

## 5.

Назив пројекта:	Истраживање и развој енергетски и еколошки високоенфективних система полигенерације заснованих на обновљивим изворима енергије			
Евиденциони број:	42006			
Руководилац:	Велимир Стефановић			
Организација координатор и учесник:	Машински факултет Универзитета у Нишу Факултет техничких наука у Косовској Митровици			
Корисник:				
Број месеци истраживача:	Број месеци истраживача са ФТН је 12			
Трајање пројекта:	2011.- јун 2016.			

### Запослени са пуним радним временом на ФТН који учествују у реализацији пројекта

р.бр.	Име и презиме	Звање	Број истраж. месеци	Категорија
1	Славица Цветковић	Редовни професор	4	T3
2	Милан Ђорђевић	Асистент	8	T7

### Резултати рада на пројекту које су остварили учесници са ФТН у Косовској Митровици у последње 4 године (2012-2015)

р.бр.	Рад	Категорија
1	Anicic, O., Petković, D., <b>Cvetkovic, S.</b> , Evaluation of Wind Turbine Noise by Soft Computing Methodologies: A Comparative Study", <i>Renewable and Sustainable Energy Reviews</i> , 56 (2016), pp. 1122–1128.	M21
2	<b>Đorđević, M.</b> , Velimir Stefanović, V., Mančić, M., Pressure Drop and Stability of Flow in Archimedean Spiral Tube with Transverse Corrugations, <i>Thermal Science</i> , DOI REFERENCE: 10.2298/TSCI15011821D, PUBLISHED ONLINE: 2016-01-01	M22
3	Kalaba, D., <b>Đorđević, M.</b> , Kirin, S., Determining the Reliability Function of Thermal Power System in Power Plant "Nikola Tesla, Block B1", <i>Thermal Science</i> , 19 (2015), pp. 793-800.	M22
4	Kalaba, D., Radaković, Z., <b>Đorđević, M.</b> , Kirin, S., Determining the Theoretical Reliability Function of Thermal Power System Using Simple and Complex Weibull Distribution, <i>Thermal Science</i> , 18 (2014), pp. S229-S238.	M22
5	<b>Cvetković, S.</b> , Cvetković, M., Rationaly of the Transport Stationary Communal Waste, <i>Journal of Environmental Protection and Ecology-JEPE</i> , 13(2012), pp. 775-780, ISSN: 1311- 5065, DOI: 1753/20.01.2010,	M23
6	Cvetković, M., Radosavljević, J., Stojanović, N., <b>Cvetković, S.</b> , The Planning of the Reserves of the Reproductive Material in Order to Provide the Continuity of the Production Process, <i>Technics Technologies Education Management-TTEM</i> , 7 (2012), pp. 1542-1549, ISSN 1840-1503	M23
7	Antic, R., <b>Cvetković, S.</b> , Cvetković, M., Defining Manufacturability of Manufacturing Process Metal Cutting by Fuzzy Logic for Manufacturing Product, <i>Metalurgia International</i> , ISSN 1582-2214, VOL. XVIII N O. 6, pp. 130-138.	M23
8	Kalaba, D., <b>Đorđević , M.</b> , Ivanović, V., Determining the Theoretical Reliability Functions of Boiler Tubing System in Power Plant "Nikola Tesla, Block A4", <i>Structural Integrity And Life</i> , 15 (2015), pp. 167-171.	M24
9	Pavlović, S., Stefanović, V., Petrović, E., <b>Cvetković, S.</b> , Optical Analysis Of A Parabolic Concentrator Of Solar Radiation Based Of Trapezoidal Reflective Petals, 45 <sup>th</sup> International Congress & Exhibitionon Heating, Refrigeration And Air Conditioning Belgrade, 3–5. XII 2014, <i>Proceedings</i> , ISBN 978-86-81505-75-5, COBISS.SR-ID 211389196, pp. 103 – 110.	M33
10	Antic, R., <b>Cvetkovic, S.</b> , Pejovic, B., Cvetkovic, M., CAPP Model of Fuzzy Systems and Fuzzy Manufacturability, <i>Journal of Process Management – New Technologies</i> ,	M52

