

CURRICULUM VITAE

General info

First name	Alen
Last name	Begović
Place of Birth	Zenica, Bosnia and Herzegovina
Date of Birth	3rd August 1972.
E-mail	alen.begovic@unze.ba



Education

2009-2013	University of Sarajevo, Faculty of Electrical Engineering, Ph.D. in Electrical Engineering (Telecommunications), thesis: "An analysis of impact of symmetrical copper-based twisted pair parameters on digital subscriber lines significant parameters", adviser: Narcis Behlilović
2003-2005	University of Sarajevo, Faculty of Electrical Engineering, postgraduate studies, M.S. in Electrical Engineering (Telecommunications), master thesis: "The quantum theory of coherence of optical signals", adviser: Kenan Suruliz
2003-2004	University of Zenica, Faculty of Pedagogical Sciences, additional pedagogical-psychological-didactical-methodical education
1996-2002	University of Sarajevo, Faculty of Electrical Engineering, undergraduate studies, B.S. in Electrical Engineering (Telecommunications), bachelor thesis: "The elements of quantum statistics of signals and noises", adviser: Kenan Suruliz

Summary of relevant work experience

08/2021-present	BH Telecom, J.S.C. Sarajevo, Directorate Zenica, specialist in access networks and customer premises equipment
02/2019-present	University of Zenica, Faculty of Mechanical Engineering, Chair of Automation and Metrology, field: electrical engineering, associate professor
11/2018-07/2021	BH Telecom, J.S.C. Sarajevo, Directorate Zenica, Telecommunication centre, head of the Department of access networks and customer premises equipment
01/2016-11/2018	BH Telecom, J.S.C. Sarajevo, Directorate Zenica, specialist in telecommunication systems
03/2014-12/2015	BH Telecom, J.S.C. Sarajevo, Directorate Zenica, Telecommunication centre, head of the Department of customer premises equipment
02/2014-01/2019	University of Zenica, Faculty of Mechanical Engineering, Chair of Automation and Metrology, field: electrical engineering, assistant professor
02/2009-06/2013	University of Zenica, Faculty of Mechanical Engineering, Chair of Automation and Metrology, field: electrical engineering, senior teaching assistant
07/2008-02/2014	BH Telecom, J.S.C. Sarajevo, Directorate Zenica, Telecommunication centre, head of the Department of customer premises equipment
10/2006-06/2008	BH Telecom, J.S.C. Sarajevo, Directorate Zenica, Telecommunication centre, Department of access networks, head of the Section of local access networks
12/2005-09/2006	BH Telecom, J.S.C. Sarajevo, Directorate Zenica, Telecommunication centre, Department of access networks, head of the Section of technical documentation
10/2005-11/2005	BH Telecom, J.S.C. Sarajevo, Directorate Zenica, Telecommunication centre, Department of access networks, system engineer of access networks
10/2004-09/2005	BH Telecom, J.S.C. Sarajevo, Directorate Zenica, Telecommunication centre, Department of access networks, senior associate for access networks
10/2003-09/2004	BH Telecom, P.E. Sarajevo, Directorate Zenica, Telecommunication centre, Department of access networks, Section of technical documentation, senior associate of technical documentation, electrical measurement and geo-information systems

10/2002-09/2003	BH Telecom, P.E. Sarajevo, Directorate Zenica, Department of investment, senior associate of investment planning and preparing (trainee)
-----------------	--

Some basic skills

Social skills and competences	Promoting the values of civil society, and the total equality of humanity; does not admitting the argument of force, on the contrary, acknowledging and promoting the force of the argument; totally raising no conflicts of persons, promoting dialogue and consultation.
Organisational skills and competences	Very systematic person, responsible for the work and tasks with a sense of self-motivation and co-workers motivation; tasks requested from my superiors executes in full and on time. Strongly demand and insist on responsible behaviour in any sense from subordinates; accepting argumentative and reasonable requests from my subordinates.
Technical skills and competences	Maintenance and repairing of electrical measurement equipment, computer hardware and software, telecommunication systems, in-house power systems, various home devices, etc. Maintenance and installing communications network elements, especially CPE (modems, routers, switches, ...)
Computer skills and competences	Common word processing software, spread sheet, presentation, database, drawing, C/C++ and assembly language programming, specialised applications for mathematical modelling of technical systems, simulation of electrical circuits, CAD applications, etc.
Driving licence	Driving licence, driving instructor licence and driving examiner licence of vehicle categories / subcategories A1, A, B1, B, C1, C, D1, D, BE, C1E, CE, D1E and DE.

