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## 1.1 Short biography

**Muzafer H. Saračević** (1984) is an associate professor of computer sciences at the University of Novi Pazar. He defended two bachelor theses: on Faculty of informatics and computing in Belgrade (*field of cryptography and data protection*) and on Faculty of information technology in Novi Pazar (*field of computer engineering*). He defended Msc. thesis on Faculty of Technical Sciences, University of Kragujevac (*educational technology in mathematics*) and 2013th year defend PhD. thesis on Faculty of Science and Mathematics, University of Niš (*field of computational geometry*).

He specialized on Oracle academy in the field of database and object-oriented programming. Also, he specialized in field of information security management system.

He is the author of over 120 professional and scientific articles, one scientific monograph, one textbook and two practicum. He is author of three accredited seminars by Institute for the Advancement of Education - Center for Professional Development in Education (Ministry of Education, Science and Technological Development, Serbia).

He is a member of the editorial board for five journals. He worked reviews for four international journals and three domestic journals. Reviewed by several works for five international conferences.

## 2.1 PhD, MSc and Bsc Thesis

- **PhD Thesis:** Faculty of Sciences and Mathematics, University of Niš, Serbia.  
*Title: Methods for solving the polygon triangulation problem and their implementation,*  
 Classification of thesis: Computer graphics; Computational geometry [68U05], COBISS.SR-ID 1024571113.  
 Supervisor: *Dr Predrag Stanimirović, full professor.*
- **MSc Thesis:** Faculty of Technical Sciences, University of Kragujevac, Serbia.  
*Title: The application of Java applets to create interactive contents for e-learning in mathematics,*  
 Classification of thesis: Mathematics Education; Educational technology [97U], COBISS.SR-ID 512368286.  
 Supervisor: *Dr Danijela Milošević, full professor.*
- **BSc Thesis:** Faculty of Informatics and Computing in Belgrade, Serbia.  
*Title: Application of Catalan numbers and some combinatorial problems in cryptography.*  
 Classification of thesis: Cryptology and Coding theory [94A60, 14G50].  
 Supervisor: *Dr Saša Adamović, associate professor.*

## 3.1 Scientific and Professional Papers (Summary)

Field classification in the papers:

- **[PWS]** : Programming, Web and Software engineering = **21 publications**
- **[CDS]** : Cryptography and Data Security = **9 publications**
- **[CGG]** : Computational Geometry and Graphics = **18 publications**
- **[EEL]** : Education and E-learning = **62 publications**
- **[AIM]** : Applied Informatics or Applied Mathematics = **22 publications**
- **Total number = 132 publications.**

### 3.2 Monograph, Practicum and Book Chapter

132. **Saračević Muzaffer** (2018), *Computational Geometry, Catalan Numbers and Cryptography (Scientific monograph)*, peer-review and recommendation of the International Committee of Informing Science Institute - California (USA), 310 pages, publisher: University of Novi Pazar, ISBN: 978-86-84389-52-9.
131. **Saračević M.** (2017), *Balkan Educational Research (International research book)*, Editor: prof. dr Hikmet Asutay, Author of Book Chapter: *WIRIS and Moodle Environment As Global Solution For Mathematics Education - Research About Positive Impact On Teaching And Learning*, publisher: Trakya University - Faculty of Education in Edirne, Turkey, ISBN: 978-975-374-213-9.
130. **Saračević M.** (2012), *Alati za interaktivnu nastavu matematike i e-učenje (praktikum)*, *Izdavački centar Univerziteta u Novom Pazaru*, ISBN: 978-86-84389-28-4.
129. **Saračević M.** (2011), *Objektno-orijentisano programiranje i modelovanje: JAVA i UML*, *publikacija Izdavačkog centra Univerziteta u Novom Pazaru*, ISBN: 978-86-84389-22-2.

