

# TECHNOLOGY, SOCIETY, AND CONFLICT

# CONTRIBUTIONS TO CONFLICT MANAGEMENT, PEACE ECONOMICS AND DEVELOPMENT

Series Editor: Manas Chatterji

## Books in the Series

- Military Missions and their Implications Reconsidered: The Aftermath of September 11th,  
edited by G. Caforio and G. Kummel
- Managing Conflict in Economic Convergence of Regions in Greater Europe,  
edited by F. Carluer
- Cultural Differences between the Military and Parent Society in Democratic Countries, edited  
by G. Caforio
- Conflict and Peace in South Asia, edited by M. Chatterji and B. M. Jain
- War, Peace, and Security, edited by J. Fontanel and M. Chatterji
- Armed Forces and Conflict Resolution, edited by G. Caforio, G. Kummel and B. Purkayastha
- Regional Development and Conflict Management: A Case for Brazil, edited by R. Bar-El
- Crisis, Complexity and Conflict, edited by I. J. Azis
- Putting Teeth in the Tiger: Improving the Effectiveness of Arms Embargoes, edited by  
M. Brzoska and G. A. Lopez
- Peace Science: Theory and Cases, by P. Gangopadhyay and M. Chatterji
- Advances in Military Sociology: Essays in Honor of Charles C. Moskos (Two Volume Set),  
edited by G. Caforio
- Arms and Conflict in the Middle East, edited by R. A. Attar
- Economics of War and Peace: Economic, Legal, and Political Perspectives, edited by  
B. E. Goldsmith and J. Brauer
- Conflict, Complexity and Mathematical Social Science, edited by G. Burt
- Frontiers of Peace Economics and Peace Science, edited by M. Chatterji, C. Bo and R. Misra
- Ethnic Conflict, Civil War and Cost of Conflict, edited by R. Caruso
- Governance, Development and Conflict, edited by M. Chatterji, D. Gopal and S. Singh
- New Wars, New Militaries, New Soldiers? Conflicts, The Armed Forces and the Soldierly Subject,  
edited by G. Kummel and J. Soeters
- Cooperation for a Peaceful and Sustainable World, Part 1, edited by C. Bo, M. Chatterji and H.  
Chaoyan
- Cooperation for a Peaceful and Sustainable World, Part 2, edited by L. Junsheng, C. Bo and H. Na
- Nuclear Disarmament: Regional Perspectives on Progress, edited by P. M. Kamath
- Understanding Terrorism: A Socio-economic Perspective, edited by R. Caruso and A. Locatelli
- The Evolving Boundaries of Defence: An Assessment of Recent Shifts in Defence Activities,  
edited by R. Bellais
- Business, Ethics and Peace, edited by L. Bouckaert and M. Chatterji
- Emotions, Decision-making, Conflict and Cooperation, edited by U. Luterbacher
- Integral Ecology and Sustainable Business, edited by O. Jakobsen and L. Zsolna
- Disarmament, Peace and Development, edited by R. Braun, C. Archer, I. Breines, M. Chatterji  
and A. Skiljan
- How Do Leaders Make Decisions? Evidence from the East and West, Part A, edited by A. Mintz  
and D. (Dima) Adamsky
- How Do Leaders Make Decisions? Evidence from the East and West, Part B, edited by A. Mintz  
and D. (Dima) Adamsky
- New Frontiers in Conflict Management and Peace Economics: With a Focus on Human Security,  
edited by M. Chatterji and P. Gangopadhyay

CONTRIBUTIONS TO CONFLICT MANAGEMENT, PEACE  
ECONOMICS, AND DEVELOPMENT VOLUME 30

# TECHNOLOGY, SOCIETY, AND CONFLICT

EDITED BY

**ELENA G. POPKOVA**

*MGIMO University, Russia*

AND

**MANAS CHATTERJI**

*Binghamton University, USA*

*Guest Professor, Peking University, China*



United Kingdom – North America – Japan  
India – Malaysia – China

Emerald Publishing Limited  
Howard House, Wagon Lane, Bingley BD16 1WA, UK

First edition 2022

Editorial matter and selection © 2022 Elena G. Popkova and Manas Chatterji.  
Individual chapters © 2022 the authors.  
Published under exclusive licence by Emerald Publishing Limited.

**Reprints and permissions service**

Contact: [permissions@emeraldinsight.com](mailto:permissions@emeraldinsight.com)

No part of this book may be reproduced, stored in a retrieval system, transmitted in any form or by any means electronic, mechanical, photocopying, recording or otherwise without either the prior written permission of the publisher or a licence permitting restricted copying issued in the UK by The Copyright Licensing Agency and in the USA by The Copyright Clearance Center. Any opinions expressed in the chapters are those of the authors. Whilst Emerald makes every effort to ensure the quality and accuracy of its content, Emerald makes no representation implied or otherwise, as to the chapters' suitability and application and disclaims any warranties, express or implied, to their use.

**British Library Cataloguing in Publication Data**

A catalogue record for this book is available from the British Library

ISBN: 978-1-80262-454-0 (Print)  
ISBN: 978-1-80262-453-3 (Online)  
ISBN: 978-1-80262-455-7 (Epub)

ISSN: 1572-8323 (Series)



ISOQAR certified  
Management System,  
awarded to Emerald  
for adherence to  
Environmental  
standard  
ISO 14001:2004.

Certificate Number 1985  
ISO 14001



INVESTOR IN PEOPLE

# CONTENTS

<i>About the Editors</i>	<i>ix</i>
<i>About the Contributors</i>	<i>xi</i>
<i>Foreword</i>	<i>xxxiii</i>
<i>Acknowledgements</i>	<i>xxxv</i>
<b>Introduction: Technological Inequality as a Source of Conflicts in Digital Development and the Advantages of the Economic and Legal Approach to Their Resolution</b> <i>Elena G. Popkova</i>	<i>1</i>
<b>Chapter 1 Technological Inequality as a New Form of Economic Systems' Differentiation in the Conditions of Digital Development: The Economic and Political Conflict of Modern Time</b> <i>Elena G. Popkova and Anastasia A. Sozinova</i>	<i>7</i>
<b>Chapter 2 Unequal Distribution of Technologies in Entrepreneurship: Business Conflicts in Digital Competition and Opportunities for Conflict Management</b> <i>Tatiana N. Litvinova</i>	<i>15</i>
<b>Chapter 3 Technologies as the Key Resources of Modern Regions: Digital Inequality and Solutions for Technological Conflicts in the Regional Economy</b> <i>Pavel A. Kalinin, Alexey V. Tolmachev, Svetlana A. Tikhonovskova and Platon A. Lifanov</i>	<i>27</i>
<b>Chapter 4 Technological Discrimination of Consumers of Goods Under the Conditions of Digital Development: The Essence of Sales Conflict, Its Manifestations, and Perspectives of Overcoming</b> <i>Irina I. Saenko, Nadezhda K. Savelyeva, Elena A. Lysova and Victoria N. Ostrovskaya</i>	<i>37</i>