Technical reviewer and/or TPC member on scientific journals/conferences

04/2022 - 05/2022	Reviewer on 64th International Symposium ELMAR 2022, Zadar, Croatia
04/2022 - 02/2022	Reviewer on 28th International Conference on Information, Communication and Automation Technologies (ICAT 2022), Sarajevo, Bosnia-Herzegovina
04/2021 - 05/2021	Reviewer on 63rd International Symposium ELMAR 2021, Zadar, Croatia
01/2021 - 03/2021	Reviewer on Promet - Traffic & Transportation ISSN: 1848-4069
04/2020 - 05/2020	Reviewer on 62nd International Symposium ELMAR 2020, Zadar, Croatia
04/2019 - 05/2019	Reviewer on 61st International Symposium ELMAR 2019, Zadar, Croatia
02/2019 - 03/2019	Reviewer on IEEE 10th GCC Conference & Exhibition (GCC 2019) , Hawalli, Kuwait
11/2018 - 01/2019	Reviewer on 8th International Conference on Modeling Simulation and Applied Optimization (ICMSAO 2019), Bahrain
05/2018 - 09/2018	Member of Technical program comitee on IEEE International Multidisciplinary Conference on Engineering Technology (IMCET 2018), Beirut, Lebanon
05/2018 - 08/2018	Reviewer on International Conference on Innovation and Intelligence for Informatics, Computing, and Technologies (3ICT 2018), Bahrain
05/2018 - 08/2018	Reviewer on International Symposium on Cloud Computing and Cyber-Security (SCCCS 2018), London, UK
04/2018 - 05/2018	Reviewer on 60th International Symposium ELMAR 2018, Zadar, Croatia
03/2017 - 05/2017	Reviewer on 59th International Symposium ELMAR 2017, Zadar, Croatia
12/2016 - 02/2017	Member of Technical program comitee on 9th IEEE GCC Conference and exsibition 2017, Manama, Bahrain
03/2016 - 09/2016	Reviewer on International journal of computing and digital systems (IJCDs), vol. 6, ISSN: 2210-142X
11/2015 - 12/2015	Reviewer on IEEE International Conference on Communications (ICC 2016), Communication theory (CT), Kuala Lumpur, Malaysia
02/2015 - 08/2015	Associate editor on International journal of computing and digital systems (IJCDs), vol. 4, ISSN: 2210-142X
04/2015 - 07/2015	Member of Technical program comitee on IEEE Region 8 EuroCon 2015 conference, Salamanca, Spain
01/2015 - 06/2015	Member of Technical program comitee on International symposium on web of things and big data (WoTBD 2015), Manama, Bahrain

01/2015 - 05/2015	Member of Technical program comitee on 2nd international Workshop on the design and performance of networks on chip (DPNoC 2015), Belfort, France
09/2014 - 06/2015	Reviewer on 4th International Conference on Advances in Computing, Communications and Informatics (ICACCI 2015), Kochi, India
09/2014 - 12/2014	Reviewer on IEEE International Conference on Signal Processing, Informatics, Communication and Energy Systems (SPICES 2015), Kozhikode, India
09/2014 - 12/2014	Member of the Technical program committee on International journal of signal processing and imaging engineering (IJSPIE), ISSN: 2356-590X
03/2014 - 06/2014	Member of the Technical program committee on IEEE symposium on wireless technology & applications (ISWTA 2014), Kuching, Malaysia
01/2014 - 05/2014	Member of the Technical program committee on International workshop on the design and performance of Networks on chip (DPNoC 2014), Toronto, ON, Canada
12/2013 - 03/2014	Reviewer on International Conference on Security of Information and Networks (ICSIN 2014), Hammamet, Tunisia
11/2013 - 01/2014	Reviewer on International Conference on Modeling, Analysis and Simulation of Computer and Telecommunications Systems (ICMASCTS 2014), Hammamet, Tunisia
10/2013 - present	Member of the Technical program committee (occasionally associate editor) on International journal of computing and digital systems (IJCDS), ISSN: 2210-142X
10/2013 - 12/2013	Member of the Technical program committee on 17th IEEE Mediterranean electrotechnical conference (MELECON 2013), Beirut, Lebanon
10/2013 - 12/2013	Reviewer on International conference on electrical, electronics and system engineering (ICEESE 2013), Kuala Lumpur, Malaysia
03/2013 - 06/2013	Reviewer on IEEE symposium on wireless technology & applications (ISWTA 2013), Kuching, Malaysia
02/2013 - 03/2013	Reviewer on International conference on signal processing & telecommunications (ICSPT 2013), Sousse, Tunisia
11/2012 - 02/2013	Reviewer on IEEE EUROCON 2013 conference, Zagreb, Croatia
09/2012 - 10/2012	Reviewer on IEEE student conference on research and development (SCOReD 2012), Penang, Malaysia

