

АВТОБИОГРАФИЯ
на ZLATINKA SVETOSLAVOVA KOVACHEVA
(също BELEVA)

Име: Златинка Светославова Ковачева

Дата и място на раждане: 26 юли, 1958, София, България.

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Семейно положение: омъжена от 1987, с 1 син

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Образование:

1. Магистър (математика): Факултет по математика и информатика, Софийски университет, България, 1981, Специализация: "Основи на кибернетиката и теория на управлението"
2. Доктор: Технически университет, Катедра по електроника и изчислителна техника, София, България, 1987.

Основни Сертификати:

1. Workshop on Telecommunications, ICTP, Trieste, Italy, 1997
2. Oracle Курсове за Oracle Developer, Oracle Discoverer, Oracle Express, PL/SQL & Procedure Builder, София, България, 1998
3. Курсове по английски език, British Council, София, България, 2003, 2004, 2005

Езици: Английски (Ниво на владеење C2), Руски (Ниво на владеење C2), Италиански (Основно ниво A2)

Професионален опит: повече от 35 години международен опит – както в научно изследователски институти, така и във висши учебни заведения от 1981, от които 13 години в Султанат Оман

Позиции:

1. Математик и Научен сътрудник в Централния институт за изчислителна техника и технологии, София, България – 1981-1987.
2. Хоноруван Асистент в Центъра по приложна математика, Технически университет-София – 1984 – 1986, 1989 – 1991.
3. Научен сътрудник в Институт за информационни, комуникационни и автоматизирани системи, Българска телекомуникационна компания ЕАД – 1987-1996.
4. Специалист в Sprint Business Telecommunications Company – Joint venture между Българска телекомуникационна компания ЕАД и Sprint International Corporation of USA (1993).
5. Ръководител на секция в Център за информационни технологии в съобщенията, Българска телекомуникационна компания ЕАД – 1996-2002.
6. **Доцент във Висше училище по телекомуникации и пощи, София, България – 2003-2015**
7. Part time instructor at the DOMAS in Sultan Qaboos University, Muscat, Oman – 2005-2006.
8. Assistant professor at the Higher College of Technology, Muscat, Oman – 2006 – 2013
9. **Professor, Head of Department of Mathematics and Applied Sciences, Middle East College, Muscat Oman – 2013 – (continues up to the end of September 2018)**

Научноизследователски опит: повече от 35 години

Участие в повече от 30 научноизследователски проекта (Техният списък е представен. Ръководител на проекта на 10 от тях. 10 документи за тяхното внедряване в практиката и коментари относно тяхното прилагане са представени.

Основни научноизследователски интереси: математическо моделиране, теория на графите, дискретна математика, числени методи, автоматизирани системи за обработка на данни и управление, on-line analytical processing (OLAP) и др.

Настоящи теми за научни изследвания: невронни мрежи, големи данни, data mining.

Владеене на езици за програмиране: Assembly, FORTRAN, Algol, PL/1, Pascal, PL/SQL & Procedure Builder и др.

Използван научен софтуер: Oracle Developer, Oracle Discoverer, Oracle Express, Mathematical Statistics, MATLAB и др.

Преподавателски опит: повече от 15 години**Преподавани курсове:**

Foundation Mathematics Program – in one level and two levels (Basic Mathematics and Pure Mathematics), College Algebra, Precalculus, Calculus 1 and 2, Calculus for engineering, Discrete Mathematics, Engineering Mathematics, Numerical Methods, Information Systems in Communications, Information Technologies, etc.