<b>Chapter 5 Technological Leap Amid the COVID-19 Pandemic and in the Post-pandemic Period: Digital Deprivation of Services, Social Contradictions and Conflict Management</b> <i>Anastasia A. Sozinova, Elena N. Makarenko, Elena Y. Zolochevskaya and Evgeny N. Tishchenko</i>	51
<b>Chapter 6 Technological Discrimination of Employees Amid the COVID-19 Pandemic and in the Post-Pandemic Period: Labour Conflicts of Express Digitalization and Their Solutions</b> <i>Irina S. Bagdasaryan, Andrey G. Golovko, Emil E. Barinov and Mikhail Y. Ponezhin</i>	67
<b>Chapter 7 Conflicts of Digital Development's Sustainability and Resolving Them Through the Balance of Social, Ecological and Economic Interests During Technological Progress</b> <i>Timofey Y. Cherepukhin, Nadezhda K. Savelyeva, Angelina M. Kovalenko and Olga B. Ivanova</i>	81
<b>Chapter 8 Monitoring of Technological Inequality in the Modern World Economy: Assessing the Scale of the Global Conflict and Scenarios for Its Development Depending on Conflict Management</b> <i>Anastasia A. Sozinova, Natalia G. Vovchenko, Elena D. Kostoglodova and Stanislav A. Khapilin</i>	93
<b>Chapter 9 Gender Conflict as a Factor of Global Technological Inequality: Modelling and Conflict Management Through the Analysis of Women's Participation in Science</b> <i>Irina M. Khil, Albina A. Chuprova, Gyulnaz E. Adygezalova and Arina S. Chueva</i>	105
<b>Chapter 10 Modelling of Conflict in the Labour Market Under the Conditions of Automatization Based on Robots, Big Data and AI: The Specifics of Technological Inequality of Countries and Conflict Management</b> <i>Konstantin V. Vodenko, Irina S. Bagdasaryan, Daria O. Tyurina and Galina B. Vlasova</i>	121
<b>Chapter 11 Conflict of Traditions and Innovations as a Source of Global Technological Inequality: Social Consequences of the Innovative Development of the Economy and the Basics of Conflict Management</b> <i>Alexey V. Tolmachev, Olesya A. Meteleva, Evgeniy B. Luparev and Elena V. Epifanova</i>	133

<b>Chapter 12 Technological Inequality as a Barrier to ‘Markets of Tomorrow’: The Conflict of International Trade and the Promising Directions of Conflict Management</b> <i>Adam U. Albekov, Svetlana S. Galazova, Ruslan G. Nepranov and Svetlana A. Litvinova</i>	147
<b>Chapter 13 Technological Inequality as a Barrier to Developing a Socially Oriented Market Digital Economy: International Experience and Conflict Management Through the Development of Social Entrepreneurship</b> <i>Sergey A. Dyakov, Irina A. Kislaya, Tatiana V. Makarenko and Anastasia I. Smetanina</i>	159
<b>Chapter 14 Technological Inequality at the Level of the Regional Economy and the Economic and Legal Approach to Conflict Management in the Field of Digital Development: A Case Study on the Example of Russian Regions</b> <i>Alexey V. Tolmachev, Elena V. Karanina, Yuri A. Kolesnikov and Alla V. Kiseleva</i>	173
<b>Chapter 15 Integration Mechanisms as Sources of Overcoming Technological Inequality and Overcoming the Conflict of Business Interests in the Digital Economy: Clusters, Special Economic Zones, Technology Parks and PPP</b> <i>Anna K. Lutoshkina, Valentina V. Koschey, Tatiana V. Epifanova and Alexey N. Pozdnyshov</i>	183
<i>Index</i>	195

*This page intentionally left blank*

## ABOUT THE EDITORS



**Manas Chatterji** (Binghamton University, USA, and Guest Professor, Peking University) is a Professor of Management and Adjunct Professor in Economics and the Asian and Asian-American Studies Program at Binghamton University, State University of New York, Guest Professor, Peking University, Visiting Professor, Central University of Finance and Economics and Distinguished Professor in Poznan University, Poland. He also served as a Richard P. Nathan Fellow in Public Policy at Rockefeller Institute of Government, SUNY. He is a Distinguished Fellow in the Program in Political Psychology and Decision Making (POP-DM) at Lauder School of Government, Diplomacy and Strategy, Israel. He was also an Honorary Distinguished Professor at Indian Institute of Management-Calcutta, India and George Mason University, USA. He is an Elected Member of Polish Academy of Science – Committee on Regional Planning. He is currently a Fellow of the International Organisation Economists for Peace and Security. He previously taught at the Wharton School at the University of Pennsylvania and has held visiting appointments at Cornell University, Erasmus University, University of Karlsruhe, University of Munster and many other universities in the United States, Europe, Asia and South Africa. He established the Mahatma Gandhi International Research Centre on Conflict Prevention and Management in Bangalore, India.

He organized several events in the past. He has organized international meetings on Peace Science, Disaster Management, Health Care, Technology Management, Disaster Management, etc., in many countries including Japan, China and Russia. During his career, he has edited three journals and serves on editorial boards of many others. Presently, he is the Co-editor of *International Studies of Peace Economics and Peace Science* published by Cambridge Scholars, UK. He is also the General Editor of a book series on *Contributions to Conflict Management, Peace Economics and Development* published by Emerald Publishing Limited, UK. Twenty-seven volumes in this series have been published and two more are forthcoming. He has authored/edited more than 30 books and published about 80 scholarly articles in the areas of Peace Science, Military Spending, Disarmament, Economic Conversion, Conflict Management, Regional Science, Technology Management, Health Care Management, Energy, Environmental and Urban Management. He got his B.A. (with honours in Statistics) at Calcutta University, M.A. (Statistics) at Calcutta University and Ph.D. at Wharton School, University of Pennsylvania.



