато поље (10 до 20)

1	Miroslav B. Milovanović, Dragan S. Antić, Marko T. Milojković and Miodrag D. Spasić, "Adaptive Control of Nonlinear MIMO System With Orthogonal Endocrine Intelligent Controller," in IEEE Transactions on Cybernetics, vol. 52, no. 2, pp. 1221-1232, Feb. 2022, doi: 10.1109/TCYB.2020.2998505.
2	Miroslav B. Milovanović, Dragan S. Antić, Marko T. Milojković, Saša S. Nikolić, Staniša Lj. Perić, Miodrag D. Spasić, "Adaptive PID Control Based on Orthogonal Endocrine Neural Networks", Neural Networks, vol. 84, pp. 80–90, Print ISSN: 0893-6080, (Doi No: <a href="http://dx.doi.org/10.1016/j.neunet.2016.08.012">http://dx.doi.org/10.1016/j.neunet.2016.08.012</a> ), Publisher: Elsevier, December 2016.
3	Staniša Lj. Perić, Dragan S. Antić, Miroslav B. Milovanović, Darko B. Mitić, Marko T. Milojković, Saša S. Nikolić, "Quasi-Sliding Mode Control with Orthogonal Endocrine Neural Network-Based Estimator Applied in Anti-Lock Braking System", IEEE/ASME Transactions on Mechatronics, vol. 21, no. 2, pp. 754–764., Print ISSN: 1083-4435, (Doi No: <a href="http://dx.doi.org/10.1109/TMECH.2015.2492682">http://dx.doi.org/10.1109/TMECH.2015.2492682</a> ), Publisher: IEEE, April 2016.
4	Miroslav Milovanović, Dragan Antić, Milena Rajić, Pedja Milosavljević, Ana Pavlović, Cristiano Fragassa, "Wood Resource Management Using an Endocrine NARX Neural Network", European Journal of Wood and Wood Products, vol. 76, no. 2, pp. 687–697, Print ISSN: 0018-3768 (Doi No: <a href="https://doi.org/10.1007/s00107-017-1223-6">https://doi.org/10.1007/s00107-017-1223-6</a> ), Publisher: Springer Berlin Heidelberg, March 2018.
5	Miroslav B. Milovanović, Dragan S. Antić, Miodrag D. Spasić, Saša S. Nikolić, Staniša Lj. Perić, Marko T. Milojković, "Improvement of DC Motor Velocity Estimation Using Feedforward Neural Network", Acta Polytechnica Hungarica, vol. 12, no. 6, pp. 107–126., ISSN: 1785-8860, (Doi No: 10.12700/APH.12.6.2015.6.7), Publisher: Óbuda University, Hungary, November 2015.
6	Saša S. Nikolić, Dragan S. Antić, Marko T. Milojković, Miroslav B. Milovanović, Staniša Lj. Perić, Darko B. Mitić, "Application of Neural Networks with Orthogonal Activation Functions in Control of Dynamical Systems", International Journal of Electronics, vol. 103, no. 4, pp. 667–685., Print ISSN: 0020-7217, (Doi No: <a href="http://dx.doi.org/10.1080/00207217.2015.1036811">http://dx.doi.org/10.1080/00207217.2015.1036811</a> ), Publisher: Taylor & Francis, April 2016.
7	Marko T. Milojković, Dragan S. Antić, Miroslav B. Milovanović, Saša S. Nikolić, Staniša Lj. Perić, Muhanad Almalawwe, "Modeling of Dynamic Systems Using Orthogonal Endocrine Adaptive Neuro-Fuzzy Inference Systems", Journal of Dynamic Systems Measurement and Control, vol. 137, no. 9, ISSN: 0022-0434, (Doi No: <a href="http://dx.doi.org/10.1115/1.4030758">http://dx.doi.org/10.1115/1.4030758</a> ), Publisher: American Society of Mechanical Engineers, July 2015.
8	Miroslav Milovanović, Dragan Antić, Marko Milojković, Saša S. Nikolić, Miodrag Spasić, Staniša Perić, "Time Series Forecasting with Orthogonal Endocrine Neural Network Based on Postsynaptic Potentials", Journal of Dynamic Systems, Measurement, and Control, vol. 139, no. 4, pp. 041006-1+041006-9, DS-15-1656, Print ISSN: 0022-0434, (Doi No: <a href="http://dx.doi.org/10.1115/1.4035090">http://dx.doi.org/10.1115/1.4035090</a> ), Publisher: American Society of Mechanical Engineers, April 2017.
9	Miroslav B. Milovanović, Dragan S. Antić, Saša S. Nikolić, Staniša Lj. Perić, Marko T. Milojković, Miodrag D. Spasić, "Neural Network Based on Orthogonal Polynomials Applied in Magnetic Levitation System Control", Electronics and Electrical Engineering, vol. 23, no. 3, (2017), pp. 24–29. Print ISSN: 1392-1215, (Doi No: <a href="http://dx.doi.org/10.5755/j01.eie.23.3.13167">http://dx.doi.org/10.5755/j01.eie.23.3.13167</a> ), Publisher: Kaunas University of Technology, June 2017.
10	Milena N. Rajić, Miroslav B. Milovanović, Dragan S. Antić, Rado M. Maksimović, Pedja M. Milosavljević, Dragan Lj. Pavlović, "Analyzing energy poverty using intelligent approach," Energy & Environment, vol. 31, no. 8, pp. 1448-1472, (Doi No: <a href="https://doi.org/10.1177/0958305X20907087">https://doi.org/10.1177/0958305X20907087</a> ), Publisher: SAGE, 2020.
11	Nikola Danković, Darko Mitić, Marko Milojković, Stanko Stankov, Miroslav Milovanović, "Thermodynamic Model of the Protector Cooling System with Applications", FACTA UNIVERSITATIS Series: Electronics and Energetics, vol. 26, no. 1, pp. 53–60., Print ISSN: 0353-3670, (Doi No: 10.2298/FUEE1301053D), Publisher: University of Niš, 2013.
12	Staniša Perić, Dragana Trajković, Dragan Antić, Vlastimir Nikolić, Saša S. Nikolić, Miroslav Milovanović, "Fuzzy-PI Control of Water Pumps Modelled by Hybrid Bond Graphs", FACTA UNIVERSITATIS Series: Automatic Control and Robotics, vol. 14, no. 1, pp. 29–42., Print ISSN: 1820-6417, Publisher: University of Niš, 2015.