Activities and Membership in Professional Societies

2014 -	Member of IEEE - Information Theory Society
2013 - 2014	Member of IEEE - Communications Society

Projects and Studies

01/2022 - present	The use of a new QoS/QoE correlation mathematical model in the case of video distribution compressed in accordance with the latest video compression standards in conditions of occurrence of low and high intensity packet errors, funded by Government of Federation of Bosnia and Herzegovina, Ministry of Education and Science.
01/2021 - present	Member of team for IMS migration in BH Telecom
04/2019 - 06/2020	Supervisor over FTTH access network project design in Žepče downtown (Žepče)
09/2019 - 01/2022	Supervisor over FTTH access network project design in Zavidovići downtown (Zavidovići)
03/2019 - 03/2021	Supervisor over FTTH access network project design in Želeća (Žepče)
02/2018 - 02/2019	Technology and economic justification for the use of traditional infrastructure built on copper cable base for broadband access to modern telecommunication infrastructure designed to provide multimedia services, funded by Government of Federation of Bosnia and Herzegovina, Ministry of Education and Science.
11/2017 - 05/2018	Supervisor over FTTH access network project design in settlemet of Raspotočje (Zenica)
11/2017 - 05/2018	Supervisor over FTTH access network project design in Zenica downtown (Zenica)
11/2017 - 05/2018	Supervisor over FTTH access network project design in city block Travnička street (Zenica)

09/2014 - 04/2015	Project manager over FTTB access network project design in city blocks Bilino Polje i Čelični soliter (Zenica), Part Two
11/2014 - 12/2014	Member of team for revisioning of the QMS procedure for regular maintenance of customer permises equipent in BH Telecom
02/2014 - 03/2014	Member of team for revisioning of the QMS procedure for access network troubleshooting and faluts repairing in BH Telecom
12/2013 - 02/2014	Member of team for drafting of the work instruction for standard operating procedure in CPE troubleshooting in BH Telecom
11/2013 - 12/2013	Supervisor over burried access network "Mećevići-Zavidovići" reconstruction solution design
10/2013 - 11/2013	Supervisor over FTTB access network solution design in city block Luke (Visoko)
10/2013 - 11/2013	Supervisor over FTTB access network solution design in city block Lamele (Kakanj)
10/2013 - 11/2013	Supervisor over FTTB access network solution design in city block Rudi Čajavec (Kakanj)
10/2013 - 11/2013	Supervisor over FTTB access network solution design in city blocks Bilino Polje i Čelični soliter (Zenica), Part One
10/2013 - 11/2013	Supervisor over FTTB access network solution design in city block Kineski zid (Zenica)
09/2008 - 10/2009	Member of Team of GIS in BH Telecom's access networks project implementation
03/2008 - 09/2009	Project manager of duct-system underground access network "Crkvice-Zenica" construction
03/2007 - 12/2008	Project manager of duct-system underground access network "JOT-Zenica" construction
06/2007 - 12/2008	Member of team for BH Telecom technical data standardization
11/2006 - 05/2007	Supervisor over overhead access networks "Broda" and "Trgovište" Zenica remove
11/2006 - 02/2008	Supervisor over duct-system underground access network "Crkvice-Zenica" project design
06/2006 - 12/2006	Head supervisor of Directorate Zenica access networks maintenance
05/2006 - 02/2007	Project manager of buried underground Access Network "Bukva-Tešanj" construction
01/2006 - 06/2006	Member of team for creation of Access Network Maintenance Instruction Manual in BH Telecom J.S.C.
12/2005 - 01/2006	Supervisor over buried underground access network "Stojkovići-Vareš" reconstruction
12/2005 - 05/2006	Head supervisor of Directorate Zenica access networks maintenance
11/2005 - 02/2006	Supervisor over buried underground access network "Banjevac-Breza" reconstruction
10/2005 - 12/2006	Supervisor over overhead access network "Jalija-Visoko" remove
10/2005 - 12/2005	Supervisor over buried underground access networks "Jablanica-Maglaj", "Ulišnjak-Maglaj" and "Bočinja (Joševac)-Maglaj" reconsreuction
10/2005 - 11/2005	Supervisor over buried underground access network "Blatuša-Zenica" reconstruction
10/2005 - 08/2006	Project manager of buried underground access network "Tujnica-Maglaj" construction
07/2005 - 08/2006	Member of Team of duct-system underground access network "JOT-Zenica" project design
01/2005 - 08/2006	Member of team for implementation of Quality Management System in BH Telecom J.S.C., Directorate Zenica
11/2004 - 05/2005	Supervisor over buried underground access network "Varda-Kakanj" construction