**Elena G. Popkova** (Ph.D., MGIMO University) is a Professor of Economics and a Leading Researcher of the Centre for Applied Research of the Chair ‘Economic policy and public–private partnership’ of Moscow State Institute of International Relations, MGIMO University in Russia. She is also the Founder and the President of the Institute of Scientific Communications of INC Group, Volgograd, Russia. Her scientific interests include economic growth, sustainable development, social entrepreneurship, globalization, humanization of economic growth, developing countries, the insti-

tutionalization of society development, development planning, strategic planning, knowledge economy, digital economy and Industry 4.0. She has more than 350 publications, including 129 in Scopus ( $h = 23$ ), 110 in Web of Science ( $h = 11$ ), 36 monographs, 34 textbooks and manuals used in pedagogical practice. She is a Member of the Editorial Board of the *International Journal of Economic Policy in Emerging Economies* (Scopus, WoS) and the *International Journal for Quality Research* (Scopus, WoS). She became an invited participant of the Special Session of the European Parliament ‘European Cluster Days’ (Strasbourg, 18–19 March 2015) and a Visiting Professor at the Faculty of Management and Economics, Tomas Bata University, Zlin, Czech Republic (22–25 June 2015), as well as the University of Messina, Italy, October 2019. She was awarded: a Certificate of Honour by the Ministry of Education of the Russian Federation of the Volgograd Regional Duma in 2013, the Emerald ‘Literati Awards’ in the ‘Highly Commended Paper Award’ for 2020 and she is also included in the top 2% of the most-cited scientists in the world according to the Scopus database for 2019. She is the Editor of the ‘Advances in Research on Russian Business and Management’, Information Age Publishing (USA) (Web of Science) series and the book series.

## ABOUT THE CONTRIBUTORS



**Gyulnaz E. Adygezalova** graduated with honours from the Law Faculty of the Kuban State University in 2002. In 2004, at the Dissertation Council of the North Caucasus Academy of Public Administration (Rostov-on-Don) she defended her Ph.D. thesis on the topic: ‘Legal concept of American sociological jurisprudence of the twentieth century (Roscoe Pound, Talcott Parsons and Harry Bredemeyer)’. In 2009, she received the academic title of Associate Professor. In 2017, at the Dissertation Council of the Kuban State University, she defended her doctoral dissertation on the topic: ‘Sociological juris-

prudence of the United States in the 20th century: the formation of a doctrine, the development, and improvement of the rule of law’. The courses taught: ‘History of State and Law of Foreign Countries’, ‘Legal Conflictology’, ‘Comparative Jurisprudence’, ‘Technique for resolving legal disputes’, ‘Technique for drafting legal documents in the field of construction activities’, ‘Technical aspects of the activities of lawyers’, ‘Sociological support of lawmaking activities’. She is the Author of over 150 scientific and educational works.



**Adam U. Albekov** is a Member of the Presidential Council for Interethnic Relations, Co-chairman of the Rostov branch of the All-Russian National Front. He has graduated from the Rostov-on-Don Institute of National Economy in 1982. In 1993 he defended his Ph.D. thesis on the topic: ‘Small business in the field of commercial intermediation on the example of the Rostov region’ at the St. Petersburg State University of Economics and Finance. In 1996 he was awarded the title of Associate Professor. In 1999 he defended his Doctoral dissertation on the topic: ‘Logistics of trade-in means of production

and recycling of material resources’ at St. Petersburg State University of Economics and Economics. In 2000, he was awarded the academic title of professor. He has State awards, other awards and badges of merit are: Medal of the Order ‘For Merit to the Fatherland’, II degree (2002); Order ‘For Merit to the Rostov Region’

(2019); Honorary title ‘Honored Scientist of the Russian Federation’ (2009); badge ‘Honorary Worker of Higher Professional Education of the Russian Federation’ (2010 and others. His teaching experience is 26 years. He has been working at the department since 1995. He is an author of 198 scientific and educational works, including 29 monographs, 17 patents for inventions and four copyright certificates of registration of computer programmes.



**Irina S. Bagdasaryan**, Ph.D. in Psychology, is an Associate Professor, Deputy Director for Master’s Degree Institute of Management Business Processes and Economics of the Siberian Federal University, Krasnoyarsk, Russia (together with ANCO ‘Center for Assessment and Development of Project Management’, Moscow); Membership in professional, public organizations:

- Member of the Working Group of the Expert Council of the Committee on Science and Education of the State Duma of the Russian Federation ‘On Continuing Professional Education’;
- Member of the Expert Group ‘Monitoring Research and Assessment of Digital Literacy and Competencies’ of the Competence Center of the Federal Project ‘Personnel for the Digital Economy’ of the National Program ‘Digital Economy of the Russian Federation’;
- Member of the public council for the development of microentrepreneurship under the administration of the city of Krasnoyarsk;
- Member of the European Council for Business Education (ECBE, Brussels);
- Member of the Russian Association of Business Education (RABE, Moscow);

*Expert activity:*

- Expert FSBI ‘Rosakkredagentstvo’/Rosobrnadzor (Moscow);
- Expert of professional and public accreditation of the ‘National Accreditation Council of Business and Management Education’ (NACBME, Moscow);
- Expert of the Council of Professional Competencies of Office and Support Workers (Moscow);
- Independent expert of the Ministry of Construction of the Krasnoyarsk Territory on the observance and settlement of conflicts of interest;
- Consultant of the Union of Industrialists and Entrepreneurs of the Krasnoyarsk Territory;
- Consultant of the Department for the Training of State and Municipal Employees (personnel centre) of the Office of Personnel and Public Service of the Governor of the Krasnoyarsk Territory.