### 3.3 Papers in International and Domestic Journals

128. [CGG] **Saračević M.**, Masovic S., Stanimirovic P., Krtolica P., (2018), Method for finding and storing optimal triangulations based on Square Matrix, *Applied Sciences - Geometry Balkan Press*, Vol.20, Indexed in SCOPUS (Elsevier), SJR IF: 0.26.
127. [PWS] **Saračević M.**, Aybeyan S., Mujevic M. (2018), Implementation Example of the Expert system for Decision Support on Android platform based on a specific Dataset, *Periodicals of Engineering and Natural Sciences*, ISSN: 2303-4521, Vol.6, No.1, Indexed in SCOPUS (Elsevier).
126. [CDS] **Saračević M.**, Koricanin E., Bisevac E. (2017), Encryption based on Ballot, Stack permutations and Balanced Parentheses using Catalan-keys, *Journal of Information Technology and Applications*, ISSN: 2232-9625, Vol.7, No.2, indexed in: EBSCO Publishing.
125. [CDS] **Saračević M.**, Hadzic M., Koricanin E. (2017), Generating Catalan-keys based on dynamic programming and their application in steganography, *International Journal of Industrial Engineering and Management (IJIEEM)*, ISSN: 2217-2661, Vol.8, No.4, pp. 219-227, Indexed in SCOPUS (Elsevier), SJR IF: 0.17, Q3.
124. [AIM] Milošević D., Pepić S., **Saračević M.**, Tasić M. (2016), Weighted Moore-Penrose generalized matrix inverse: MySQL vs. Cassandra database storage system, *Sadhana - Academy Proceedings in Engineering Sciences*, Vol. 41, Issue 8, pp. 837-846, ISSN: 0256-2499, publisher: SPRINGER and Indian Academy of Sciences, DOI :10.1007/s12046-016-0523-6. (*Thomson Reuters Science Citation Index: IF for 2016 = 0.465*).
123. [PWS] Sabanović M., **Saračević M.**, Azizović E. (2017), One software solution for data transfer between client and server with emphasis on saving memory and CPU usage, *International Journal of Industrial Engineering and Management (IJIEEM)*, ISSN: 2217-2661, Vol.8, No.1, pp. 1-8, Indexed in SCOPUS (Elsevier), SJR IF: 0.17, Q3.
122. [AIM] Rahmanović A., **Saračević M.**, Mujevic M., Sukic C. (2018), Possibilities of applying video surveillance and other ICT tools and services in the production process, *TEM Journal: Association for Information Communication Technology Education and Science*, Vol.7, No.1, ISSN:2217-8309, Published by: UIKTEN, indexed in Thomson Reuters Emerging Science Citation Index, Indexed in SCOPUS (Elsevier).
121. [AIM] Rahmanović A., **Saračević M.** (2017), The Significance of Using ICT in Telemetric Monitoring, Process Weighing and Control of the Coal, *Southeast European Journal of Soft Computing*, ISSN: 2223 -1859, Vol.6, No.1, pp. 40-43.
120. [CGG] Stanimirović P., Krtolica P., **Saračević M.**, Mašović S. (2014), Decomposition of Catalan Numbers and Convex Polygon Triangulations, *International Journal of Computer Mathematics*, ISSN: 0020-7160, Vol. 91, No. 6, pp. 1315–1328, DOI: 10.1080/00207160.2013.837894, publisher: Taylor and Francis - United Kingdom. (*Thomson Reuters Science Citation Index: IF for 2014 = 0.824*). Research project of the Serbian Ministry of Science [174033].
119. [PWS] Mašović S, **Saračević M.**, Stanimirović P. (2014), Alpha-Numeric notation for one Data Structure in Software Engineering, *Acta Polytechnica Hungarica: Journal of Applied Sciences*, ISSN: 1785–8860, Vol.11, No.1, pp.193-204, publisher: Obuda University, Hungarian Academy of Engineering and IEEE Hungary Section. (*Thomson Reuters Science Citation Index: IF for 2014 = 0.649*).
118. [CGG] **Saračević M.**, Stanimirović P., Krtolica P., Mašović S. (2014), Construction and Notation of Convex Polygon Triangulation based on ballot problem, *ROMJIST - Journal of Information Science and Technology*, Vol.17, No.3, ISSN: 1453–8245, pp. 237–251, publisher: IMT Bucharest - National Institute for Research and Development in Microtechnologies. (*Thomson Reuters Science Citation Index: IF for 2014 = 0.304*). Research project of the Serbian Ministry of Science [174013].