	International, ISSN 2334-7449, 2013, Vol. 1No.4 (36- 42), www.japmnt.com,	
11	Đorđević, M., Mančić, M., Mitrović, D., Energy and Exergy Analysis of Coal Fired Power Plant, <i>FACTA UNIVERSITATIS, Series: Working and Living Environmental Protection</i> , 11 (2014), pp. 163-175.	M51
12	Antic, R., Cvetković, S., Pejovic, B., Cvetkovic, M., Definition of Manufacturability Product of Mathematical Expressions and Fuzzy Logic for his Early Design, <i>International Journal of Engineering and Technology</i> , 2 (2013), pp. 239-246, ISSN 2227-524X, DOI :10.14419/ijet.v2i3.1082	M51
13	Đorđević, M., Stefanović, V., Pavlović, S., Mančić, M., Numerical Analyses of the Radian Heat Flux Produced by Quartz Heating System, <i>Proceedings of the 3<sup>rd</sup> International Conference Mechanical Engineering in XXI Century, MASING 2015</i> , September 17-18, 2015, Niš, Serbia, ISBN 978-86-6065-072-1, pp. 75-80.	M33
14	Mančić, M., Živković, D., Todorović, M., Jovanović, M., Đorđević, M., Optimization Of Capacity Of Biogas Cogeneration System For An Integrated Pig Farm, <i>Proceedings of V International Conference Industrial Engineering and Environmental Protection (IIZS 2015)</i> , pp 346-356, ISBN 978-86-7672-259-4	M33
15	Kocić, S., Petrović, I., Mančić, M., Živković, Đorđević, M., Comparative Analysis of Energy Efficiency of Two Indoor Swimming Pools Using the Energy Balance Method, <i>Proceedings of V International Conference Industrial Engineering and Environmental Protection (IIZS 2015)</i> , pp 22-32, ISBN 978-86-7672-259-4	M33
16	Pavlović, S., Vasiljević, D., Stefanović, V., Đorđević, M., Mančić, M., Ray Tracing Study to Determine Optical Performance of Dish Solar Thermal Concentrator, <i>17<sup>th</sup> Symposium on Thermal Science and Engineering of Serbia</i> , Sokobanja, Serbia, October 20–23, 2015, ISBN 978-86-6055-076-9	M33
17	Đorđević, M., Stefanović, V., Vukić, M., Numerical Investigation on the Convective Heat Transfer in a Spiral Coil with Radiant Heating, <i>Proceedings of the 17<sup>th</sup> Symposium on Thermal Science and Egineering of Serbia, SIMTERM 2015</i> , October 20-23, 2015, Sokobanja, Serbia, ISBN 978-86-6055-076-9, pp. 836-844.	M33
18	Kalaba, D., Đorđević, M., Ivanović, V., Determining the Theoretical Reliability Functions of the Thermal Power System in Power Plant "Pljevlja", <i>Proceedings of the 17<sup>th</sup> Symposium on Thermal Science and Eginneering of Serbia, SIMTERM 2015</i> , October 20-23, 2015, Sokobanja, Serbia, ISBN 978-86-6055-076-9, pp. 749-755.	M33
19	Kalaba, D., Đorđević, M., Kirin, S., Determining the Theoretical Failure Rate Function of the Thermal Power System in Power Plant "Nikola Tesla, Block B2", <i>Proceedings of the 7<sup>th</sup> International Scientific and Expert Conference TEAM 2015</i> , 14–16 October 2015, Belgrade, Serbia, ISBN 978 – 86 -7083 – 877 – 2, pp. 310-313	M33
20	Kalaba, D., Đorđević, M., Adamović, D., Determining the Theoretical Reliability Functions of Thermal Power System Using Complex Weibull Distribution, <i>Proceedings of International Conference POWER PLANTS 2014</i> , October 28 <sup>th</sup> -31 <sup>st</sup> , 2014, Zlatibor, Serbia, ISBN 978-86-7877-024-1.	M33
21	Mančić, M., Živković, D., Todorović, M., Đorđević, M., Experimental Evaluation of Evaporation Rates from Water Surface of an Indor Swimming Pool, <i>Proceedings of the IV International Conference Industrial Engineering and Environmental Protection (IIZS 2014)</i> , October 15 <sup>th</sup> , 2014, Zrenjanin, Serbia, ISBN: 978-86-7672-234-1, pp. 226-231.	M33
22	Đorđević, M., Bajmak, Š., Mančić, M., A Parametric Study on Correlations for Transport Parameters in Fixed Bed Regenerators, <i>Proceedings of the 16<sup>th</sup> Symposium on Thermal Science and Egineering of Serbia, SIMTERM 2013</i> , October 22-25, 2013, Sokobanja, Serbia, ISBN 978-86-6055-043-1, pp. 324-335.	M33
23	Đorđević, M., Pavlović, S., erformance Analyses of a Thermally Stratified Sensible Heat Storage in a Solar Powered Absorption Cooling System, <i>Proceedings of the 2<sup>nd</sup> International Conference Mechanical Engineering in XXI Century, MASING 2013</i> , June 20-21, 2013, Niš, Serbia, ISBN 978-86-6065-039-4, pp. 189-192.	M33
24	Bajmak, Š., Đorđević, M., Possibilities of Applying Heta Lower Temperature Levels for Heating by Using Two-Stage Heat Pump, <i>Proceedings of the 16<sup>th</sup> Symposium on Thermal Science and Egineering of Serbia, SIMTERM 2013</i> , October 22-25, 2013, Sokobanja, Serbia, ISBN 978-86-6055-043-1, pp. 437-443.	M33
25	Kalaba, D., Đorđević, M., Adamović, D., Determining the Theoretical Reliability Functions of the Thermal Power Systems in Power Plant "Nikola Tesla A", <i>Proceedings of the 16<sup>th</sup> Symposium on Thermal Science and Egineering of Serbia, SIMTERM 2013</i> ,	M33

