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- Doctor of Economics, Professor of Statistics
- Honored Scientist of the Russian Federation
- Honored Professor of Tashkent State Economic University (Republic Uzbekistan)
- Guest Lecture of Alliance University (Bangalore, India),
<https://www.alliance.edu.in/faculties/category/international-faculty/dr-elena-zarova.php>
- International Statistical Institute (ISI) elected member, Council member, 2019-2023
- Head of Central Euro-Asian Outreach Committee of ISI, 2013-2021
- Member of the Scientific and Methodological Council of Russian Federal Statistical Service
- Member of the editorial board - IAOS Journal, Journal 'Voprosyi Statistiki' ("Вопросы статистики"). Rosstat

More than 150 articles, 16 monographs and study books.

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Key topics\areas of study

data mining methodology with R, analytical data visualization, multivariate statistical analysis, methods for economic security analysis, business cycle modeling, spatial time series analysis and modeling, statistics of new forms of employment

Significant publications

Handbook on Forms of Employment. Multi party-work relationship.UN,UNECE,2023.
https://unece.org/sites/default/files/2022-08/2210309E_ECE_CES_STAT_2022_4_WEB.pdf

Zarova E.V. Tursunov B.O. Methods for analyzing economic security. Moscow. INFRA-M. 2023.

Data Mining Methodology in Statistical Analysis (with R). Elena Zarova. - Moscow: INFRA-M, 2021.(Russian) <https://znanium.ru/catalog/document?id=376512>

Machine Learning Methods for Processing and Analyzing Integrated Datasets of Official Statistics. <https://www.isi-web.org/sites/default/files/import/pdf/169-day4-ips244-machine-learning-methods-for-p.pdf>

Application of data mining methods in official statistics. Materials of international scientific-practical conference “DATA SCIENCE”, February 5-7, 2020, Federal State budget educational institution of higher education “St. Petersburg State Economic University”, Federal State Statistics Service office in St. Petersburg and Leningradskaya oblast (Petrostat), Russian Association of Statisticians, Institute of Sociology - Branch of the Federal Center of Theoretical and Applied Sociology of the Russian Academy of Sciences, St. Petersburg, 2020, p.14

Combination of statistical matching and bicluster analysis in data mining procedures in Russian official statistics. Use of R in official statistics, UROS, 2-4 December 2020

About the new tasks of International Statistical Institute: on the materials of ISI Council web conference, Voprosy Statistiki, 2020, № 27(3), pp.94-96

Studying the efficiency of the use of industrial capacity at the enterprises of Uzbekistan textile industry on the basis of multivariate statistical analysis methods. Scientific-analytical journal “Science and practice of Plekhanov Russian University of Economics”, editorial house of Plekhanov Russian University of Economics (Moscow) ISSN: 2225-9538, 2019, pp.25-35

Regionalization of industrial production value added based on production functions (co-authored), Voprosy Statistiki, № 4. 2019, p. 45-58

Statistical methodology for evaluating business cycles in the conditions of their synchronization and harmonization. Statistics – Growing Data Sets and Growing Demand for Statistics, IntechOpen, 2018, pp. 27-48 <https://www.intechopen.com/chapters/60864>

Innovations in statistics of labour relations (on the materials of the 20th International conference of Labour Statisticians)., Voprosy Statistiki, № 12, 2018, p.1-9

Statistical assessment of the dynamics of the average monthly income from labor activity as a target indicator of the strategies for the socio-economic development of the Russian Federation regions. Bulletin of the Department of Statistics “Statistical studies of the socio-economic development of Russia and the prospects for sustainable growth”, Issue 2, Plekhanov Russian University of Economics, Statistics Department, 2018, pp. 99-103

Methods for assessing the achievement of target parameters of labor productivity growth. Monograph. Moscow, Infra-M, 2017 (8,13 pp, co-authored)

Substantiation of changes in the methodology for calculating the average monthly wage of employees (co-authored) - Voprosy Statistiki, No. 6, 2017, p. 3-8

Statistical resources and methods for forecasting the indicator of employees’ wages. Voprosy Statistiki, No. 12, 2016, pp. 19-28

Rating maps of structural shifts and competitive advantages of Russian regions. “Economics and Entrepreneurship” No. 10 (part 1) (75-1) 2016 ISSN 1999-2300, P. 1226-1232

Methodology for forecasting the average monthly accrued wages of employees. Monograph. – ISBN 978-5-4365-1407-9, M., RUSIGNS, 2016—176 p

Information capabilities of the new indicator of the average monthly accrued wages of employees. - Materials of international scientific and practical conference “Improving the openness of domestic statistics”, dedicated to the professional holiday - the Day of the Statistician, 2016