13	Miroslav B. Milovanović, Dragan S. Antić, Saša S. Nikolić, Miodrag D. Spasić, Staniša Lj. Perić, Marko T. Milojković, "Data Denoising Procedure for Neural Network Performance Improvement", FACTA UNIVERSITATIS Series: Automatic Control and Robotics, vol. 14, no. 3, pp. 173–182., Print ISSN: 1820-6417, Publisher: University of Niš, 2015.
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#### Збирни подаци научне активности наставника

Укупан број цитата		Број домаћих пројеката на којима наставник тренутно учествује	
Укупан број радова са SCI (SSCI) листе		Број међународних пројеката на којима наставник тренутно учествује	

#### Усавршавања

<b>Остали подаци који се сматрају релевантним</b>			

## Научне квалификације наставника на докторским студијама и задужења у настави

<b>Презиме, средње слово, име</b>	Спасић Д. Миодраг		
<b>Звање</b>	Доцент		
<b>Ужа научна област</b>	Аутоматика		
<b>Академска каријера</b>			
	<b>Датум</b>	<b>Институција</b>	<b>Област</b>
Избор у звање	25.02.2021.	Универзитет у Нишу, Електронски факултет	Аутоматика
Докторат	02.12.2019.	Универзитет у Нишу, Електронски факултет, Норвешка	Аутоматика
Диплома	14.05.2010.	Универзитет у Нишу, Електронски факултет	Аутоматика

### Списак предмета које наставник држи на студијским програмима докторских студија

Р.б.	Назив предмета
1	Рачунарско управљање системима
2	Оптимално управљање
3	Системи променљиве структуре
4	Предиктивно управљање
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### Најзначајнији радови у складу са захтевима допунских стандарда за дато поље (10 до 20)