Ръководител на 4 дипломни работи на бакалаври във Висшето училище по телекомуникации и пощи, София

Професионални дейности:

- Head of Department at the Middle East College, Muscat, Oman, May 2013 – September 2018;
- Ръководител на секция в Център за информационни технологии в съобщенията, Българска телекомуникационна компания ЕАД – 1996–2002.
- Член на Съюза на учените в България – от 1988 (продължава);
- Member of the College Board of the Middle East College, Muscat, Oman – since May 2013 (continues);
- Член на Научния съвет на Висшето училище по телекомуникации и пощи, София, България –2004 – 2014;

- Рецензент за научноизследователския фонд на Министерството на образованието и науката на Република България (през 2009 и 2010);
- Member of the Scientific Committee and session chair of the Fifth International Conference: "Dynamical Systems and Applications", Constanta, Romania, June 2009;
- Member of the Scientific Committee of the Sixth International Conference: "Dynamical Systems and Applications", July 10-14, 2010, Antalya, Turkey;
- Co-chair of the Track Data Warehouse of the 5-th Mediterranean Conference on Information Systems (MCIS), September 2010;
- Member of the Advisory Committee of the International Conference on Engineering and Information Technology (ICEIT 2012), September 2012, Toronto, Canada;
- Member of the Program Committee and session chair of the 2nd International Conference on Applied Information and Communications Technology- ICAICT 2014, Muscat, Oman, 28-29 April 2014;
- Member of the Technical Program Committee, session chair and panelist of The Seventh International Conference on Advanced Communications and Computation -INFOCOMP 2017, June 25 - 29, 2017- Venice, Italy
- Member of the Technical Program Committee of The Eight International Conference on Advanced Communications and Computation -INFOCOMP 2018, July 22 - 26, 2018- Barcelona, Spain
- Reviewer of Elsevier Neurocomputing Journal: ISSN: 0925-2312 (Сертификат е представен)

Участие в конференции, симпозиуми, работни срещи и т. н., както следва:

Международни конференции в различни страни:

- 1.42 Internationales Wissenschaftliches Kolloquium, Technische Universität , Ilmenau, Thüringen, Germany, 1997;
2. Workshop on Telecommunications, ICTP, Trieste, Italy, 1997
3. The Fifth National conference with international participation of the Society for Electronics, Telecommunications, Automation and Informatics -SETAI'2000, Ohrid, Macedonia, September 2000;
4. Conference on Differential Equations and Applications, Zilina, Slovakia, 2003.
5. 6-th International ISAAC Congress, Middle East Technical University, Ankara, Turkey, 13-18 August 2007.
6. Third International Conference on Mathematical Sciences, ICM March 2008, United Arab Emirates University, UAE, March 2008
7. Fifth International Conference: "Dynamical systems and Application", Constantza, Romania, June 2009 (member of the Scientific committee)

8. Sixth International Conference: "Dynamical Systems and Applications", Antalya, Turkey, July 10-14, 2010 (member of the Scientific committee)
9. International Conference on Differential & Difference Equations and Applications, Ponta Delgada, Portugal, July 2011
10. 2nd International Conference on Applied Information and Communications Technology" - ICAICT 2014, Muscat, Oman, 28-29 April 2014 (member of the Program committee).
11. International Conference on Fixed Point Theory and applications - ICFPTA, Istanbul, Turkey, 20-24 July 2015,
12. International Conference of Numerical Analysis and Applied Mathematics - ICNAAM, Rhodes, Greece, 19-25 September 2016.
13. The Seventh International Conference on Advanced Communications and Computation, INFOCOMP 2017, 25-29 June 2017, Venice, Italy
14. The Tenth International Conference on Nonlinear Analysis and Convex Analysis, NACA 2017, 4-9 July 2017, Chitose, Hokkaido, Japan
15. 6-th Abu Dhabi Annual International Conference Mathematical Science and it's applications, 19-21 December 2017, Abu Dhabi, UAE
16. International Joint Conference on Neural Networks, IEEE Congress, 8-13 July 2018, Rio de Janeiro, Brazil
17. The Eight International Conference on Advanced Communications and Computation -INFOCOMP 2018, July 22 - 26, 2018- Barcelona, Spain

Международни конференции в България:

1. Second International Conference on Artificial Intelligence AIMS 86, Varna, September 1986;
2. Fourth International Symposium "Methodology of Mathematical Modelling", Varna, 1988
3. International Conference on Computer Systems and Technologies CompSysTech, Sofia, 2002, 2003
4. International Conference Information Systems & GRID Technologies, Sofia, 2010, 2011, 2012

Национални конференции с международно участие в България:

1. National Conference on Personal Computers, 1985.
2. Symposium on Technical and Programming tools, International Fair of Plovdiv, 1986, 1987
3. Summer School "Applications of Mathematics in Engineering", Varna, 1988, 1992
4. National Conference TELECOM - Varna, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003
5. Summer School "Applications of Mathematics in Engineering", Sozopol, 1998, 1999.