Awards and recognitions

2013, May	Expectional outstanding paper award, for paper: "An impact of access network physical impairments on IPTV QoE in DSL environment, on 36th International Convention on Information and Communication Technology, Electronics and Microelectronics MIPRO, Opatija, Croatia, May 2013, pp. 380-383
-----------	---

Lectures on master courses

2022 -	Multimedia systems and applications, University of Zenica, Polytechnic faculty
2021 -	Automata theory and formal languages, University of Zenica, Polytechnic faculty
2020 -	Electronics components and circuits, University of Zenica, Faculty of Mechanical Engineering

2019 -	Software in measurement equipment, University of Zenica, Faculty of Mechanical Engineering
2019 -	Transmission of the information, University of Zenica, Faculty of Mechanical Engineering

Lectures on bachelor courses

2019 -	Telecommunications and data transmission , University of Zenica, Polytechnic faculty
2018 -	Fundamentals of electrical engineering and electronics, University of Zenica, Polytechnic faculty
2014 -	Fundamentals of electrical engineering (and electronics), University of Zenica, Faculty of Mechanical Engineering

Journal articles and conference papers

More recent and detailed publication list available on	https://scholar.google.com/citations?user=C2MzHlsAAAAJ https://www.scopus.com/authid/detail.uri?authorId=24437531900 https://www.researchgate.net/profile/Alen-Begovic-2
2022, September	On using LAN cables in FTTB/VDSL environment, in Proceedings of 64th International Symposium ELMAR, Zadar, Croatia, September 2022, pp. 41-44
2020, December	Comparing simulation model for objective QoE video evaluation with real IPTV test scenario during appearance of packet losses, in Telfor Journal (ISSN 1821-3251 , eISSN 2334-9905), vol. 12, No. 2, December 2020, pp. 86-91
2020, September	Adjacent Image Correlation for Video Quality Assessment, in Proceedings of 62nd International Symposium ELMAR, Zadar, Croatia, September 2020, pp. 45-48
2020, September	On using simple Android-based hand-held units for xDSL loop qualification/ troubleshooting, in Proceedings of 62nd International Symposium ELMAR, Zadar, Croatia, September 2020, pp. 29-32
2019, November	Comparing simulation model for objective QoE video evaluation with real IPTV test scenario during appearance of packet losses, in Proceedings of 27th Telecommunications Forum TELFOR, Belgrade, Serbia, November 2019, pp. 1-4
2019, September	Unsupervised Learning Model for Finding Correlations Between Network and Percieved QoS, in Proceedings of 61st International Symposium ELMAR, Zadar, Croatia, September 2019, pp. 85-88
2019, July	Block Code Optimal Parameters Determination: A Numerical Approach, in Proceedings of IEEE EUROCON, Novi Sad, Serbia, July 2019, pp. 1-5
2019, June	On Possibilities for Improvements of xDSL Troubleshooting Testing, in Proceedings of 25th International Conference on Systems, Signals and Image Processing IWSSIP, Osijek, Croatia, June 2019, pp. 1-4
2019, February	Application of artificial neural network for image noise level estimation in the SVD domain, in Electronics (Switzerland) (ISSN 2079-9292), vol. 8, No 2, Febraury 2019, pages 163.
2018, June	On ability of troubleshooting by observing some physical layer parameters of xDSL transceivers, in International Journal of Electronics and Telecommunications (ISSN: 2300-1933), vol. 63, No 3, June 2018, pp. 365-372
2017, September	On using various local loop types in recent VDSL applications, in Proceedings of 59th International Symposium ELMAR, Zadar, Croatia, September 2017, pp. 189-192
2017, July	Noise estimation using adaptive gaussian filtering and variable block size image segmentation, in Proceedings of IEEE EUROCON, Ohrid, Republic of Macedonia, July 2017, pp. 249-254
2017, May	On using of physical layer parameters of xDSL transceivers for troubleshooting, in Proceedings of 24th International Conference on Systems, Signals and Image Processing IWSSIP, Poznan, Poland, May 2017, pp. 1-4