**Emil E. Barinov**, Ph.D. in Law, is an Associate Professor, Head of the Department of Constitutional and Municipal Law, Rostov State Economic University (RINH), Rostov-on-Don, Russia. In 1997, he has graduated from the Rostov Higher School of the Ministry of Internal Affairs of Russia with a degree in jurisprudence (qualification ‘Lawyer’). In 2001, he defended his Ph.D. in Law thesis in the speciality 12.00.02. – Constitutional Law; Municipal Law on the topic: ‘Constitutional Sense of Justice in the Russian Federation’. In 2007, he received the academic title ‘Associate Professor’ at the Department of Constitutional (State) Law. Until 2014, he served in the Internal Affairs Agencies (Rostov Law Institute of the Ministry of Internal Affairs of Russia). Retired Police Colonel. From 2015 to the present, he is the Head of the Department of Constitutional and Municipal Law at the Rostov State Economic University (RINH). By the Decree of the Federation Council of the Federal Assembly of the Russian Federation No. 250-SF dated 8 July 2020, he was appointed a Member of the Supreme Qualification Collegue of Judges of the Russian Federation. In total, more than 50 scientific articles, study guides and textbooks have been published by him.



**Timofey Yu. Cherepukhin**, Ph.D. in Economics, is an Associate Professor of Management and Marketing Department, Kuban State Agrarian University named after I.T. Trubilin, Krasnodar, Russia. His scientific area of interest includes, regional economics, management and marketing, and is the author of 79 scientific works, including 2 textbooks, 2 study guides, 10 articles in the HAC list, 1 Scopus article and 1 Web of Science article, as well as 3 monographs, Hirsch 15. He is an annual participant in competitions for grants from the RFBR. He has completed four economic agreements with organizations of the Southern region. He is the Deputy Dean of the Faculty of Economics for Academic Affairs, Scientific Supervisor of student works that won prizes. In 2020, he was awarded a Certificate of Honor of the Rector of Kuban State Agrarian University named after I.T. Trubilin.



**Arina S. Chueva**, Ph.D. in Law, is an Associate Professor of the Department of Administrative and Financial Law, Kuban State University, Krasnodar, Russia. She has graduated from the Law Faculty of the Kuban State Agrarian University in 2003. In 2006, at the Dissertation Council of the Kuban State Agrarian University, she defended her Ph.D. thesis on the topic: ‘Municipal legal theories in the history of Russia (XIX-XX) centuries’. Her teaching experience is 15 years. She has been working at the Department since 2018. The courses taught

are: 'Administrative law', 'Financial right', 'Tax law', 'Budgetary Law', 'Legal support of innovative activity', 'Legal support of investment activities'.



**Albina A. Chuprova**, Ph.D. in Philosophy, is an Associate Professor of the Department of Theory and History of State and Law, Kuban State University, Krasnodar, Russia. She has graduated from Irkutsk State University in 1991. In 2003, in the Dissertation Council of the named university, she defended her Ph.D. thesis on the topic: 'Formation of the spiritual experience of Russian legal consciousness'. In 2007, she received the academic title of Associate Professor at the Department of State and Legal Disciplines. Her teaching experience is 19 years. She has worked at the Department since 2017.



**Sergey A. Dyakov**, Ph.D. in Economics, is an Associate Professor of the Department of Management and Marketing, Kuban State Agrarian University named after I.T. Trubilin, Krasnodar, Russia. His scientific area of interest: regional management and marketing. He is the Author of 101 scientific works, including 1 textbook, 1 study guide, 30 articles in editions of the HAC list, 1 article of Scopus and 1 Web of Science, as well as 8 monographs, Hirsch 17. He is an annual participant of competitions for grants from RFBR. He completed 14 business agreements with organizations

of the Southern region, and he completed 6 business contracts with organizations of the Southern region. He is a Leading Lecturer at the Faculty of Economics of the KubSAU, on the preparation of masters, specialists and bachelors, the scientific supervisor of student works that won prizes. He has the academic title of Professor of Russian Academy of Natural History, 2020. He was awarded a certificate of honour from the Rector of Kuban State Agrarian University named after I.T. Trubilin, 2020.



**Elena V. Epifanova**, Ph.D. in Law, is an Associate Professor of the Department of Theory and History of State and Law, Kuban State University, Krasnodar, Russia. In 1991, she graduated from the Law Faculty of Voronezh State University. In 2003, at the Dissertation Council of the Kuban State University, she defended her thesis on the topic: 'Formation and development of the institution of complicity in a crime in Russia'. In 2005, she has received the academic title of Associate Professor. Her teaching experience is 26 years. She has been working at the department since 2013.



**Tatiana V. Epifanova**, Doctor of Economics, Ph.D. in Law, is a Professor at the Department of Civil Law, Faculty of Law, Rostov State Economic University (RINH), Rostov-on-Don, Russia. In 1995, she has graduated from the Rostov-on-Don Institute of National Economy with a degree in Information Systems in Economics. In 1997, she has graduated from the North Caucasus Academy of Public Administration with a degree in Jurisprudence. In 2006, she defended her Ph.D. in Law on the topic: 'Modern Russian state-confessional policy: legal forms of institutionalization'. In 2013, she defended her Doctor of Economics thesis on the topic: 'Methodology of state regulation and ensuring the sustainability of the development of small and medium-sized enterprises'. She has over 24 years of teaching experience. The course taught is the Civil Law and Property Law.



**Svetlana S. Galazova**, Doctor of Economics, is a Professor of the Department of Economics, North Ossetian State University named after K.L. Khetagurov, Vladikavkaz, Russia. She has graduated from the North Ossetian State University named after K.L. Khetagurov earned a degree in Trade Economics in 1972. In 1999, at the Dissertation Council of Rostov State University, she defended her Doctor of Economics thesis on the topic 'Intra-corporate sphere of macroeconomics'. In 2000, she was awarded the title of Professor. Her teaching experience is 43 years. She has been working in the department since 1978.



**Andrey G. Golovko**, Ph.D. in Legal Sciences, is an Associate Professor of the Department of Constitutional and Municipal Law, Rostov State Economic University (RINH), Rostov-on-Don, Russia. After graduating from the Higher School of Internal Troops of the Ministry of Internal Affairs of the Russian Federation (St. Petersburg) in 1992, he passed active military service in command assignment in units of the North Caucasus Federal District of the Internal Troops of the Ministry of Internal Affairs of the Russian Federation; since 1994, the Commander of the training unit of the Rostov Higher Police School. In the period from 1995 to 1998, he continued his studies at the full-time military postgraduate

studies of the Rostov Law Institute of the Ministry of Internal Affairs of Russia, after which he successfully defended his Ph.D. in Law thesis on the development and functioning of the law enforcement system of the Russian Federation. In 2007, based on the results of scientific and pedagogical activities, he received the academic title of Associate Professor. In 2013, he successfully graduated from the North Caucasus Humanitarian Institute (Stavropol) with a Bachelor of Economics degree. In 2014, he graduated with honours from the Russian Law Academy of the Ministry of Justice of the Russian Federation with the qualification 'Master of Jurisprudence'. He is the Author of about 200 scientific and educational works, including several monographs on the problems of law enforcement, textbooks and manuals on state and civil law disciplines.