Националните конференции, симпозиуми, работни срещи и т.н. - 5

Основни области на публикациите: математическо моделиране, невронни мрежи, обработка и управление на данни, извличане на данни, дискретна математика и др.

Цитирания на публикациите: 234 (до м. май 2018).

Рецензии на дипломни работи на бакалаври във Висшето училище по телекомуникации и пощи, София, България

Рецензии за 1 Международно списание и 7 Международни конференции

References:

PROF. HAYDAR AKCA: ABU DHABI UNIVERSITY

United Arab Emirates, Phone (Office) : 02 501 53 17, Email:

Haydar.Akca@adu.ac.ae , akcahy@yahoo.com

PROF. DR. KALINKA KALOYANOVA: UNIVERSITY OF SOFIA

Sofia, Bulgaria, Phone:+359 889488433, E-mail: kkaloyanova@fmi.uni-sofia.bg

DR. NAZIFE KOCA, SULTAN QABOOS UNIVERSITY, College of Science,

Muscat, Oman, Phone +968 92561070, E-mail: nazife@squ.edu.om

List of Publications (Total 70)

(Zlatinka Beleva was my name before marriage):

In English:

1. Georchev Ch., Z. Beleva, A formal language of digrams, its recognition and application in natural language analysing, Second International Conference on Artificial Intelligence AIMS 86, September 1986.
2. Covacheva Z., A reliability theoretic interpretation of axioms of monotonic pseudo - Boolean functions and application, XIII National Summer School with foreign participation "Applications of Mathematics in Engineering", Varna, 1992, 98-101.
3. Covacheva Zl., T. Cherneva, I. Nikolova, Modelling of the evolution of the usage of telecommunication services, Proceedings of the XXIV Summer School with foreign participation "Applications of Mathematics in Engineering"- Sozopol 1998, Heron Press, Sofia, 1999.
4. Covacheva Zl., K. Maslarova, T. Cherneva., I. Nikolova, Multidimensional data model for the firm management purposes, Proceedings of the XXV Summer School with foreign participation "Applications of Mathematics in Engineering"- Sozopol 1999, Heron Press, Sofia, 2000.
5. Mitov K., K. Maslarova, Z. Kovacheva, The Management Information System of BTC - PLC - concepts, implementation and development, Proceedings of the Fifth National conference with international participation of the Society for Electronics, Telecommunications, Automation and Informatics -SETAI'2000, Ohrid, Macedonia, 2000.
6. Covacheva Z., Multidimensional Data Model for Marketing Information System, International Conference on Computer Systems and Technologies - CompSysTech'2002, Sofia, 2002.
7. Covachev V, Z. Covacheva, H. Akca, E.A. Al-Zahrani, Almost periodic solutions of neutral impulsive systems with periodic time-dependent perturbed delays, Central European Journal of Mathematics, 1 (2003), 292-314.
8. V. Covachev, H. Akça, Z. Covacheva and E. Al-Zahrani, A discrete counterpart of a continuous-time additive Hopfield-type neural networks with impulses in an integral form, Studies of the University of Žilina Mathematical Series, 17 (2003), 11-18.
9. Kaloianova K., Z. Kovatcheva, I. Najdenova, An approach to Oracle Portal development, Journal "Electronics and Electrotechnics", Sofia, v. 10-12, 2003.
10. Covacheva Z., Data Warehouse architecture on the base of dimensional modelling, International Conference on Computer Systems and Technologies - CompSysTech'2003, Sofia, June 2003.