2017, May	A block-based noise level estimation from X-ray images in SVD domain, in Proceedings of 24th International Conference on Systems, Signals and Image Processing IWSSIP, Poznan, Poland, May 2017, pp. 1-4
2016, October	A simple analysis of copper local loop faults in FTTB environment, in Proceedings of 11th International Symposium on Telecommunications, BIHTEL, Sarajevo, Bosnia-Herzegovina, October 2016, pp. 1-5
2016, September	An analytical model of copper local loop in FTTB environment, in Proceedings of 58th International Symposium ELMAR, Zadar, Croatia, September 2016, pp. 115-118
2016, May	DSL loop qualification by using noise margin, in Proceedings of 23rd International Conference on Systems, Signals and Image Processing IWSSIP, Bratislava, Slovakia, May 2016, pp. 1-4
2015, November	A simple model of copper local loop for use in current DSL applications, in Proceedings of 23rd Telecommunications Forum TELFOR, Belgrade, Serbia, November 2015, pp. 114-117
2015, September	A comparison between different physical layer parameters testing scenarios, in Proceedings of 57th International Symposium ELMAR, Zadar, Croatia, September 2015, pp. 121-124
2015, September	An efficient troubleshooting testing scenario for IPTV over DSL: Practical examples, in Proceedings of 22nd International Conference on Systems, Signals and Image Processing IWSSIP, London, United Kingdom, September 2015, pp. 233-236
2014, November	A possibility of using wideband noise for qualification and troubleshooting of digital subscriber lines, in Proceedings of 22nd Telecommunications Forum TELFOR, Belgrade, Serbia, November 2014, pp. 190-193
2014, October	A possibility of using longitudinal balance for qualification and troubleshooting of DSL lines, in Proceedings of 10th International Symposium on Telecommunications BIHTEL, Sarajevo, Bosnia-Herzegovina, October 2014, pp. 1-6
2014, September	A testing of IQX hypothesis: An example at data link layer in DSL environment, in Proceedings of 56th International Symposium ELMAR, Zadar, Croatia, September 2014, pp. 253-256
2014, September	An example of modeling local loop transfer function in DSL environment, in Proceedings of 56th International Symposium ELMAR, Zadar, Croatia, September 2014, pp. 247-252
2014, May	Real time assuring QoE in the lowest OSI/ISO layers during delivering of IPTV services, in Proceedings of 37th International Convention on Information and Communication Technology, Electronics and Microelectronics MIPRO, CTI – Telecommunications & Information, Opatija, Croatia, May 2014, pp. 532-535
2014, May	An efficient troubleshooting testing scenario for IPTV over DSL: Preliminary discussion, in Proceedings of 21st International Conference on Systems, Signals and Image Processing IWSSIP, Dubrovnik, Croatia, May 2014, pp. 139-142
2013, November	An example of improvement of access network triple-play ability by local loop shortening, in Proceedings of 21st Telecommunications Forum TELFOR, Belgrade, Serbia, November 2013, pp. 90-93
2013, September	An impact of resistive impairments in in-house cabling system on IPTV QoS, in Proceedings of 55th International Symposium ELMAR, Zadar, Croatia, September 2013, pp. 111-114
2013, September	Delivering of triple-play services through fully-loaded copper cable, in Proceedings of 55th International Symposium ELMAR, Zadar, Croatia, September 2013, pp. 107-110
2013, July	An investigation of usability of common crosstalk models in respect to DSL loop qualification, in Proceedings of IEEE EUROCON, Zagreb, Croatia, July 2013, pp. 660-667
2013, June	A methodology of modern copper access network design and redesign, in International Journal of Research in Wireless Systems, vol. 2, issue 2, June 2013, pp. 40-49