**Olga B. Ivanova**, Doctor of Economics, is a Professor of the Department of Finance, Rostov State Economic University (RINH), Rostov-on-Don, Russia. After graduating from the Rostov Institute of National Economy in 1972 with a degree in 'Finance and Credit', she remained to work in the research sector of the Rostov-on-Don Institute of National Economy as a Junior Researcher. After graduating from the postgraduate programme, she worked first as an Assistant at the Department of Finance, then as a Senior Teacher, Associate Professor. In 1983 she successfully defended her Ph.D. thesis on the topic: 'Problems of the formation and use of economic incentive funds'. In

2004, she successfully defended her Doctor of Economics thesis on the topic: 'Territorial Finance of Russia: Theory and Methodology' in the speciality 08.00.10 – Finance, Money Circulation and Credit. In 2006, she was awarded the scientific degree of the Professor. From 2008 to 2016, she was the Scientific Secretary of the Dissertation Council D212.209.02, based on the Rostov State Economic University (RINH). Currently, she works as a Professor at the Department of Finance, is the Deputy Chairman of the Dissertation Council D212.209.05, created based on the Rostov State Economic University (RINH). She was awarded the industry award of the Ministry of Higher Education of the Russian Federation 'Honorary Worker of Higher Professional Education of the Russian Federation', memorable 'Avdey I. Gazulov' lapel pin for outstanding achievements in science and education, labour veteran. She has a winner's diploma for the book 'Public finances of Germany: theory and practice of methodology' (authors: N. G. Vovchenko, O. B. Ivanova, O. V. Andreeva and E. D. Kostoglodova) in the nomination 'Best scientific (educational) publication in Economic Sciences and Management' (VII Siberian Interregional Competition 'University Book – 2019').



**Pavel A. Kalinin** is a Senior Lecturer at the Department of Economics, Vyatka State University, Kirov, Russia. His research interests include regional economics, national economy management, enterprise economics, economics and entrepreneurship. His performer in research projects:

- No. 617/20 of 05.26.2020 ‘Development of effective models for increasing the investment attractiveness of the agro-industrial complex in the northern regions of the Omsk region’.
- No. 618/20 (GK No. 42-NR-SZN-2020/VyatGU-1) dated 06.08.2020 ‘Development of recommendations

for finalizing the program for selective observation of the health status of the population in 2020 and analysis of its results’.

- No. 619/20 (No. 0301200057820000004\_104987) dated 16.06.2020 ‘Study of the current state and development prospects of the low-tonnage chemistry market in the Republic of Bashkortostan within the framework of import substitution’.
- No.817/20 of 05.27.2020 ‘Marketing research in the interests of 5 (five) residents of technoparks of the Samara region’.
- No. 636/20 dated 06.10.2020 ‘Development of a mechanism for introducing and extending temporary state price regulation (national level) and criteria for assessing the impact of temporary state price regulation on the state of competition in the commodity markets of the member states of the Eurasian Economic Union’.

He has 32 publications, including 18 articles in peer-reviewed scientific journals and journals, and two articles in journals indexed in international databases Scopus and/or Web of Science.



**Elena V. Karanina**, Doctor of Economics, is the Head of the Department of Finance and Economic Security, Vyatka State University, Kirov, Russia. She supervises social, scientific and educational projects. She is the Head of the Centre for Financial Literacy, the Centre for the Development of Competencies and Certification of Financial and Risk Management of the Vyatka State University, Deputy Chairman of the Dissertation Council of the Vyatka State University in the scientific speciality 08.00.05 Economics and National Economy Management (economic security; innovation management), the Chairman of the Kirov regional department of the Russian Professors’ Meeting (RPM). She

is a Member of professional and expert communities and associations, the

member of the Supervisory Board of NCP 'RusRisk', the Head of the working group on updating the professional standard 'Risk Management Specialist', an expert in the scientific and technical sphere (RINKTSE), the RFBR expert, and the federal expert of the Agency for Strategic Initiatives (ASI). She has international professional certificates in the field of financial and risk management. She is the author of more than 300 publications, including more than 40 in the international databases WOS and Scopus, 28 monographs, more than 30 textbooks, and study guides in the field of economic security, risk management and finance.



**Stanislav A. Khapilin**, Doctor of Economics, is the Professor of Foreign Trade and Customs Department, Rostov State Economic University (RINH) Rostov-on-Don, Russia. He is a Chief State Customs Inspector of the Department for Inspection of the Activities of Customs Bodies of the Organisational and Inspection Service of the Southern Customs Administration. In 2005, he received a diploma (with honours) from the State Educational Institution of Higher Professional Education 'Russian Customs Academy' (Lyubertsy, Moscow Region), speciality:

Jurisprudence, qualification: Lawyer. In 2006, he graduated with honours from the Rostov State Economic University (RINH) with a degree in Finance and Credit, qualification: Economist. Ph.D. in Economics (2008) – 'The mechanism of administration of customs payments and its role in the formation of federal budget revenues' (speciality: 08.00.10 – Finance, Money Circulation, and Credit). Doctor of Economics (2015) – 'Development of Eurasian Economic Integration Based on the Modernization of the Mechanism of Customs Regulation' (speciality: 08.00.14 – World Economy).



**Irina M. Khil**, Ph.D. in Law, is an Associate Professor of the Department of Theory and History of State and Law, Kuban State University, Krasnodar, Russia. She has graduated from the Law Department of the Kuban State University in 1999. Her teaching experience is 21 years. The courses taught are: 'Jurisprudence', 'Theory of State and Law', 'Actual problems of lawmaking and law enforcement', 'Anti-corruption legal awareness', 'Legal regulation of life safety'. She is the Author of over 40 scientific and educational works.