117. [EEL] Novalić F., Novalić M., **Saračević M.**, Azizović E. (2017), The Importance of E-learning for Doing Homework in Teaching Islamic Religious Instructions in Primary Schools, *Croatian journal of education*, ISSN: 1848-5189, Vol.19, No.1, pp. 267-303. (*Thomson Reuters Science Citation Index: IF for 2016 = 0.126*)
116. [CGG] **Saračević M.**, Aybeyan Selimi (2017), Application of the Computational Geometry in Linear Optimization, *VISION-International Refereed Scientific Journal*, accepted for Vol. 2, No.2.
115. [PWS] Sabanović M., **Saračević M.**, Azizović E. (2016), Comparative analysis of technologies for data transfer between the server and the client: AMF, JSON and XML, *Periodicals of Engineering and Natural Sciences*, ISSN: 2303-4521, Vol.4, No.2, DOI: 10.21533/pen.v4i2.57.g76.
114. [AIM] Rahmanović A., **Saračević M.** (2017), The feasibility and benefits of GPS telemetric monitoring in mining, *MEST Journal- Management, Education, Science and Society, Technology*, ISSN: 2334-7058 (Online), Vol.5, No.2, pp.117-124, Publishers: MESTE NGO Belgrade, Faculty of Business and Industrial Management of the "Union" University Serbia, SZ and Associates, Toronto, Canada.
113. [EEL] Selimi Aybeyan, **Saračević M.** (2017), Evaluation of Mathematical Exam in State Matura in the Republic Of Macedonia, *International peer-reviewed scientific journal of scientific research: Hikmet*, ISSN: ISSN: 1857-9663, No.30, pp.88-101.
112. [EEL] Selimi Aybeyan, **Saračević M.** (2017), The importance of riskless cash with the deterministic return in risk assessment of computer lab, *International peer-reviewed scientific journal of scientific research: Hikmet*, ISSN: ISSN: 1857-9663, No.29, pp.144-157.
111. [AIM] Plojovic S., Novalic F., **Saracevic M.**, Plojovic S. (2016), The possibility of implementation of decision support system in the process of maintenance of machinery, *FBIM Transactions: Journal for Finance, Business, Information, Industrial technologies and Management*, ISSN: 2334-704X, publisher: MESTE.
110. [EEL] Raicevic J, Nikolic S., Lipovac V., **Saracevic M.** (2017), Teachers and School Learning as a Factor of Modern Educational Competencies, *Bulgarian Journal of Science and Education Policy (BJSEP)*, ISSN: 1313-1958, Vol.11, No.2, pp.233-245.
109. [EEL] Azizovic E., Kacka M., **Saracevic M.**, Bihorac A. (2017), Social networks and students orthography, *Bulgarian Journal of Science and Education Policy (BJSEP)*, ISSN: 1313-1958, Vol.11, No.2, pp.370-383.
108. [AIM] Rahmanović A., **Saračević M.** (2016), Implementation of project GPS system in the function of telemetric monitoring and control in mining, *TEM Journal: Association for Information Communication Technology Education and Science*, Vol.5, No.4, pp. 475-479, ISSN:2217-8309, Published by: UIKTEN, indexed in Thomson Reuters Emerging Science Citation Index.
107. [AIM] Rahmanović A., **Saračević M.** (2016), Advantages of modern project management in the construction of ICT infrastructure, *CDQM Journal: Communications in Dependability and Quality Management*, ISSN: 1450-7196, Vol.19, No.3, pp. 18-24.
106. [CGG] Mašović S., **Saračević M.** (2014), Finding Optimal Triangulation based on Block Method, *Souteast European Journal of Soft Computing*, ISSN: 2223 -1859, Vol.3, No.2, pp. 14-18.
105. [PWS] Selimovic F., Loncarevic Z., **Saracevic M.** (2014), Improving university services using mobile web applications based on PHP/JSON-RPC technology, *Singidunum Journal of Applied Sciences*; 2014 Supplement (from SINTEZA), pp: 1015-1019, 5p, DOI: 10.15308/SInteZa-2014-1015-1019, ISSN:2217-8090, Indexed in EBSCO.
104. [CGG] **Saračević M.**, Stanimirović P., Mašović S. (2013), Object-oriented analysis and design for one algorithm of computational geometry: Forward, Reverse and Round-Trip Engineering, *Journal of Information Technology and Applications*, ISSN: 2232-9625, Vol.3, No.2, pp. 96-106, indexed in: EBSCO Publishing.
103. [CGG] **Saračević M.**, Mašović S., Milošević D., Kudumović M. (2013), Proposal for applying the optimal triangulation method in 3D medical image processing, *Balkan Journal of Health Science*, ISSN: 2303-4092, Vol.1, No.1, pp. 27-34.
102. [PWS] **Saračević M.**, Mašović S. (2013), Advantages of ACID compliance in application development in FIREBIRD databases, *Strategic Management - International Journal of Strategic Management and Decision Support Systems*, ISSN: 1821-3448, Vol.18, No.1, pp.53-61.
101. [CGG] **Saračević M.**, Stanimirović P., Mašović S. (2013), Implementation of some algorithms in computer graphics in Java, *Technics Technologies Education Management*, Vol. 8, No.1, pp. 293-300, publisher: DRUNPP Association - Society for development of teaching and business processes in new net environment in BIH, (*Thomson Reuters Science Citation Index: IF for 2012 = 0.414*).
100. [CGG] **Saračević M.**, Mašović S., Milošević D. (2013), Java implementation for triangulation of convex polygon based on Lukasiewicz's algorithm and binary trees, *Souteast European Journal of Soft Computing*, ISSN: 2223 -1859, Vol.2, No.2, pp. 40-45.