1	Miroslav B. Milovanović, Dragan S. Antić, Marko T. Milojković, and Miodrag D. Spasić, "Adaptive Control of Nonlinear MIMO System with Orthogonal Endocrine Intelligent Controller", in IEEE Transactions on Cybernetics, vol. 52, no.2, pp. 1221-1232, Feb. 2022, doi: 10.1109/TCYB.2020.2998505, ISSN: 2168-2267. February 2022.
2	Miodrag Spasić, Darko B. Mitić, Morten Hovd, Dragan Antić, " Predictive Sliding Mode Control Based on Laguerre Functions", Journal of Control Engineering and Applied Informatics (CEAI), vol. 21, no. 1, (2019), pp. 12-20. ISSN: 1454-8658. Publisher: Romanian Society of Control Engineering and Technical Informatics. March 2019.
3	Miroslav B. Milovanović, Dragan S. Antić, Saša S. Nikolić, Staniša Lj. Perić, Marko T. Milojković, Miodrag D. Spasić, "Neural Network Based on Orthogonal Polynomials Applied in Magnetic Levitation System Control", Elektronika Ii Elektrotehnika, vol. 23, no. 3, (2017), pp. 24–29. Print ISSN: 1392-1215, ( <a href="http://dx.doi.org/10.5755/j01.eie.23.3.18327">http://dx.doi.org/10.5755/j01.eie.23.3.18327</a> ), Publisher: Kaunas University of Technology. June 2017.
4	Miroslav Milovanović, Dragan Antić, Marko Milojković, Saša S. Nikolić, Miodrag Spasić, Staniša Perić, "Time Series Forecasting with Orthogonal Endocrine Neural Network Based on Postsynaptic Potentials", Journal of Dynamic Systems, Measurement, and Control, vol. 139, no. 4, (2017), pp. 041006-1+041006-9, DS-15-1656. Print ISSN: 0022-0434, ( <a href="http://dx.doi.org/10.1115/1.4035090">http://dx.doi.org/10.1115/1.4035090</a> ), Publisher: The American Society of Mechanical Engineers. April 2017
5	Miodrag D. Spasić, Morten Hovd, Darko B. Mitić, Dragan S. Antić, "Tube Model Predictive Control with an Auxiliary Sliding Mode Controller", Modeling, Identification and Control, vol. 37, no. 3, (2016), pp. 181-193. ( <a href="http://dx.doi.org/10.4173/mic.2016.3.4">http://dx.doi.org/10.4173/mic.2016.3.4</a> ) ISSN: 0332-7353. Publisher: Norwegian Society of Automatic Control. November 2016.
6	Miroslav B. Milovanović, Dragan S. Antić, Marko T. Milojković, Saša S. Nikolić, Staniša Lj. Perić, Miodrag D. Spasić, "Adaptive PID control based on orthogonal endocrine neural networks", Neural Networks, vol. 84, (2016), pp. 80-90. ( <a href="http://dx.doi.org/10.1016/j.neunet.2016.08.012">http://dx.doi.org/10.1016/j.neunet.2016.08.012</a> ) ISSN: 0893-6080. Publisher: ELSEVIER. December 2016.
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#### Збирни подаци научне активности наставника

Укупан број цитата	166	Број домаћих пројеката на којима наставник тренутно учествује	2
Укупан број радова са SCI (SSCI) листе	9	Број међународних пројеката на којима наставник тренутно учествује	3