Methodological recommendations for calculating the average monthly accrued wages of employees. Monograph. – ISBN 978-5-4365-1409-3, M., RUSIGNS, 2016—164 p

Applied multivariate statistical analysis: presentations for lectures and examples of solutions using R package. Scientific publication. - M., INFRA-M, 2016, ISBN 978-5-16-012133-8 (print), ISBN 978-5-16-104909-9 (online)

Sanctions impact on the regional economy: statistical evaluation of response differentiation. Materials of the scientific-practical conference "Statistics and challenges of our time" June 25-26, 2015, p. 194-198

Spatial harmonization of economic cycles: Statistical confirmation of European-Russian interaction in real sectors of the economy., Statistical Journal of the IAOS, 2013, p.281-289.

Statistics for bachelors with the basics of business statistics (co-authored), editor-in-chief. Plekhanov Russian University of Economics, 2014

Situational center for social and economic development of Russian regions: information and analytical support and problems of statistical methodology. Statistics as communication tool of international communication: Proceedings of the international scientific and practical conference. SI RAS. January, 2014

Quantitative estimation of the structural and dynamic processes of the Russian economy in the works of academic L. I. Abalkina and their implementation in modern conditions. VI International forum "Innovative development through the intellectual property market". Plekhanov Russian University of Economics. April, 2014

Creative class formation: International comparisons, statistical evaluation and forecast. Invited Paper Sessions (IPS 091), the 59th World Statistics Congress of International Statistical Institute. Census and Statistics department, ISI. August, 2013 (Scopus)

Cross-country interaction of business cycles in statistical modeling of economic growth. Invited Paper Sessions (IPS 091), the 59th World Statistics Congress of the International Statistical Institute. Census and Statistics department, ISI. August, 2013 (Scopus)

Statistical methods in the research of economic cycles interaction of industrial production in Russia and European Union countries. XXVIII Konferencja naukowa «Systemy wspomagania organizacji / Creativity support systems». SWO/CSS 2013, Szczyrk. октябрь.2013 (Scopus)

Developing statistics on the quality of life of the rural population based on the harmonization of domestic and European municipal statistics. Bulletin of Plekhanov Russian University of Economics. Plekhanov Russian University of Economics, March, 2013. (VAK/RSCI)

Statistical assessment of the synchronization of economic cycles in the development of European Union countries and Russia. Modern economy: concepts and models of innovative development. Plekhanov Russian University of Economics, February, 2013

Operational monitoring of the socio-economic development of the subjects of the Russian Federation in the system of state strategic planning. Voprosy Statistiki. Information and publishing center "Statistics of Russia", April, 2013

Problems of using statistical data for making dynamic models of economic and labor market development. Voprosy Statistiki. Rosstat, January 2013. (VAK/RSCI)

International encyclopedia of statistical science is a significant contribution to the future of statistics. Voprosy Statistiki. Rosstat, May, 2012. (VAK/RSCI)

Harmonization of economic cycles: methods of statistic research and econometric modeling. Ireland, Dublin, Proceedings of the 58-ro World Statistics Congress of the International Statistical Institute, 2012

Problems of substantiation of budget proportions by indicators of social and economic development of the Russian Federation. Bulletin of the Plekhanov Russian University of Economics. Federal State Budgetary Educational Institution of Higher Professional Education "PREU", October, 2012

Spatial synchronization and harmonization of economic cycles: a system of methods and results of a statistical study for Russia and EU countries. Proceedings of the International scientific-practical conference "State statistics as a public good: cost, quality, use", St. Petersburg, Sociological Institute of the Russian Academy of Sciences, 2012

Statistical methods in the study of the interaction of economic cycles of industrial production in Russia and EU countries. Moscow, Voprosy Statistiki, No. 2, 2012

Statistical approach to the study of the interaction of cycles in the macroeconomic dynamics of Russia and EU countries. M., Economic sciences, no. 9, 2012. (VAK / RSCI)

Methods of statistics in the international comparative analysis of economic development models. Methods of quantitative research of the processes of modernizing the economy and the social sphere in Russia: materials of the International scientific-practical conference dedicated 105th anniversary of Plekhanov Russian University of Economics. Federal State Budgetary Educational Institution of Higher Professional Education "PREU", 2012

University history is the history of the Department of Statistics. Bulletin of REU. Federal State Budgetary Educational Institution of Higher Professional Education "PREU", July, 2012

Intellectual property rights for IBM approved by Federal Intellectual Property Service, Rospatent

Online platform "Statistical literacy" based on international statistical standards (2021).