**Alla V. Kiseleva, Ph.D. in Law**, is an Associate Professor at the Department of Financial Law of the Southern Federal University, Rostov-on-Don, Russia. She has graduated from the Rostov State University (1992) with a degree in Jurisprudence. Ph.D. was defended at the Saratov Law Institute in 1996. More than 28 years of teaching experience. The courses taught are: Constitutional Law of the Russian Federation, Administrative Law, Theory of Federalism, Financial Law and Tax Law. Her general list of publications includes more than 100 titles.



**Irina A. Kislaya, Ph.D. in Economics**, is an Associate Professor at the Department of Accounting, Dean of the Faculty of Accounting and Economics, Rostov State Faculty of Economics, Rostov-on-Don, Russia. In 2000, he has graduated from the Rostov State Economic Academy (RINH) with a degree in Accounting, Analysis, and Audit; qualification – ‘Economist’. In 2009, she defended her Ph.D. in Economics thesis, speciality 08.00.12. ‘Accounting, statistics’ on the topic: ‘Organisation and methods of tax audit in commercial enterprises’. In 2018, she was awarded the title of Associate Professor. Her teaching experience is 17 years. She has been working at the department since 2001. The courses taught are: Accounting (financial) accounting (bachelor’s degree); Accounting and Analysis in Commercial Organisations (Master’s Degree).



**Yuri A. Kolesnikov, Doctor of Law**, is an Associate Professor, the Head of the Department of Financial Law of the Southern Federal University. He has graduated from Rostov State University (1992) with a degree in Jurisprudence. In 2007, he defended his Doctor of Law thesis in the speciality 12.00.14 – Administrative Law; Financial Right; Information Law on the topic ‘Administrative and legal regulation of insurance activities in the Russian Federation’. He has more than 28 years of teaching experience. The courses taught are: Financial law, Financial and tax law, Actual problems of financial law, Legal regulation of financial markets, Regional and municipal finance: the legal basis of off-budget relations and regional, local taxes, The legal regime of regional and local taxes, The financial and economic basis of local self-government, Tax systems of the Russian Federation and European countries, Taxation and financial control of corporations, Legal regulation of competition and monopoly in the

WTO countries. He is a Laureate of the 'Lawyer of the Year 2020' award in the Legal Science nomination (established by the Decree of the President of the Russian Federation of October 8, 2009, No. 1129 On the highest legal award 'Lawyer of the Year'). The total number of published works: 280, five of which are monographs.



**Valentina V. Koschey**, Ph.D. in Economics, is an Associate Professor at the Department of Social and Humanitarian Sciences of Platov South-Russian State Polytechnic University (NPI), Novocherkassk, Russia. Her research interests include corporate social responsibility of energy companies, economic growth, social entrepreneurship, public-private partnerships, economic socialization, digital economy and Industry 4.0. She has more than 30 publications, including 1 in Scopus, in the RSCI system – 14 publications, h-index – two, monographs – one, textbooks and teaching aids – eight titles. She takes an active part in the work of

scientific conferences at various levels.



**Elena D. Kostoglodova**, Ph.D. in Economics, is an Associate Professor of the Department of Finance, Rostov State Economic University (RINH), Rostov-on-Don, Russia. In 2009, she graduated from the Rostov State Economic University (RINH) with a degree in 'Finance and Credit' with honours. In 2012, she defended her Ph.D. thesis on the topic: 'Modernization of the system of financing the sphere of culture in Russia' in the speciality – 08.00.10 'Finance, money circulation, and credit'. In 2018, she was awarded the title of Associate Professor. From September 2009 to the present time, the main place of work is the Department of Finance, Russian State University of Economics

(RINH). Her scientific and teaching experience is 11 years.



**Angelina M. Kovalenko**, Ph.D. in Sociology, is an Associate Professor of the Department of Social and Humanitarian Sciences, Platov South-Russian State Polytechnic University (NPI), Novocherkassk, Russia. She has done 45 publications. The number of publications included in the RSCI is 29, the number of citations – 23, h-index – 2, publications in Scopus and Web of Science – 3. A sociological concept of the value of life in the youth environment of Russian society has been developed by her, which made it possible to identify trends in its transformation in the conditions of a consumer society. She proposed a scientific hypothesis of the study, which states that the transformation of the

value of life in the youth environment of Russian society is influenced by the socio-cultural conditionality of the formation of the value of life in Russia and consumer ideology, as a result of which life itself is viewed by young people as subordinate to the logic of consumer life strategies perceived in the context of life success.



**Platon A. Lifanov** is a Student at Volgograd State Pedagogical University, Faculty of Technology, Economics, and Service, 'Economics and English' speciality. Interpreter at the Institute of Scientific Communications (ISC). He took part in Zambia's National Economic Summit in Livingstone and ISC's Conference in Prague, Czech Republic.



**Svetlana A. Litvinova**, Ph.D. in Economics, is an Associate Professor of the Department of Taxation and Accounting of the South-Russian Institute of Management, a branch of the RANEP. She is the Ph.D. Assistant Professor. In 2008, she graduated from the North Caucasus Academy of Public Administration with a degree of a Manager. In 2013, she defended her thesis, in 2019 she was awarded the title of Associate Professor in the speciality 'Finance, money circulation, and credit'. Her teaching experience is nine years. The courses taught are: Valuation and taxation of real estate, Economic analysis,

Organization and management of security in financial and credit institutions. She is the Author of over 50 scientific and educational works.



**Tatiana N. Litvinova**, Ph.D. in Economics, is an Associate Professor of the Department of Management and Logistics in the Agro-Industrial Complex, Volgograd State Agrarian University, Volgograd, Russia. She is the Author and Co-author of more than 100 scientific and educational-methodical works, including in the editions of the Higher Attestation Commission, in the indexed scientometric databases Scopus, Web of Science, RSCI. Her research interests include agricultural machinery market, business infrastructure, entrepreneurial activity in the agricultural machinery market, production planning in the agro-industrial complex. She takes an active part in International and National Conferences.