99. [PWS] Saračević M., Mašović S.(2013), Model implementacije sistema za e-plaćanje baziran na poslovnoj inteligenciji, *FBIM Transactions: Journal for Finance, Business, Information, Industrial technologies and Management*, ISSN: 2334-704X, Vol.1, No.2, str. 136-144, publisher: MESTE.
98. [EEL] Saračević M., Kozić M., Selimović F., Fetaji B. (2013), Improving university teaching using application for mobile devices based on NetBiscuit platform and integration with the LMS, *TEM Journal: Association for Information Communication Technology Education and Science*, ISSN:2217-8309, Published by: UIKTEN, Vol. 2, No.1, pp. 87-92, indexed in EBSCO Publishing.
97. [CGG] Stanimirović P., Krtolica P., Saračević M., Mašović S.(2012), Block method for Triangulation Convex Polygon, *ROMJIST - Journal of Information Science and Technology*, ISSN: 1453–8245, Vol.15, No.4, pp. 344-354, publisher: IMT Bucharest - National Institute for Research and Development in Microtechnologies, (*Thomson Reuters Science Citation Index: IF for 2012 = 0.283*).
96. [CGG] Saračević M., Stanimirović P., Mašović S., Biševac E. (2012), Implementation of the convex polygon triangulation algorithm, *Facta Universitatis, series: Mathematics and Informatics*, ISSN: 0352-9665, Vol. 27, No.2, pp.213-228, indexed in MathSciNet, Zentralblatt MATH.
95. [EEL] Saračević M., Milošević D., Mašović S. (2012), Inovacije i unapredjenje nastave matematike primenom JAVA apleta u sistemima za e-učenje, *Nastava i vaspitanje / Journal of Education*, ISSN:0547–3330, izdavač: Pedagoško društvo, Vol. 61, No. 4, str. 723-740.
94. [EEL] Saračević M., Milošević D., Mašović S. (2012), Uporedna analiza uspešnosti savladavanja gradiva na tradicionalan način i putem interneta, *Inovacije u nastavi - časopis za savremenu nastavu*, ISSN: 0352–2334, Vol.25, No.4, str.67-77.
93. [AIM] Saračević M., Mašović S., Plojović Š. (2012), UML modeling for traveling salesman problem based on genetic algorithms, *Southeast European Journal of Soft Computing*, ISSN: 2223 -1859, Vol.1, No 2, pp.72-79.
92. [AIM] Mašović S., Saračević M. (2012), Zastupljenost e-servisa u javnim upravama Srbije, *Info M - Journal of Information Technology and Multimedia Systems*, ISSN: 1451-4397, Vol.11, No. 41, pp. 21-25, Indexing in EBSCO Publishing.
91. [AIM] Stanimirović P., Tasic M., Saračević M., Mašović S. (2012), UML-Based Modeling for the Moore-Penrose inverse computation, *Revista Metal. International*, ISSN: 1582-2214, Vol. 17, No. 12, pp. 99–106, publisher: Editura Stiintifica F.M.R. (Serbian Ministry of Science [Project:144011]). (*Thomson Reuters SCIE: IF for 2012 = 0.134*).
90. [EEL] Saračević M., Mašović S., Šemsović M. (2012), Inovacije u visokom obrazovanju sa osvrtom na konkretan razvoj kursa prema ADDIE modelu za potrebe realizacije e-učenja na univerzitetu, *Socioeconomica – The Scientific Journal for Theory and Practice of Socioeconomic Development*, ISSN: 2217-7558, Vol. 1, No.2, pp. 267–280, indexing in Central and Eastern European Online Library, EBSCO Publishing...
89. [PWS] Mašović S., Saračević M., Kamberović H., Kudumović M., (2012), Java technology in the design and implementation of web applications, *Technics Technologies Education Management*, ISSN: 1840-1503, Vol.7, No.2, pp. 504–512, publisher: DRUNPP Association - Society for development of teaching and business processes in new net environment in BIH, (*Thomson Reuters SCIE: IF for 2012 = 0.414*).
88. [PWS] Saračević M., Mašović S., Kamberovic H. (2012), Application of JAVA and UML tools to better quality of some matrices computations, *CDQM Journal: Communications in Dependability and Quality Management*, ISSN: 1450–7196, Vol.15, No.3, pp. 21-31.
87. [CGG] Sukić Ć., Saračević M. (2012), UML and JAVA as effective tools for implementing algorithms in computer graphics, *TEM Journal: Association for Information Communication Technology Education and Science*, ISSN:2217-8309, Published by: UIKTEN, Vol. 1, No.2, 2012, pp.111-117.
86. [CDS] Saračević M., Hadzic M. (2017), Security management in Cyber space and protection mechanisms of web applications, *Pravne teme*, ISSN: 2334-8100, Godina 5, Broj 9.
85. [CDS] Saračević M., Resovic N. (2017), Bezbednost u internet okruenju i konkretni primeri napada, *Univerzitetska misao - časopis za nauku, kulturu i umjetnost*, ISSN: 1451-3870, Vol.16, indexing in Central and Eastern European Online Library, M53 kategorija po MPNTR.
84. [EEL] Korianin E., Saračević M., Luboder H., Camovic M. (2016), Konceptualni modeli i sistemi za personalno okruenje za učenje, *Univerzitetska misao - časopis za nauku, kulturu i umjetnost*, ISSN: 1451-3870, Vol.15, UDK: 37.015.3:004.438 (sa Medjunarodna naučno-strucna konferencija "Pedagoski razvoj individue u eri informacionih tehnologija", Novi Pazar, 25.04.2015).
83. [EEL] Luboder H., Korianin E., Saračević M., Kamberovic H. (2015), Tehnologije i alati za razvoj web i mobilnih aplikacija i njihova primena u nastavi, *Univerzitetska misao - časopis za nauku, kulturu i umjetnost*, ISSN: 1451-3870, Vol.14, UDK: 004.438; 371:004 (sa medjunarodne naučno-strucne konferencije "Pedagoski razvoj individue u eri informacionih tehnologija", Novi Pazar, 25.04.2015).