11. Haydar Akça, Rajai Alassar, Valéry Covachev and Zlatinka Kovacheva, Discrete counterparts of continuous-time additive Hopfield-type neural networks with impulses, *Dynamic Systems and Applications*, 13 (2004), 77-92.
12. Haydar Akça, Rajai Alassar, Valéry Covachev, Zlatinka Kovacheva and Eada Al-Zahrani, Continuous-time additive Hopfield-type neural networks with impulses, *Journal of Mathematical Analysis and Applications*, 290 (2004), 436-451.
13. Kovacheva Zl., Application of Neural Networks to Data Mining, *Sultan Qaboos University Journal for Science*, Muscat, Oman, Vol.12, Part 2, December 2007, pp. 121 - 141.
14. Covachev V., Zl. Kovacheva, H. Akça, S. Mohamad, Global exponential periodicity for discrete Hopfield neural networks with delays and impulses, in: *BGSIAM'07 Proceedings*, Demetra Ltd., Sofia, 2008, pp. C1-C4.
15. Akça H., V. Covachev, Zl. Kovacheva, Almost periodic solutions of impulsive Hopfield neural networks with periodic delays, *Proceedings of the Third International Conference on Mathematical Sciences*, ICM March 2008, United Arab Emirates University, UAE, March 2008, Volume 3, p. 1165 -1177.
16. Akça H., V. Covachev, Zl. Kovacheva, S. Mohamad, Global exponential periodicity for discrete-time Hopfield neural networks with finite distributed delays and impulses, in: *Further Progress in Analysis*, *Proceedings of the 6th International ISAAC Congress*, Ankara, Turkey, 13-18 August 2007, eds. H. G. Begehr, A. O. Çelebi & R. P. Gilbert, World Scientific, Singapore, 2009, pp. 635-644.
17. Akça H., V. Covachev, Z. Kovacheva, S. Mohamad, Global exponential periodicity for the discrete analogue of an impulsive Hopfield neural network with finite distributed delays, in: *Functional Differential Equations*, V. 16, 2009, No.1, pp. 53-72
18. Naydenova I., Zl. Kovacheva, K. Kaloyanova, A model of regular sparsity map representation, *An. St. University Ovidius Constanta*, Romania, Vol. 17 (3), 2009, 197-208
19. Sherimon P.C., R. Krishnan, Zl. Kovacheva , Language Compatibility Issues in Multi-Party Web Services, *Proceedings of the Fourth International Conference Information Systems & GRID Technologies*, 28 - 29 May 2010, Sofia, Bulgaria, ISBN 978-954-07-3168-1, St. Kliment Ohridski University Press, pp. 9-17
20. Akça H., V. Covachev, Zl. Kovacheva, Almost Periodic Solutions of Impulsive Hopfield Neural Networks with Periodic Delays, in: *Eighth International Conference on Mathematical Problems in Engineering, Aerospace and Sciences*, S. Sivasundaram (ed.), Cambridge Scientific Publishers, 2011, pp. 11-21.

21. Haydar Akça, Valéry Covachev, Zlatinka Covacheva, Impulsive Cohen-Grossberg neural networks with S-type distributed delays and reaction-diffusion terms, The 6th International Conference: 2010 - Dynamical Systems and Applications (Antalya, Turkey, 2010), International Journal of Mathematics and Computation, 10 (2011), No. M11, 1-12

22. Zlatinka Kovacheva, Application of Data Mining Techniques to the Students Advising and the Course Plan Construction, Proceedings of Fifth International Conference Information Systems & Grid Technologies, May 27 - 28 2011, Sofia, Bulgaria, pp. 9-20

<http://ci.fmi.uni-sofia.bg/isgt/images/ISGT11contents.pdf>

23. Haydar Akça, Valéry Covachev and Zlatinka Covacheva, Artificial neural networks and modeling: impulsive Hopfield neural networks with periodic delays, Pushpa Publishing House, 2011,