	October 22-25, 2013, Sokobanja, Serbia, ISBN 978-86-6055-043-1, pp. 400-407.	
26	Pavlović, S., Stefanović, V., <b>Dorđević, M.</b> , Review of Software for Simulation and Optimization of Middle and High Temperature Solar Collectors, <i>Proceedings of the 2<sup>nd</sup> International Conference Mechanical Engineering in XXI Century, MASING 2013</i> , June 20-21, 2013, Niš, Serbia, ISBN 978-86-6065-039-4, pp. 183-188.	M33
27	Mančić, M., Živković, D., <b>Dorđević, M.</b> , Todorović, M., Pavlović, S., Comparison of Performances of Micro Hibrid Trigeneration System for Energy Demands of a Small Residential Building, <i>Proceedings of the III International Conference Industrial Engineering and Environmental Protection (IIZS 2013)</i> , October 30 <sup>th</sup> , 2013, Zrenjanin, Serbia, ISBN 978-86-7672-208-2, pp. 388-393.	M33
28	Mančić, M., <b>Dorđević, M.</b> , Petrović, E., Milisavljević, J., Turbulence Intensity in a Smooth Tube Measuring with Hot Wire Anemometer, <i>Proceedings of 29<sup>th</sup> Danubia-Adria Symposium on Advences in Experimental Mechanics</i> , September 26 <sup>th</sup> – 29 <sup>th</sup> , 2012, Belgrade, Serbia, ISBN 978-86-7083-762-1, pp. 210 – 213.	M33
29	Pejović, B., <b>Cvetković, S.</b> , Mićić, V., Prilog istraživanju funkcije hrapavosti kod elektrohemijiske obrade, <i>Druga konferencija ODRŽAVANJE 2012</i> , 13-16 juni Zenica, 2012, Bosna i Hercegovina, pp. 235-242, ISBN 1986 583X.	M33
30	Kalaba, D., <b>Dorđević, M.</b> , Radaković, Z., Kirin, S., Determining the Availability Function of the Thermal Power System in Power Plant "Nikola Tesla, Block A4", <i>Proceedings of International Conference POWER PLANTS 2012</i> , October 30 <sup>th</sup> – November 2 <sup>nd</sup> , 2012, Zlatibor, Serbia, ISBN 978-86-7877-021-0.	M33
31	Milisavljević, J., Petrović, E., Čirić, I., Mančić, M., Marković, D., <b>Dorđević, M.</b> , Tensile Testing for Different Types of Polymers, <i>Proceedings of 29<sup>th</sup> Danubia-Adria Symposium on Advences in Experimental Mechanics</i> , September 26 <sup>th</sup> – 29 <sup>th</sup> , 2012, Belgrade, Serbia, ISBN 978-86-7083-762-1, pp. 266 – 269.	M33
32	Stefanović, V., Pavlović, S., Stojanović, A., Mančić, M., <b>Dorđević, M.</b> , Experimental Determination and Review of Heat Performances of Three Flat Collectors and a CPC-2V Concentrating Collector with a Small Concentration Ratio, <i>Proceedings of 15<sup>th</sup> Symposium on Thermal Science and Engineering of Serbia, SIMTERM 2011</i> , October 18–21, 2011, Sokobanja, Serbia, ISBN 978-86-6055-018-9, pp. 529-541.	M33
33	Stefanović, V., Pavlović, S., Mančić, M., Stojanović, A., <b>Dorđević, M.</b> , Mathematical Model and Numerical Simulation of CPC-2V Concentrating Solar Collector, <i>Proceedings of 15<sup>th</sup> Symposium on Thermal Science and Engineering of Serbia, SIMTERM 2011</i> , October 18–21, 2011, Sokobanja, Serbia, ISBN 978-86-6055-018-9, pp. 219-232.	M33