2013, May	An impact of access network physical impairments on IPTV QoE in DSL environment, in Proceedings of 36th International Convention on Information and Communication Technology, Electronics and Microelectronics MIPRO, CTI – Telecommunications & Information, Opatija, Croatia, May 2013, pp. 380-383
2013, May	A possibility of estimation of IPTV QoS parameters by using DSL transceivers physical layer parameters, in Proceedings of 36th International Convention on Information and Communication Technology, Electronics and Microelectronics MIPRO, CTI – Telecommunications & Information, Opatija, Croatia, May 2013, pp. 376-379
2013, February	An example of estimation of twisted pair channel capacity in DSL environment, in Proceedings of International Conference on Communications, Signal Processing and their Applications ICCSPA, Sharjah, United Arab Emirates, February 2013, pp. 1-5
2012, November	Analysis of impact of adjacent local loops on some significant DSL transceivers parameters, in Proceedings of 20th Telecommunications Forum TELFOR, Belgrade, Serbia, November 2012, pp. 284-287
2012, November	Simplified scenario of testing DSL lines delivering triple play services, in Proceedings of 20th Telecommunications Forum TELFOR, Belgrade, Serbia, November 2012, pp. 288-291
2012, September	Practical model of considering crosstalk problems of DSL signal transmission, in Proceedings of 54th International Symposium ELMAR, Zadar, Croatia, September 2012, pp. 149-152
2009, November	An overview of DSL local loop significant parameters measurement methods, in Proceedings of 17th Telecommunications Forum TELFOR, Belgrade, Serbia, November 2009, pp. 130-133
2009, September	An impact of adjacent ADSL signals on capacity of copper twisted pair channel, in Proceedings of 51st International Symposium ELMAR, Zadar, Croatia, September 2009, pp. 113-117
2009, September	Methods of locating galvanic faults in symmetrical copper pair cables in DSL systems, in Proceedings of 51st International Symposium ELMAR, Zadar, Croatia, September 2009, pp. 119-122
2008, November	An example of wideband services through twisted pair technology enhancement, in Proceedings of 16th Telecommunications Forum TELFOR, Belgrade, Serbia, November 2008, pp. 238-241
2008, November	An Impact of Active ADSL Signal on Twisted Pair Transmission Properties, in Proceedings of 16th Telecommunications Forum TELFOR, Belgrade, Serbia, November 2008, pp. 234-237
2008, October	An example of modelling of copper twisted pair near active ADSL service, in Proceedings of 7th International Symposium on Telecommunications BIHTEL, Sarajevo, Bosnia and Herzegovina, October 2008, pp. 39-44
2008, September	Possibility of multimedia services providing by ADSL system over long local loop, in Proceedings of 50th International Symposium ELMAR, Zadar, Croatia, September 2008, vol. 1, pp. 165-168
2008, May	Methods of some important ADSL signal parameters estimate, in Proceedings of 31st International Convention MIPRO, Opatija, Croatia, May 2008, vol 3, Telecommunications and Information (CTI), pp. 102-106.
2007, November	Investigation of short twisted pair insulation resistance impact on ADSL signal, in Proceedings of 15th Telecommunications Forum TELFOR, Belgrade, Serbia, November 2007, pp. 165-168.
2007, September	Research of Symmetrical Copper Based Twisted Pair near Active ADSL Service Parameters Properties, in Proceedings of 49th International Symposium ELMAR, Zadar, Croatia, September 2007, pp. 111-114

2007, May	Modern challenges in copper-based access networks design from the aspect of providing wideband services, in Proceedings of 30th Jubilee International Convention MIPRO, Opatija, Croatia, May 2007, vol. 3, Telecommunications and Information (CTI), pp. 182-186.
2006, November	Research of impact of location of transmission line fault on the quality of ADSL service, in Proceedings of 14th Telecommunications Forum TELFOR, Belgrade, Serbia, November 2006, pp. 127-130
2006, October	Models of design of access networks from aspect of offering new services, in Proceedings of 6th International Conference on Telecommunications BIHTEL, Sarajevo, Bosnia and Herzegovina, October 2006, pp. 201-204
2006, June	Analysis of effect of some parameters of symmetrical-copper-twisted-pair on quality of ADSL service, in Proceedings of 48th International Symposium ELMAR, Zadar, Croatia, June 2006, pp. 339-346
2005, October	Analysis of influence of adding redundant connections on reliability in telecommunication systems, in Proceedings of 20th International Symposium ICAT, Sarajevo, Bosnia and Herzegovina, October 2005, pp. 181-185

Books and textbooks

2020, May	Channel coding - algebraic block codes, book, ISBN: 978-9958-629-80-8
2015, December	Electrical engineerign with elements of electronics, book, ISBN: 978-9958-639-68-5