82. [CDS] Bisevac E., **Saračević M.**, Koricanin E., Delic M. (2016), Uvid u Darknet i njegov način funkcionisanja, *Pravne teme*, ISSN: 2334-8100, Godina 4, Broj 7, str. 267-274.
81. [AIM] Fetić S., **Saračević M.** (2016), Kako su informacione tehnologije uticale na profitabilnost medija, *Ekonomski izazovi*, ISSN: 2217-8821, Vol. 5, pp. 44-55, indexing in Central and Eastern European Online Library.
80. [CDS] **Saračević M.**, Korićanin E. (2016), Nasilje u internet okruženju i opasnost od krađe identiteta: Analiza stavova učenika o elektronskom nasilju i mogućim prevencijama, *Islamska misao*, ISSN: 1452-9580, Vol. 9, str. 181-191.
79. [CGG] Kamberović H., **Saračević M.**, Korićanin E. (2015), The standard for digital imaging and communications in medicine - DICOM, *University Journal of Information Technology and Economics* (ISSN: 2335-0628, Online), Vol. 2, No. 1., pp.1-4.
78. [PWS] Luboder H., Korićanin E., **Saračević M.** (2015), Advanced techniques for developing web and Android applications, *University Journal of Information Technology and Economics* (ISSN: 2335-0628, Online), Vol. 2, No. 1, pp. 24-30.
77. [EEL] Korićanin E., **Saračević M.**, Hasanović A. (2014), Nova era, novi izazovi: Primena MOOC-a za učenje stranih jezika, *Univerzitetska misao - časopis za nauku, kulturu i umjetnost*, ISSN: 1451-3870, Vol.13, No.3, pp. 298-306. (*Specijalno izdanje: radovi sa konferencije "Balkan cultural permeation through philological and sociological dimensions in the 20 and century"*).
76. [EEL] Mujovic A., **Saračević M.**, Koricanin E., Kamberovic H. (2014), Primena alata za kolaborativni rad sa dokumentima u nastavi i poslovanju, *Univerzitetska misao - časopis za nauku, kulturu i umjetnost*, ISSN: 1451-3870, vol.13, No.1, str. 114-132.
75. [EEL] **Saračević M.**, Korićanin E. (2014), Virtual learning environment and future of e-learning in enterprises, *University Journal of Information Technology and Economics* (ISSN: 2335-0628, Online), Vol. 1, No. 2, pp. 18-22.
74. [EEL] Korićanin E., **Saračević M.**, Biševac E., Kamberović H. (2014), Concept and Types of Virtual Environments: Research about positive impact on teaching and learning, *University Journal of Information Technology and Economics* (ISSN: 2335-0628, Online), Vol. 1, No. 1, pp. 51-57.
73. [AIM] **Saračević M.**, Elfić E., Plojović Š, Mašović S. (2013), Implementacija transportnog problema primenom metode meta-heurističkog pristupa, *Ekonomski izazovi*, ISSN: 2217-8821, No. 3, str. 39-48, indexing in Central and Eastern European Online Library.
72. [CGG] Selimović F., **Saračević M.** (2013), Jedan primer procesiranja slike primenom Database link tehnologije, *Univerzitetska misao - časopis za nauku, kulturu i umjetnost*, ISSN: 1451-3870, Vol.12, No.1, str. 51-58, indexing in Central and Eastern European Online Library.
71. [EEL] Milošević D., **Saračević M.**, Medjedović E., (2013), Softverski alati za elektronsko ocenjivanje i analiza njihove evaluacije u nastavi, *Časopis "Dositej"*, ISSN: 2303 - 5056, br.1, str. 13-20, izdavač: Lanaco Banja Luka.
70. [EEL] **Saračević M.**, Camović M., Korićanin E. (2013), Primena edukativnih računarskih igara i "Second Life" virtuelnog okruženja u nastavi, *Univerzitetska misao - časopis za nauku, kulturu i umjetnost*, ISSN: 1451-3870, Vol.12, No.3, pp. 51-58 (*Specijalno izdanje: radovi sa konferencije "LLC' 2013: Language, literature, culture - status and trends at the beginning of the 21st century"*), indexing in Central and Eastern European Online Library.
69. [EEL] **Saračević M.**, Plojović Š., Ujkanović E. (2012), Digitalni repozitorijumi u integraciji sa sistemima za upravljanje edukativnim sadržajima, *Ekonomski izazovi*, ISSN: 2217-8821, No. 1, str. 67-77, indexing in Central and Eastern European Online Library.
68. [PWS] Pepić S., **Saračević M.**, Jusović A. (2009), Funkcionalnost i implementacija informacionog sistema univerzitetske biblioteke, *Univerzitetska misao - časopis za nauku, kulturu i umjetnost*, ISSN: 1451-3870, vol. 8, str. 113-119, indexing in Central and Eastern European Online Library.
67. [CGG] **Saračević M.**, Mašović S. (2008), Analiza i testiranje nekih tehnika kodovanja JPEG standarda za kompresiju slike, *Univerzitetska misao - časopis za nauku, kulturu i umjetnost*, ISSN: 1451-3870, vol. 7, str. 65-74, indexing in Central and Eastern European Online Library.

### 3.4 Papers in Proceedings on International and Domestic Conferences

66. [CDS] **Saračević M.**, Selimi A. (2018), Security in the web environment and concrete examples of attacks on the internet, *ICEB' 18 - 4. International congress on economics and business*, Budapest/Hungary.
65. [EEL] Selimi A., **Saračević M.** (2017), Evaluation of mathematical exam in state matura in the republic of Macedonia, *Second Mediterranean international social congress (MECAS II)*, October 10-13, 2017 Metropol, Hotel Ohrid, Macedonia.

64. [EEL] Novalić F., Novalić M., **Saračević M.**, Hadzic M. (2016), Istraživanje potreba primjene LCMS tehnologija u nastavi Islamske vjeronauke / The research needs of the application LCMS technology in teaching Islamic religious instruction, *Međunarodna naučno-stručna konferencija - Inovacijama u budućnost*, ISBN: 978-86-84531-27-0, Fakultet za primjenjeni menadžment, ekonomiju i finansije, Beograd.
63. [EEL] Luboder H., Korićanin E., **Saračević M.** (2016), Prednosti primene MOOC tehnologija sa aspekta samobrazovanja i celoživotnog učenja / Advantages of applying MOOC technology from the aspect of self-education and lifelong learning, *Međunarodna naučno-stručna konferencija - Inovacijama u budućnost*, ISBN: 978-86-84531-27-0, Fakultet za primjenjeni menadžment, ekonomiju i finansije, Beograd.
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### 3.5 Articles in Newsletters journals

8. [EEL] Korićanin E., Saračević M. (2016), Kratak pregled virtuelnih muzeja, *Balkan Distance Education Network - BADEN Newsletter*, ISSN: 2334-9220 (Online), Issue 9, August 2016, Tempus Project: Enhancing the quality of distance learning at Western Balkan higher education institutions DL@Web, <http://www.badennet.org/>.
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4. [EEL] Hadžiahmetović A., Saračević M. (2014), Informaciono-komunikacione tehnologije i nastavnicke kompetencije, *Balkan Distance Education Network - BADEN Newsletter*, ISSN: 2334-9220 (Online), Issue 4, Mart 2014, Tempus Project: Enhancing the quality of distance learning at Western Balkan higher education institutions DL@Web, <http://www.badennet.org/>.
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### 3.6 Editor of articles in the international scientific journals