Electronic model for calculating the forecast for the level of average wages of employees in the context of Russian Federation regions (2017)

Electronic model for the imputation and verification of statistical data for calculating the accrued wages of employees (2017)

Visualization system of statistical data on labor productivity (2017)

Electronic model for calculating the forecast for the level of average wages of employees in the context of Russian Federation regions (2016)

Information and analytical Internet system "On-line monitoring of the socio-economic development of Russia and Russian Federation regions (2014)

Information system "Automated predictor of business cycles based on operational data of Russian Federation national statistics (2015)

Education, academic degrees, academic titles

2000 - was awarded the academic title of Professor of Statistics Department, by the decision of the Ministry of Education of the Russian Federation (№ 002019)
1999 - was awarded the scientific degree of Doctor of Economics by decision of the State Higher Attestation Committee of the Russian Federation (№ 014473)
1996-1998 - doctoral studies in Statistics department of Plekhanov Russian University of Economics
1993 - was awarded the scientific degree of Associate professor of Statistics department by decision of the Higher Education Committee of the Ministry of Science, Higher Education and Technical Policy of the Russian Federation (№ 008065)
1984 - was awarded the scientific degree of Candidate of Economic Science by decision of Council at the Moscow Institute of National Economy named after G.V. Plekhanov (№ 018300)
1980-1984 - post-graduate studies, Statistics department of Moscow Institute of National Economy named after G.V. Plekhanov
1980 - diploma with honors, Kuibyshev Planning Institute, Major - Industry planning
1976 - student at Kuibyshev Planning Institute, Major - Industry planning

Professional activity

2016 - present - Deputy head of project office, Moscow Analytical Center, chief scientific consultant of Situation center in Plekhanov Russian University of Economics
2011 - Vice-rector for Science, Head of Statistics department, Head of educational scientific center "Statistics and mathematics", Professor of Statistics department in Plekhanov Russian University of Economics.
2011 - 2014 - Professor of Statistics department, Head of Statistics department, Head of Scientific research center, Vice-rector for Science in Plekhanov Russian University of Economics,
2000 - 2011 - Vice-rector for Science and International relations in Samara State University of Economics
1984 - 2000 - Assistant, Senior lecturer, Associate professor, Professor of Statistics department, Dean of Agricultural business institute, Head of Statistics department in Samara State University of Economics
Lectures in foreign universities: guest professor in the University of Konstanz, Germany (Applied Multivariate Statistical Analysis), 2014

The most important scientific conferences

21 ICLS _ international Conference of labor Statisticians (ILO UN), Geneva, 2023.
Developing Machine Learning Methods in Experimental Official and Analytical Statistics, IPS, the 63th World Statistical Congress of International Statistical Institute, 2021, Hague, the Netherlands
Data Science for Official Statistics using R. Online workshop. Elena Zarova. International Statistical Institute, Analytical Center by Moscow City Government, University of the Philippines Los Baños (INSTAT, UPLB), October 28-29, 2020
International scientific-practical conference "DATA SCIENCE", February 5-7, 2020, Federal State budget educational institution of higher education "St. Petersburg State Economic University", Federal State Statistics Service office in St. Petersburg and Leningradskaya oblast (Petrostat), Russian Association of Statisticians, Institute of Sociology - Branch of the Federal Center of Theoretical and Applied Sociology of

the Russian Academy of Sciences, St. Petersburg. Elena V Zarova. Application of Data Mining methods in official statistics

Use of R in official statistics, UROS, 2-4 December 2020. Elena Zarova. Combination of statistical matching and bicluster analysis in data mining procedures in Russian official statistics.

Informal Employment and Sustainable Development Goals: Mutual Influence and Consistency of Indicators, STS 364, the 62th World Statistical Congress of International Statistical Institute, 2019, Kuala Lumpur, Malaysia

The 20th International conference of Labour Statisticians (ICLS), ILO, Geneva, Switzerland, October 10-19, 2018

International masterclass «Theory and practice of applying R in statistical analysis» (Plekhanov Russian University of Economics, Justus Liebig-University, Giessen, Germany), June 4, 2018, Moscow, Russia

Improving the methodology of earnings statistics in the Russian Federation, STS 013, the 61th World Statistical Congress of International Statistical Institute, 2017, Marrakech, Morocco

Statistical modeling of mutual influence of the EU and Russia industrial growth in conditions of economic instability, CPS, the 60th World Statistics Congress of International Statistical Institute, 2015, Rio de Janeiro, Brazil

The 5th World Conference on Learning, Teaching and Educational Leadership, 21-30 October 2014, Prague, Czech Republic

Cross-country interaction of business cycles in statistical modeling of economic growth, IPS 091, the 59th World Statistics Congress of International Statistical Institute, 2013, Hong-Kong

Harmonization of economic cycles: methods of statistic research and econometric modeling. IPS 091, the 58th World Statistics Congress of International Statistical Institute, 2011, Dublin, Ireland