34	Mančić, M., Živković, D., Stefanović, V., <b>Dorđević, M.</b> , Pavlović, S., Review of Software for Simulation and Optimization of Energy Systems, <i>Proceedings of 15<sup>th</sup> Symposium on Thermal Science and Engineering of Serbia, SIMTERM 2011</i> , October 18–21, 2011, Sokobanja, Serbia, ISBN 978-86-6055-018-9, pp.113-126.	M33
35	<b>Dorđević, M.</b> , Stefanović, V., Mančić, M., Pavlović, S., Solar Organic Rankine Cycles, <i>Proceedings of 15<sup>th</sup> Symposium on Thermal Science and Engineering of Serbia, SIMTERM 2011</i> , October 18–21, 2011, Sokobanja, Serbia, ISBN 978-86-6055-018-9, pp. 305-317.	M33
36	Cvetković, M., <b>Cvetković, M.</b> , Analysis of One Parameter Global Solar Radiation Models for Serbia, eNergetics 2015, <i>1st Virtual International Conference on Science, Technology and Management in Energy</i> , Serbia, Nis, 02-03 July, 2015, ISBN 978-86-80593-54-8, (84-88)	M33
37	Pejović, B., <b>Cvetković S.</b> , Pantelija, D., Aleksandar, T., About a Suitable Model of Kinematic Analysis of Comlex Machine, <i>11 Internacional Conference on Ctrical and Mehanical Accopplishments in Electrical and Mehanical Enginering and Information Tehnology DEMI 2013</i> , pp. 257-268, ISBN 99938-623-2-0.	M33
38	Senderská, K., Zajac, J., Mareš, A., <b>Cvetković, S.</b> , Innovation of Welding Workplace Exhaust System, <i>Scientific Journal Safety Engineering</i> , 2 (2012), pp. 85-88, ISSN 2217-7123, Publisher: University of Nis, Faculty of Occupational Safety, Serbia <a href="http://www.safety.ni.ac.rs">http://www.safety.ni.ac.rs</a>	M53
39	Cvetković, M., <b>Cvetković, S.</b> , System Analysis of Teh Transport of Stationary Communal Waste, <i>Communications in Dependability and Quality Management</i> , 15 (2012), pp. 35-41, ISSN 1450-7196.	M53
40	Pejović, B., <b>Cvetković, S.</b> , Todić, A., Ćirković, B., Pavlović, S., Prilog racionalnom projektovanju mašina alatki na primeru univerzalnog struga, <i>TEHNIKA -MAŠINSTVO</i> , 64 (2015), pp. 270-279, ISBN 0040-2176.	M53

<b>41</b>	Cvetković, M., Radovanović, M., Janković, P., <b>Cvetković</b> , S., Višekriterijumsko odlučivanje izbora maštine, <i>XL Simpozijum o operacionim istraživanjima</i> , Zlatibor 8-12 septembar 2013, ISBN: 978-86-7680-286-9, <a href="http://www.symopis2013.fon.bg.ac.rs/en/">http://www.symopis2013.fon.bg.ac.rs/en/</a>	<b>M33</b>
<b>42</b>	Bajmak, Š., <b>Đorđević</b> , M., Daljinsko hlađenje, analiza centralnih sistema i koeficijenta daljinskog hlađenja, <i>ENERGETIKA 2013</i> , Mart 2013, Zlatibor, Srbija, ISSN: 0354-8651, pp. 314-321.	<b>M63</b>
<b>43</b>	Kalaba, D., <b>Đorđević</b> , M. Prilog metodi određivanja teoretske funkcije pouzdanosti termoenergetskih sistema, <i>Majska konferencija o strategijskom menadžmentu</i> , Maj 25 - 27, 2012, Bor, Srbija, ISBN: 978-86-80987-96-5, str. 677 – 686.	<b>M63</b>