<http://www.pphmj.com/Images/ITO17.pdf>

24. Haydar Akça, Valéry Covachev and Zlatinka Covacheva, Impulsive Cohen-Grossberg neural networks with S-type distributed delays and discrete reaction-diffusion terms, in: Mathematical Problems in Engineering, Aerospace & Sciences 6, Recent Advances in Dynamics and Control of Neural Networks, E. Kaslik and S. Sivasundaram (eds.), Cambridge Scientific Publishers, 2012

25. Zlatinka Kovacheva, Tendencies in Data Warehouse Scope Development, Proceedings of Sixth International Conference Information Systems & Grid Technologies, June 2012, Sofia, Bulgaria, PP. 11-21,

http://ci.fmi.uni-sofia.bg/isgt/images/ISGT_2012_body.pdf

26. Haydar Akça, Valéry Covachev and Zlatinka Covacheva, *Discrete-time counterparts of impulsive Hopfield neural networks with leakage delays*, Differential and Difference Equations with Applications, S. Pinelas, M. Chipot and Z. Došla (eds.), Springer Proceedings in Mathematics & Statistics **47**, Springer Science+Business Media, New York, 2013, pp. 335-342.

27. Haydar Akça, Valéry Covachev and Zlatinka Covacheva, *Improved stability estimates for impulsive delay reaction-diffusion Cohen-Grossberg neural networks via Hardy-Poincaré inequality*, Tatra Mountains Mathematical Publications, **54** (2013), 1-18.

28. Haydar Akça, Valéry Covachev and Zlatinka Covacheva, *Global asymptotic stability of Cohen-Grossberg neural networks of neutral type*, A report at the International Mathematical Conference DIF-2013, Sevastopol, Ukraine, June 2013, Published in Nonlinear Oscillations, 17 (2014), No. 1, 3-15.

29. Zlatinka Kovacheva, Ina Naydenova, *Modeling of fact tables in Data Warehouse*, 2nd International Conference on Applied Information and Communications Technology" - ICAICT 2014, Muscat, Oman, 28-29 April 2014, Proceedings, published by ELSEVIER Publications, 2014, ISBN: 978-93-5107-285-0, 684-689.
30. H. Akça, V. Covachev and Z. Kovacheva, Global asymptotic stability of Cohen-Grossberg neural networks of neutral type, *Journal of Mathematical Sciences*, 2015 (2015), No. 6, 719-732.
31. Haydar Akça, Valéry Covachev and Zlatinka Kovacheva, *Second order semilinear impulsive differential equations with nonlocal conditions*, in: BGSIAM'14 Proceedings, Sofia, 2015, pp. 44-52.
32. Haydar Akça, Valéry Covachev and Zlatinka Kovacheva, *Existence of a mild solution to a second-order impulsive functional-differential equation with a nonlocal condition*, *Pliska Studia Mathematica*, 25 (2015), 101-110.
33. Zl. Kovacheva, I. Naydenova, K. Kaloyanova, Kr. Markov, *Big Data Mining: In-Database Oracle Data Mining over Hadoop*, The Sixth Symposium on Advanced Computation and Information in Natural and Applied Sciences, ICNAAM 2016, 19-25 September, 2016, Rhodes, Greece, published in the American Institute of Physics Conference Proceedings, Volume 1863: <http://aip.scitation.org/toc/apc/1863/1?expanded=1863>
<http://aip.scitation.org/doi/pdf/10.1063/1.4992195>
34. Haydar Akça, Eadah Al-Zahrani, Valéry Covachev and Zlatinka Kovacheva, *Existence of periodic solutions for the discrete-time counterpart of a neutral-type cellular neural network with time-varying delays and impulses*, Symposium on Difference & Differential Equations and Applications, ICNAAM 2016, 19-25 September, 2016, Rhodes, Greece, published in the American Institute of Physics Conference Proceedings, Volume 1863: <http://aip.scitation.org/toc/apc/1863/1?expanded=1863>
35. Haydar Akça, Eadah Al-Zahrani, Valéry Covachev and Zlatinka Kovacheva, *Existence theorem for a second-order impulsive functional-differential equation with a nonlocal condition*, *Journal of nonlinear and convex Analysis*, Volume 17, Volume 17, pp. 1129-1136.
36. Zl. Kovacheva, V. Covachev, *Mathematical Aspects of Application of Neural Networks to Processes with Delays*, The Seventh International Conference on Advanced Communications and Computation, INFOCOMP 2017, 25-29 June 2017, Venice, Italy, ISSN:2308-3484, ISBN:978-1-61208-567-8, pp. 24-28: http://www.thinkmind.org/index.php?view=article&articleid=infocomp_2017_3_20_60025

