LIST OF RESEARCH AND ACADEMIC PUBLICATIONS OF Dr. ZAHAROV VIKTOR VASILEVICH

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Scientific papers

1. Zaharov V.V., Fausto Casco S., *Discrete Wavelet Transform Application To Rayleigh Fading Channel Estimation In Radio Communications*, Journal of Russian Academy of Science "Radioelectronics ", (Russian section of IEEE), #10, 2002, 15 pages, (in English), http://jre.cplire.ru/jre/oct02/1/text_e.html **,** ISSN 1684 -1719

2. Casco F., Amín O., Zaharov V. and Ekzhanov A., *A CNLMS Adaptive Filter Algorithm*, Journal of Russian Academy of Science "Radioelectronics ", (Russian section of IEEE), #10, 2002, 6 pages, (in English), http://jre.cplire.ru/jre/oct02/3/text_e.html

3. Zaharov V.V., Fausto Casco S., *Discrete fast Wavelet transform Algorithm and its Application to prediction problem*, Academic Open Internet Journal, #8,2002, p.1-10, (in English), http://www.acadjournal.com. ISSN 1311-4360.

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5. Zaharov V.V., Casco F.S., Gutierrez M.A., *Smart antenna application for satellite communication systems with space division multiple access*, Journal of Russian Academy of Science "Radioelectronics ", (Russian section of IEEE), #2, 2001, 13 pages, (in English), http://jre.cplire.ru/jre/feb01/1/text.html , ISSN 1684 -1719

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9. Zaharov V.V., Casco F.S, Amin O.A., *Smart antenna base station beamformer for mobile communications*, Journal of Russian Academy of Science "Radioelectronics ", (Russian section of IEEE), #11, 2000 , 14 pages, (in English), http://jre.cplire.ru/jre/nov00/3/text.html, ISSN 1684 –1719.

10. Zaharov V.V., Casco F.S, Amin O.A., Gutierrez M.A, *Pipelined adaptive high rate filter with vector operations*, Proceedings of Odessa State Academy of Refrigeration Engineering, Section of Control and Automation, v.68, 2000, p.67-70, (in English), ISSN 0453-8307.

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12. Zaharov V.V., *Estimation of the evolution spectral characteristicsof the time series using the Kalman filter*, Journal of Russian Academy of Science "Autometria, ISSN: 0320-7102", (English version translated by Allerton Press., Inc.,NY "Optoelectronics, Instrumentation and Data Processing", ISSN 8756-6990), #1,2000, p.94-98. http://www.iae.nsk.su/oidp/frames.html

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1. Zaharov V.V., Cásco F.S., Lopez M.V., *Fading Channel Estimation In Mobile Radio Communications with Wavelet Packet Transform*, Second International Workshop on Random Fields Modeling and Processing in Inhomogeneous media (RFMPIM2002), Guanajuato, Mexico, Nov.27-29, 2002, p.100-103.

2. Zaharov V.V., Cásco F.S., Gutiérrez M.A., *Fast Wavelet Transform Application To Prediction Problem*, Proceedings of the XXIII International Congress of Electronic Engineering (Electro2002), Chihuahua, Mexico, Oct.21-25,2002, p.429-433.

3. Zaharov V.V., Casco F.S., Amin O.A.., Villaseñor M.L. *Smart Antenna Technique For Wireless Communications*, Proceedings of the international IEEE conference "Microwave and Telecommunication Technology (CriMiCo'2001)", Sevastopol, Crimea,Ukraine, September 10-14, 2001, p.318-320, ISBN 966-7968-00-6, http://ieee.orbita.ru/aps/crim01e.htm

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5. Zaharov V.V., *Modulated signals*, on the course "Signal Processing" for the graduate students of Applied Mathematics & Computer Science and Electrical Engineering Department (in English), Odessa Polytechnic State University, 1999, Odessa, 32p.

6. Zaharov V.V., *Random variables*,on the course "Theory of probability and mathematical statistics" for the undergraduate students of Applied Mathematics & Computer Science Department, Odessa Polytechnic State University, 1999, Odessa, 35p.

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9. Zaharov V.V., *Spectral analysis of economic information*, on the course "Mathematical methods of information processing" for graduate students of Applied Mathematics and Computer Science Department, Odessa Polytechnic State University, 1996, Odessa, 34p.