- Teimourpour B., Eslami V., Mohammadi M., Padidarfar M. (*Editor: Muzafer Saracevic*). A conceptual model for creation of a process-oriented knowledge map (POK-Map) and implementation in an electric power distribution company. *Interdisciplinary Journal of Information, Knowledge, and Management*, Vol. 11, pp.1-16, 2016. ISSN: 1555-1229 (publisher: Informing science institute Santa Rosa, California, USA). Retrieved from <http://www.ijikm.org/Volume11/IJIKMv11p001-016Teimourpour2092.pdf>
- Gatuha G., Jiang T. (*Editor: Muzafer Saracevic*). KenVACS: Improving vaccination of children through cellular network technology in developing countries. *Interdisciplinary Journal of Information, Knowledge, and Management*, Vol. 10, pp. 37-46, 2015. ISSN: 1555-1229 (publisher: Informing science institute Santa Rosa, California, USA). Retrieved from <http://www.ijikm.org/Volume10/IJIKMv10p037-046Gatuha1038.pdf>

## 3.7 Citations in Refereed Journal and Proceedings

### Only Hetero-citations:

International Journal of Engineering and Advanced Technology Studies (United Kingdom),  
 WIT Transactions on Information and Communication Technologies (United Kingdom),  
 IGI Global Press: In monograph "Methodologies and Case Studies for Successful Learning" (USA),  
 Emerging Markets Case Studies Collection (United Kingdom),  
 International Journal of Computer Science and Business Informatics (India),  
 International Journal of Computer Applications (Foundation of Computer Science, USA),  
 Science Journal of University of Zakho (Iraq),  
 Educacion Medica Superior (Cuba),  
 Publication on postgraduate studies at Escuela Tcnica Superior de Ingenieros Informticos (Spain),  
 International Journal of Advanced Research in Computer Science and Software Engineering (India),  
 IOP Series: Materials Science and Engineering (IOP publishing: UK/USA),  
 International Conference of Information Science and Management Engineering (China),  
 Nasional Pendidikan Teknik Informatik (Indonesia),  
 High Performance Computing and Communications (IEEE: France),  
 Intelligent Systems and Informatics (IEEE Hungary),  
 In monograph "Handbook of research on innovative technology integration in higher education" (USA),  
 Publication on postgraduate studies at the Islamic University of Gaza (Palestine),  
 Publication on postgraduate studies at the Zarqa University (Jordan),  
 Publication on postgraduate studies at the Addis Ababa University (Ethiopia),  
 IEEE proceedings, Computer Science and Information Technologies (Ukraine),  
 Journal of Basic and Applied Research International (International Knowledge Press - India)  
 Actual problems of education (Latvia),  
 Journal Tehniki vjesnik Technical Gazette (Croatia),  
 Balkan Journal of Health Science (BIH),  
 Electronic National University of Food Technologies Institutional Repository (Ukraine),  
 Bulgarian Journal of Science and Education Policy (Bulgaria),  
 Facta universitatis: Mathematics and Informatics (Serbia),  
 Industrija (Serbia),  
 Nauka i stvarnost (BIH),  
 FBIM Transactions (Serbia),  
 University journal of Information Technology and Economics (Serbia),  
 TEM Journal: Association for Information Communication Technology Education and Science (Serbia),  
 - *4th International Maritime Science Conference - IMSC 2012 (Croatia)*,  
 - *XIV International Science Conference "Sinergija 2013" (Bosnia and Herzegovina)*,  
 - *International M-sphere conference for multidisciplinary in business and science (Croatia)*,  
 - *International Scientific Conference - COMPUTER SCIENCE'2015 (Albania)*,  
 - *Sinteza 2014: Impact of Internet on Business activities in Serbia and Worldwide (Serbia) etc.*

## 4.1 Education and specializations

### 4.1.1 Doctoral studies

#### Faculty of Sciences and Mathematics, University of Nis (2013).

Acquired scientific title - *Doctor of Computer Science*, area: Computational geometry:

Thesis: *Methods for solving the polygon triangulation problem and their implementation*. Defended Board:

1. Dragan Stevanović, Ph.D.(president), Mathematical Institute SANU, Belgrade,
2. Predrag Stanimirović, Ph.D.(supervisor), Faculty of Sciences and Mathematics, University of Nis,
3. Danijela Milošević, Ph.D.(member), Faculty of Technical Sciences (Čačak), University of Kragujevac,
4. Milan Tasić, Ph.D.(member), Faculty of Sciences and Mathematics, University of Nis
5. Predrag Krtolica, Ph.D.(member), Faculty of Sciences and Mathematics, University of Nis.

### 4.1.2 Master studies

#### Faculty of Technical Sciences, University of Kragujevac.

*Master professor of techniques and informatics, average mark 10.00*, best student in generation.

Thesis: *The application of Java applets to create interactive contents for e-learning in mathematics*. Board:

1. Radojka Krneta, Ph.D.(president), Faculty of Technical Sciences (Čačak), University of Kragujevac,
2. Danijela Milošević, Ph.D.(supervisor), Faculty of Technical Sciences (Čačak), University of Kragujevac,
3. Dragana Bjekić, Ph.D.(member), Faculty of Technical Sciences (Čačak), University of Kragujevac.