37. V. Covachev, Zl. Kovacheva, *Existence and global exponential stability of a peroidic solutions of a Hopfield-type network with distributed delays and impulses*, The Tenth International Conference on Nonlinear Analysis and Convex Analysis, NACA 2017,4-9 July 2017, Chitose, Hokkaido, Japan.

38. Zl. Kovacheva, *Challenges and opportunities in analytics of Big Data*, 6-th Abu Dhabi Annual International Conference Mathematical Science and it's applications, 19-21 December 2017, Abu Dhabi.

39. Kaloyanova K., Tz. Hristov, I. Naydenova, Zl. Kovacheva, *Management Technologies for Big Data: A case of Oracle*, 2-nd International Conference on Advanced Wireless Information, Data and Communication Technologies (AWICT 2017), 13-14 November 2017, Paris, France

40. Akca H., E. Zahrani, V. Covachev, Zl. Kovacheva, *Existence of Periodic Solutions for the Discrete-Time Counterpart of a Neural-Type Cellular Newral Network with Time-Varying Delays and Impulses*, International Journal of Applied Mathematics and Statistics, Vol. 57, Issue No.1, Year 2018, published by Centre for Environment & Socio-Economic Research Publications (India), ISSN 0973-1377 (Print), ISSN 0973-7545 (Online), pp. 145-153.

41. Zl. Kovacheva, *Challenges and Opportunities in Analytics of Big Data*, 6th Abu Dhabi University Annual International Conference: Mathematical Sciences and It's Applications, December 19-21, 2017, Abu Dhabi, UAE, accepted to be published in International Journal of Engineering and Future Technology, Vol. 16 #2 # 2019

42. Covachev V., Zl. Kovacheva, *Existence of Periodic Solutions for the Discrete-Time Counterpart of a Complex-Valued Hopfield Neural Network with Time-Varying Delays and Impulses*, International Joint Conference on Neural Networks, IEEE Congress, 8-13 July 2018, Rio de Janeiro, Brazil

43. Covachev V., Zl. Kovacheva, *Global Exponential Stability of the Periodic Solution of a Discrete-Time Complex-Valued Hopfield Neural Network with Delays and Impulses*, The Eight International Conference on Advanced Communications and Computation -INFOCOMP 2018, July 22 - 26, 2018- Barcelona, Spain

In German:

1. Kademova - Katzarova P., M. Strougarova, V. Tenev, Z. Kovacheva, L. Simeonova, Introduction of ATM Technology in Bulgaria, 42-stes Internationales Wissenschaftliches Kolloquium, Technische Universität, Ilmenau, Thüringen, Germany, 1997, 455-460.

In Russian:

1. Kovacheva Zl., Mathematical model of the bigrams in a natural language, Fourth International Symposium "Methodology of the Mathematical Modelling", Varna, 1988, page 114.

In Bulgarian:

1. Georchev Ch., Zl. Beleva, K. Kaloyanova, Methods for text analysis according to the peculiarities of the Bulgarian language in the contemporary textprocessing systems for personal computers, First National Conference with international participation on personal computers, PERSCOMP'85, March, 1985, 101-107.

2. Beleva Zl., Automatic spelling errors detection in Bulgarian language texts using dictionary, Republicial Youth Scientific Technical Symposium "Mathematics and mechanics and their application in the science and practice", June 1985, 167-173.

3. Georchev Ch., K. Kaloyanova, Zl. Beleva, Automatic spelling errors detection in natural language texts, Proceedings of CICTT, 1986.