**Evgeniy B. Luparev**, Doctor of Law, is a Professor in the Head of the Department of Administrative and Financial Law of the Kuban State University, Krasnodar, Russia. He has graduated from the Law Faculty of the Voronezh State University in 1993. In 1998, at the Dissertation Council of Rostov State University, he defended his Ph.D. thesis on the topic: ‘State regulation of agriculture in the Russian Federation (administrative and legal issues)’. In 2002, he was awarded the title of Associate Professor. In 2004, at the Dissertation Council of Voronezh State University, he defended his Doctoral dissertation on the topic ‘Administrative and legal disputes’. In 2009, he was awarded the academic title of Professor. His teaching experience is 27 years. He works in the department since 2006.



**Anna K. Lutoshkina**, Graduate student, is a Junior Research Fellow, Vyatka State University, Kirov, Russia. Her research interests are: tourism, tourism economics, state regulation in the field of tourist and recreational activities, economics, entrepreneurship. Performer in research projects:

- No. 617/20 of 05.26.2020 ‘Development of effective models for increasing the investment attractiveness of the agro-industrial complex in the northern regions of the Omsk region’.
- No. 618/20 (GK No. 42-NR-SZN-2020/VyatGU-1) dated 06.08.2020 ‘Development of recommendations for finalizing the program for selective observation of the health status of the population in 2020 and analysis of its results’.
- No. 619/20 (No. 0301200057820000004\_104987) dated 16.06.2020 ‘Study of the current state and development prospects of the low-tonnage chemistry market in the Republic of Bashkortostan within the framework of import substitution’.
- No.817/20 of 05.27.2020 ‘Marketing research in the interests of 5 (five) residents of technoparks of the Samara region’.



**Elena A. Lysova**, Ph.D. in Economics, is an Associate Professor of the Department of Tourism and Personnel Management, Vyatka State University, Kirov, Russia. Her education is: Kirov State Pedagogical Institute, speciality Russian Language and Literature, 1988; and Vyatka State University, speciality Economics and Enterprise Management in 2004. The Dissertation topic is ‘Management of the competitiveness of enterprises in the sphere of security services’ 2015. Her research interests: competitiveness of enterprises in the service sector, entrepreneurship and small business. Experience in practical economic activity at a large enterprise for over 17 years.



**Elena N. Makarenko**, Doctor of Economics, is a Professor, Rector of the Rostov State Economic University (RINH) Rostov-on-Don, Russia. In 1988, she has graduated with honours from the Faculty of Economics of the Chechen-Ingush State University named after L.N. Tolstoy with a degree in Accounting and Analysis of Economic Activity in Industry. In 1988, she began her career as an Assistant at the Department of Economics, Organisation, and Planning of Production at the Chechen-Ingush State University named after L.N. Tolstoy. In 1988 she entered the full-time postgraduate study of the

Rostov-on-Don Institute of National Economy of the Order of the 'Badge of Honor'. In November 1988, she was accepted as a Junior Researcher of the Rostov-on-Don Institute of National Economy of the Order of the 'Badge of Honor'. In 1991, she has finished her postgraduate education, defended her Ph.D. thesis, and in the same year began work at the Department of Accounting and Analysis of Economic Activity in Industry as an Assistant. In 1995, she moved to the position of Senior Teacher, and in 1996, she was elected to the position of Assistant Professor. Since 2008, she has worked as Deputy Dean of the Faculty of Accounting and Economics in full-time education. In 2011, she defended her thesis for the degree of Doctor of Economics. In February 2012, she was appointed Acting Dean of the Accounting and Economics Faculty; in July 2012, she was elected to the post of Dean of the Accounting and Economics Faculty. On 21 September 2018, she was appointed to the post of First Vice-Rector – Vice-Rector for Academic Affairs of the Rostov State Economic University (RINH). Since 24 January 2019, she has been appointed Acting Rector of Rostov State Economic University (RINH). On 14 March 2019, at the Conference of Employees and Students of the Russian State University of Economics (RINH), by the results of a secret ballot, she was elected to the post of Rector. By the order of the Ministry of Science and Higher Education of the Russian Federation, she was approved as the Rector of the Rostov State Economic University (RINH) from 11 June 2019. From 2012 to the present, she has been working part-time as a Professor at the Department of Accounting.



**Tatiana V. Makarenko**, Ph.D., in Economics, Associate Professor at the Department of Accounting, Rostov State Economic University (RINH). She has graduated from the Faculty of Accounting and Economics of the Russian State Economic University (RINH) and received an honours degree in Accounting, Analysis, and Audit in 2015. The same year she started the postgraduate education of the Russian State Economic University (RINH) in the scientific speciality 08.00.12 'Accounting, statistics'. She began

working at the Department of Accounting as an Assistant. In 2018, she graduated from postgraduate education, and in June 2019 she defended her Ph.D. thesis on 'Accounting and analytical support for the transformation of Russian accounting standards to unify management accounting'. In 2019, she graduated from the Faculty of Linguistics and Journalism of the Russian State University of Economics (RINH) and received an honours degree in the field of training 'Linguistics', profile 'Translation and Translation Studies'. The area of her research interests is the transformation of national reporting in accordance with international financial reporting standards and accounting (financial, management, tax, etc.) in organizations of various organizational and legal forms.



**Olesya A. Meteleva** is a Junior Research Fellow at the Department of Economics, Vyatka State University, Kirov, Russia. Her research interests: marketing and business communications. Performer in research projects:

- No. 619/20 (No. 0301200057820000004\_104987) dated 16.06.2020 'Study of the current state and development prospects of the low-tonnage chemistry market in the Republic of Bashkortostan within the framework of import substitution'.
- No. 817/20 of 05.27.2020 'Marketing research in the interests of 5 (five) residents of technoparks of the Samara region'.
- No. 618/20 (GK No. 42-NR-SZN-2020/VyatGU-1) dated 01.07.2020 'Development of a concept for the creation and dissemination of linked open statistical data of Rosstat'.

She has done nine publications in the RSCI journals and three publications in the HAC journal.



**Ruslan G. Nepranov**, Ph.D. in Law, is an Associate Professor of the Civil Procedure Department of the Rostov State Economic University (RINH), Rostov-on-Don, Russia. She has graduated from the Rostov Higher School of the Ministry of Internal Affairs of Russia with a degree in Law in 1997. In 1997, after graduating from the Rostov Higher School of the Ministry of Internal Affairs of Russia, he was assigned to the Central Internal Affairs Directorate of the Rostov Region, where he served until October 1999. And from that time to February 2018, he was an employee of the RUI of the Ministry of Internal Affairs of Russia.