### 4.1.3 Bachelor studies 2

#### Faculty of Informatics and Computing, Singidunum University in Belgrade.

*Graduate computer scientist* - Cryptology and Coding theory, **average mark 9.82**.

Thesis: *Application of Catalan numbers and some combinatorial problems in cryptography*. Defended Board:

1. Marko Sarac, Ph.D. (president), Faculty of Informatics and Computing, Singidunum University in Belgrade,
2. Saša Adamović, Ph.D. (supervisor), Faculty of Informatics and Computing, Singidunum University in Belgrade.

### 4.1.4 Bachelor studies 1

#### Faculty of Information Technologies, University of Novi Pazar.

*Graduate Engineer of Information Technology*, **average mark 9.88**, best student in generation.

Thesis: *Electronic Data Interchange*. Defended Board:

1. Velimir Sotirović, Ph.D. (president), Technical Faculty "Mihajlo Pupin" (Zrenjanin), University of Novi Sad,
2. Branislav Egić, Ph.D. (supervisor), Technical Faculty "Mihajlo Pupin" (Zrenjanin), University of Novi Sad,
3. Čamil Sukić, Ph.D. (member), Faculty of Informatics and Information Technologies, University of Novi Pazar.

### 4.1.5 Specializations and certifications::

- TMS Academy in Belgrade, partner TV SD Germany - "ISO/IEC 27001 Information Security Management System".
- Oracle Academy (one semester - 2014/15, 90 hours): *JAVA Programming - advanced level*, (Oracle Certified instructor, 07.02.2015., Metropolitan University in Belgrade).
- Oracle Academy (one semester - 2013/14, 90 hours): *JAVA Fundamentals - basic level*, (Oracle Certified instructor, 08.02.2014., Metropolitan University in Belgrade).
- Oracle Academy (one semester - 2012/13, 180 hours): *Database Programming with PL/SQL*, (Completed course and exam, 01.02.2013., Faculty of Technical Sciences, University of Kragujevac).
- Oracle Academy (one semester - 2011/12, 180 hours): *Database Design and Programming with SQL*, (Completed course and exam, 01.06.2012., Faculty of Technical Sciences, University of Kragujevac).
- Finished program for teacher competencies from psychological-pedagogical-methodical disciplines (*Faculty of Technical Sciences, approved by Senate of University of Kragujevac, No. III-01-153/10., 27.02.2014.*).
- Attended workshop "Cognitive development and its role in the advancement of education and scientific research methods in Islamic sciences", *ISESCO: Islamic Educational, Scientific and Cultural Organization*.

## 5.1 Pedagogical work and experience

### 5.1.1 University of Novi Pazar, Department of computer sciences

Teaching assistant: oct. 2007 / Assistant Professor: feb. 2014 / Associate Professor: feb. 2017 ... :

- Courses on Bachelor studies: *Data Structures and Algorithms, Introduction to programming (C++)*, *Object-oriented programming 1 (Python)*, *Object-oriented programming 2 (Java)*, *Databases*, *Software engineering*, *Encryption and encoding*, *Security in the web environment*.
- Courses on Master studies: *Selected topics from information systems*, *Cryptographic implementation in Java*.
- Courses on PhD studies: *Advanced course from object-oriented programming*, *Advanced course from computational geometry*.

### 5.1.2 University of Prizren, Faculty of computer sciences

Visiting professor: oct. 2014 - ..., Program: Telecommunications and Information Technology:

- Courses on Bachelor studies: *Programming, Algorithms and Data structures*, *Database*, *Authentication and Cryptography*, *Software Engineering*, *Cloud computing*.

### 5.1.3 Faculty of Islamic Studies, Novi Pazar

Visiting professor: oct. 2013 - ...:

- Courses on Bachelor studies: *Basics of Informatics*.

### 5.1.4 Other institutions (schools, centers, academies)

- Courses in primary school (oct. 2008 - sep. 2011): (1) *Mathematics*, (2) *Technical and IT education*..
- ZUOV - Institute for the Advancement of Education, Center for Professional Development in Education: (1) *Tools for creating interactive content in contemporary teaching*, (2) *Support developing and application of multimedia content in teaching of technics and IT*, (3) *Creation of electronic didactic materials for teaching mathematics*.
- Oracle Academy courses on Department of computer sciences, UNINP: (1) *Java fundamentals*, (2) *Java programming*.
- Clever Center, Novi Pazar: *Database and Design of Information Systems*, *Programming in Java and developing of graphics applications*, *General application of computer*.

### 5.1.5 Accredited seminars in education - authorship and realization

- "Tools for creating interactive content in contemporary teaching", *Institute for the Advancement of Education, Center for Professional Development in Education*, Serbia. Supported by "Regionalni centar Novi Pazar", implementation period: 2014/15, 2015/16, 2016/17 and 2017/18.
- "Creating of electronic didactic materials for teaching mathematics", *Institute for the Advancement of Education, Center for Professional Development in Education*, Serbia. Supported by "Regionalni centar Novi Pazar", implementation period: 2016/17 and 2017/18.
- "Support developing and application of multimedia content in teaching of IT education", *Institute for the Advancement of Education, Center for Professional Development in Education*, Serbia. Supported by "University of Novi Pazar", implementation period: 2014/15 and 2015/16.