4. Beleva Zl., K K. Kaloyanova, L. Ganchev, Some theoretical principles of a program for automatic analysis of the bulgarian language spelling, Republicial Youth Scientific Technical Symposium "Computer technique, technologies and application", October 1985.

5. Beleva Zl., Ch. Georchev, L. Ganchev, K. Kaloyanova, A system for automatic detection and correction of spelling errors in Bulgarian language texts, Symposium with international participation "Technical and program tools for mainframes and microcomputers", International Autumn Technical Fair, Plovdiv, October, 1986.

6. Georchev Ch., P. Cherneva, T. Hodonovska, Zl. Beleva, Universal multifunctional textprocessing system on the base of ES 1832, Seminar "Program products of "Information and Communication Systems"", Sofia, May, 1987.

7. Beleva Zl., Ch. Georchev, L. Ganchev, K. Kaloyanova, An automatic system for detection and correction of spelling errors in Bulgarian language texts, Seminar "Program products of INCOMS", Sofia, May, 1987.

8. Georchev Ch., Zl. Kovacheva, M. Popov, Systems for textprocessing for personal computers, Symposium with international participation "Technical and program tools for mainframes and microcomputers", International autumn technical fair, Plovdiv, October, 1987.

9. Kovacheva Zl., Automatic detection and correction of punctuation errors in Bulgarian language texts, XIV National Summer School with foreign participation "Applications of Mathematics in Engineering", Varna, 1988, 286-289.

10. Kovacheva Zl., T. Cherneva, A survey of the customers demand of the services of the digital exchanges in Sofia and Varna, National Conference with international participation TELECOM'96, Varna, 1996, 175-179.

11. Kovacheva Zl., T. Cherneva, I. Nikolova, A survey of the usage of telecommunication services during the creation of a Marketing

information system, National Conference with international participation TELECOM'97, Varna, 1997, 437-441.

12. Cherneva T., Zl. Kovacheva, I. Nikolova, Some aspects of a survey and estimation of the labour activity according to the dependence of the available technique, National Conference with international participation TELECOM'98, Varna, 1998, 263-269.

13. Kovacheva Zl., T. Cherneva, I. Nikolova, Marketing information system for the usage of the main services of BTC, National Conference with international participation TELECOM'98, Varna, 1998, 270-274.

14. Cherneva T., Zl. Kovacheva, I. Nikolova, Forecasting of the development and usage of the main telecommunication services, National Conference with international participation TELECOM'99, Varna, 1999, 610-613.

15. Kovacheva Zl., T. Cherneva, Basic aspects of the Marketing information data base creation for the big business customers of BTC PLC, National Conference with international participation TELECOM'2000, Varna, 2000, 59-63.

16. Kovacheva Zl., I. Najdenova, T. Cherneva, OLAP tools usage for the multidimensional segmentation of the telecommunication services market, National Conference with international participation TELECOM'2001, Varna, 2001, 287-292.

17. Kovacheva Zl., I. Najdenova, Basic aspects of the process of creation of the Management information system of BTC PLC, Jubilee scientific conference "Challenges to the organizations management in XXI century: Analyses, problems and prospects", National and World Economy University, Sozopol, September 2002, 202-208.

18. Kovacheva Zl., I. Najdenova, Development of the tools for multiuser access to the objects of the multidimensional data base of the IS "Marketing", National Conference with international participation TELECOM'2002, Varna, 2002, 223-228.

19. Kovacheva Zl., I. Najdenova, K. Kaloyanova, Data Mining - essence and basic problems of the data analysis methods and tools development, Automation and Informatics, Sofia, No. 7, 2002, 3-10.

20. Kovacheva Zl., Basic problems and stages in the Data Warehouse development for the purposes of the firm management, First scientific conference "Contemporal approaches to the economical structures management", Bourgas Free University, February 2003.

21. Kovacheva Zl., OLAP technology application to an analytical data maintenance in the management information systems, "Management and stable development. Society, man and nature", University of Forestry, 1-2, 2003, year 5, vol.8, 122-124.

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