#### Усавршавања

#### Остали подаци који се сматрају релевантним


## Научне квалификације наставника на докторским студијама и задужења у настави

<b>Презиме, средње слово, име</b>	Николић Н. Милутин		
<b>Звање</b>	Доцент		
<b>Ужа научна област</b>	Мехатроника, роботика и аутоматизација и интегрисани системи		
<b>Академска каријера</b>			
	<b>Датум</b>	<b>Институција</b>	<b>Област</b>
Избор у звање	10.07.2015.	Факултет техничких наука, Универзитет у Новом Саду	Мехатроника, роботика и аутоматизација и интегрисани системи
Докторат	15.05.2015.	Факултет техничких наука, Универзитет у Новом Саду	Роботика
Диплома	31.09.2008.	Факултет техничких наука, Универзитет у Новом Саду	Роботика
<b>Списак предмета које наставник држи на студијским програмима докторских студија</b>			
Р.б.	Назив предмета		
1	Роботика и аутоматизација		
2			
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<b>Најзначајнији радови у складу са захтевима допунских стандарда за дато поље (10 до 20)</b>			
1	<b>M21a</b> Jovanović M.; Raković M., Terapčević B., Borovac B., Nikolić M., Robotic fabrication of freeform foam structures with quadrilateral and puzzle shaped panels, Automation in Construction ISSN: 0926-5805, Vol. 74, pp. 28-38, 2017		
2	<b>M21a</b> Raković, M., Borovac, B., Nikolić, M., Savić, S., Realization of Biped Walking in Unstructured Environment using Motion Primitives, IEEE Transactions on Robotics ISSN: 1552-3098, Vol. 30, No. 6, Str. 1318-1332, UDK DOI: 10.1109/TRO.2014.2344431, 2014		
3	<b>M21</b> Nikolić M., Borovac, B. Raković, M., Dynamic balance preservation and prevention of sliding for humanoid robots in the presence of multiple spatial contacts, Multibody System Dynamics, Vol 42, No 2, pp 197–218 ISSN: 1384-5640, pp. 1-22, DOI: 10.1007/s11044-017-9572-9, Springer Netherlands, 2018		
4	<b>M21</b> Kovacic, I., Radomirovic, D., Zukovic, M., Pavel, B., Nikolic, M. Characterisation of tree vibrations based on the model of orthogonal oscillations. Scientific reports, Number 8, vol 1, 8558, DOI 10.1038/s41598-018-26726-5, Nature, 2018		
5	<b>M22</b> Savić S.; Raković M., Borovac B., Nikolić M., Hybrid Motion Control of Humanoid Robot for Leader-Follower Cooperative Tasks, Thermal Science ISSN: 0354-9836, DOI: 10.2298/TSCI151005037S, Vinča Institute of Nuclear Sciences, Belgrade, 2016		
6	<b>M22</b> Borovac B., Nikolić M., Raković M.,: "How to Compensate for the Disturbances that Jeopardize Dynamic Balance of a Humanoid Robot?", Int. Jour. of Humanoid Robotics, Vol. 8, No. 3, ISSN 0219-8436, 2011.		
7	<b>M23</b> Nikolić M., Borovac, B. Raković, M., Savić, S., A Further Generalization of Task-Oriented Control Trough Tasks Prioritization, International Journal of Humanoid Robotics, ISSN: 0219-8436, Vol. 10 No. 3, World Scientific, pp. 1-29, DOI:10.1142/S0219843613500126, ISBN 0219-8436, 2013		
8	<b>M13</b> Vukobratović M., Borovac B., Raković M., Nikolić M., How to Cope with Disturbances in Biped Locomotion?, Complex Systems: Relationships between Control, Communications and Computing, Vol. 55, UDK 10.1007/978-3-319-28860-4_13, ISBN 978-3-319-28860-4, Springer International Publishing; pp. 285-312, 2016		
9	<b>M13</b> B. Borovac, M. Raković, M. Nikolić, Online Generation of Biped Robot Motion in an Unstructured Environment, Intelligent Systems: Models and Applications Vol. 3, UDK 10.1007/978-3-642-33959-2, ISBN 978-3-642-33958-5, Springer Berlin Heidelberg, pp. 93-114, 2013.		
10	<b>M14</b> Borovac B.; Gnjatović M., Savić S., Raković M., Nikolić M., Human-like Robot MARKO in the Rehabilitation of Children with Cerebral Palsy, New Trends in Medical and Service Robots, series Mechanisms and Machine Science, Vol. 38, No. 3, , ISBN 978-3-319-23831-9, Springer International Publishing; pp 191-203, 2015		
11	<b>M14</b> Vukobratović M., Borovac B., Raković M., Nikolić M., Generating Complex Movements of Humanoid Robots by Using Primitives, Communications in Computer and Information Science Vol. 82, Research and Education in Robotics - Eurobot 2009, UDK DOI: 10.1007/978-3-642-16370-8_14, ISBN 978-3-642-16369-2, Springer Berlin Heidelberg, pp. 158-172, 2009.		
12	<b>M33</b> Batinica A., Raković M., Zarić M., Borovac B., Nikolić M., Motion Planning of a Robot in Real-Time based on the General Model of Humanoid Robots, IEEE International Symposium on Intelligent Systems and Informatics (SISY), Subotica, Serbia, 2016		

13	M33 Raković M., Borovac B., Santos-Victor J., Batinica A., Nikolić M., Savić S., Biped Walking and Stairs Climbing using Reconfigurable Adaptive Motion Primitives, IEEE-RAS International Conference on Humanoid Robots (Humanoids), Cancun, Mexico, 2016		
14	M33 Raković M., Beronja M., Batinica A., Borovac B., Nikolić M., 3-axis Contact Force Fingertip Sensor based on a Hall effect Sensor, IEEE International Conference on Robotics in Alpe-Adria-Danube Region - RAAD, Beograd, Serbia, 2016		
15	M33 Nikolić M., Savić S., Borovac B., Raković M., Task Prioritization Framework for Kinesthetic Teaching of a Free-Standing Humanoid Robot, IEEE 13th International Symposium on Intelligent Systems and Informatics (SISY), September 17-19, 2015, Subotica, Serbia, pp 241-246, 2015		
16	M33 Nikolić M. Borovac B., Raković M., , Walking on Slippery Surfaces: Generalized Task-Prioritization Framework Approach , ROMANSY-CISM-IFTtoMM SYMPOSIUM on Theory and Practice of Robots and Manipulators , Vol. 22, Str. 189-196, UDK 10.1007/978-3-319-07058-2_22, ISBN 978-3-319-07057-5 2014.		
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Укупан број радова са SCI (SSCI) листе	7	Број међународних пројеката на којима наставник тренутно учествује	1
<b>Усавршавања</b>			
Specially Appointed Assistant Professor at Nakamura-Yamamoto Lab, University of Tokyo, 16. 3. 2019. - 15. 3. 2020.			
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