### 5.1.6 Supervisor of Bsc, Msc and Phd Theses

- Bachelor thesis directed (29 students on University of Novi Pazar)
- Bachelor thesis directed (6 students on University of Prizren)
- Master thesis directed (7 students on University of Novi Pazar)
- PhD thesis directed (1 student on University of Novi Pazar)
  - Other:
    - Membership of the Committee for Defense for Bachelor thesis (17 students);
    - Membership of the Committee for Defense for Master thesis (4 students).
    - Membership of the Committee for PhD thesis (1 students).

## 6.1 Reviews and memberships in editorial board

### 6.1.1 Journals

- **International Journal of Software Engineering and Knowledge Engineering - IJSEKE** (*reviewer*), Print ISSN: 0218-1940, Online ISSN: 1793-6403, USA.
- **Interdisciplinary Journal of Information, Knowledge and Management** (*Editor and reviewer*), Online ISSN: 1555-1237 Print ISSN: 1555-1229, USA.
- **Southeast Europe Journal of Soft Computing**, (*Editor and Reviewer*), ISSN: 22331859.
- **Periodicals of Engineering and Natural Sciences (PEN)**, (*Editorial Board*), ISSN: 2303-4521.
- **Ekonomski izazovi - Economic challenges**, (*Editorial Board*), ISSN, 2217-8821. eISSN, 2560-4805.
- **Informing Science: The International Journal of an Emerging Transdiscipline** (*reviewer*), Online ISSN: 1521- 4672, Print ISSN: 1547-9684, USA.
- **BADEN Newsletter - Balkan Distance Education Network**, (*editorial board*), ISSN: 2334-9220 (Online), Tempus Project: Enhancing the quality of distance learning at Western Balkan higher education institutions DL@Web, <http://www.badennet.org/>
- **Univerzitetska Misao / University Thought: Journal of science, culture and art** (*Executive editor*), ISSN:1451-3870.
- **TEM Journal: Association for Information Communication Technology Education and Science**, (*Reviewer*), ISSN:2217-8309.

- **Journal of Information Technology Education: Research (JITE: Research)**(*reviewer*), Online ISSN: 1539-3585, Print ISSN: 1547-9714, USA.
- **Journal of Information Technology Education: Innovations in Practice (JITE:IIP)** (*reviewer*), Online ISSN: 2165-316X, Print ISSN: 2165-3151, USA.
- **FBIM Transactions** - Finance, Business, Information and Industrial technologies, Management (*Reviewer*), ISSN: 2334-704X (Online).
- **MEST Journal** - Management, Education, Science and Society, Technology (*Reviewer*), ISSN: 2334-7058 (Online).
- **International Journal of Doctoral Studies (IJDS)**(*reviewer*), Online ISSN: 1556-8873, Print ISSN: 1556-8881.
- **Interdisciplinary Journal of e-Skills and Lifelong Learning (IJELL)**(*reviewer*), Online ISSN: 2375-2092, Print ISSN: 2375-2084, USA.
- **UNITE Journal: University journal of Information Technology and Economics** (*Associate Editor*), ISSN:2335-0628.

### 6.1.2 Conferences

- **International Conference on Computational Techniques in Information and Communication Technology (ICCTICT-2016, IEEE Delhi section)**, New Delhi, India.
- **The Europe, Middle East and North Africa Conference on technology and security used to support learning (EURO-MENA TSSL2016, Springer)**, Faculty of Sciences Oujda, University Mohammed First Oujda Morocco.
- **WorldCIST'17 - 5th World Conference on Information Systems and Technologies**, Porto Santo Island, Madeira, Portugal. <http://www.worldcist.org/index.php/committees>
- **Informing Science Conferences** (*members of the International Board of Reviewers*):
  - Montreal, Canada (2012); InSITE: <http://www.informingscience.org/Conferences/InSITE2012/Overview>
  - Porto, Portugal (2013); InSITE: <http://www.informingscience.org/Conferences/InSITE2013/Overview>
  - Cape Town, South Africa (2014): Informing Science Institute and the e-Skills Conference 2014
  - Wollongong, NSW, Australia (2014); InSITE: <http://www.informingscience.org/Conferences/InSITE2014/Overview>
  - Tampa, Florida (2015); InSITE: <http://www.informingscience.org/Conferences/InSITE2015/Overview>
  - Vilnius, Lithuania (2016); InSITE: <http://www.informingscience.org/Conferences/InSITE2016/Overview>
- **ICTIC 2016 - Information and communication technology - The 5th International Conference**, Publishing Society, Slovakia. <http://www.ctic.sk/reviewers/>

### 6.1.3 Other participation in organizational committees:

- **Monograph of the University of Novi Pazar** (*member in editorial board in the process of creating of the publication, on the occasion of the 10th anniversary of the university, 2002-2012*) ISBN: 978-86-84389-32-1 <http://media.uninp.edu.rs/upload/ouniverzitetu/dan2012/monografija2012/index.html>

### 6.1.4 Chairman sessions

- *6th International Symposium: Technology, informatics and education for learning and knowledge society* (2011), organizer: University of Kragujevac - Faculty of Technical Sciences
- *5th International Social Sciences Conference in Balkans* (2013), organizers: Sakarya University - Turkey and University of Novi Pazar;
- *3th International Conference Methodical Aspects of Teaching Mathematics* (2014), organizer: University of Kragujevac - Faculty of education,
- *International Conference "Pedagogical development of the individual in the era of information technology"*, Novi Pazar, (25.04.2015), organizers: University of Novi Pazar;

*Muzafer Saračević, Ph.D.*