In 2002, he graduated from the full-time postgraduate course of the Rostov Law Institute of the Ministry of Internal Affairs of Russia. The academic degree of Ph.D. in Law was awarded by the decision of the Dissertation Council of the

Kuban State Agrarian University on 14 November 2002, and approved by the Higher Attestation Commission of Russia on 24 January 2003. In 2012, by the order of the Ministry of Education and Science of the Russian Federation, he was awarded the academic title of Associate Professor at the Department of Criminal Procedure. In 2013, he graduated from the North Caucasus Humanitarian Institute, where he was awarded the qualification of an Economist with a degree in Accounting, Analysis, and Audit. He is a retired Police Colonel.



**Victoria N. Ostrovskaya**, Doctor of Economics, is the Head of the Center for Marketing Initiatives, Stavropol, Russia. Professor of the Department of Theory and Technology in Management at the Southern Federal University, Rostov-on-Don, Russia. Her research interests are devoted to marketing support of a foreign economic activity, digital Industry 4.0, digitalization of marketing, benchmarking in retail, structuring of the quality function, social marketing, territory marketing, economic development of emerging markets and project management. She organizes scientific and practical conferences at the regional, national and international levels and acts as a moderator and speaker of business and training

events (forums, seminars, working meetings) for business entities, and conducts active research work. She is the Author of more than 170 scientific publications, including more than 130 scientific papers, and also carries out activities to promote the results of scientific research for their practical use.



**Mikhail Yu. Ponezhin**, Ph.D. in Law, is an Associate Professor of the Department of Constitutional and Municipal Law, Rostov State Economic University (RINH), Rostov-on-Don, Russia. He has graduated from the Rostov Law Institute of the Ministry of Internal Affairs of Russia in 1998 with a degree in 'Jurisprudence' (qualification 'Lawyer'). In 2000, he defended his Ph.D. in Law thesis in the speciality 09.00.10. – Philosophy of Law on the topic: 'The doctrine of monarchical statehood of L.A. Tikhomirov: Philosophical and legal analysis'. In 2005, he has received the academic title 'Associate Professor' in the Department of Theory and History of State and Law.

Until 2015, he served in the Internal Affairs Agencies (Rostov Law Institute of the Ministry of Internal Affairs of Russia). Retired Police Colonel. His total work experience is 27 years and work experience in the speciality is 23 years.



**Alexey N. Pozdnyshov**, Doctor of Law, is the Professor of Rostov State Economic University (RINH), Rostov-on-Don, Russia for 15 years, he has been heading the Department of Administrative Law of the Rostov Law Institute of the Ministry of Internal Affairs of Russia. He is a Police Colonel, an Honorary Officer of the Russian Ministry of Internal Affairs, the Honorary Worker of higher professional education. In 1992, he graduated from the Higher Law School of the Ministry of Internal Affairs of the Russian Federation. He has a higher technical and legal education. In 1996, he defended his Ph.D. thesis on the introduction of scientific research into the operational search activities of the internal affairs bodies, and in 2002 – his Doctoral dissertation, related to the problem of public safety in the Russian Federation. Since 2005 he has been a Professor of the Department of Financial and Administrative Law. He was awarded a medal ‘For Merit to the Fatherland’ II degree, and with a personal service weapon – the Makarov gun. He has rich practical experience. He defended his Dissertation for the degree of Doctor of Law in the speciality 12.00.14 ‘Institute of Public Administration in the Field of Public Security: Theoretical and Methodological Problems’.



**Irina I. Saenko**, Ph.D. in Economics, is an Associate Professor of Management and Marketing Department, Kuban State Agrarian University named after I.T. Trubilin, Krasnodar, Russia. His scientific area of interest: regional management and marketing. She is the Author of 107 scientific works, including three textbooks, four study guides, 20 articles in the editions of the HAC list, two Scopus articles and one Web of Science, as well as three monographs, Hirsch – 12. She completed four economic agreements with organizations of the Southern region. Annual participant of RFBR grants. She is the Deputy Head of the Postgraduate Education of KubSAU, direction 38.06.01 Economics, direction ‘Economics and management of the national economy’. She has the honorary title ‘Honoured Worker of Science and Education’, 2015. She is also awarded a Certificate of Honor of the Rector of KubSAU, 2020.



**Nadezhda K. Savelyeva**, Ph.D. in Economics, is an Associate Professor, Director of the Institute of Economics and Management, Vyatka State University, Kirov, Russia. Her Research interests: entrepreneurship, transnational markets, development planning and strategic development. In 2017, the Russian Academy of Sciences medal in the field of economics was awarded for the research work ‘Technology for a comprehensive assessment of the effectiveness of banks in regional markets: a monograph’. She is the nominee for the All-Russian highest public economic award ‘Economist of

the Year' – 2020. She is the Author of four certificates of registration of computer programmes; has more than 105 publications, including five monographs and 83 scientific works, including 10 articles in journals indexed by Scopus scientometric databases. She is the Head of the grant of the Russian Humanitarian Science Foundation 'Development and testing of methods for assessing the effectiveness of banks in the Kirov region'. Research director:

- for the Economic Commission for Europe, 2018;
- for the Ministry of Agriculture of the Russian Federation, 2018;
- for Rosstat, 2019;
- for regions, assessment of the state of competition and investigations on an initiative basis 2020.



**Anastasia I. Smetanina**, Ph.D. in Economics, is Research Projects Specialist, Institute of Scientific Communications (INK-GROUP LLC), Volgograd, Russia. She is the data scientist, the author of over 40 publications, including two monographs and two articles in journals indexed by Scopus. Laureate of the All-Russian Scientific and Practical Conference of Young Scientists 'Youth and Economy. New Views and Solutions', the winner of the regional conference of young researchers of the Volgograd region, the pride of the Polytech XXI century, laureate of the Ministry of Education and Science of the

Russian Federation for the support of talented youth. She has got prizes from the President and the Government of the Russian Federation. She is a medal awardee of the Russian Academy of Sciences for the best scientific work. Her research interests include business economics, international economic relations, digital economy, financial innovation and sustainable development.



**Anastasia A. Sozinova**, Doctor of Economics, is an Associate Professor, Deputy Director of the Institute of Economics and Management for Science at Vyatka State University, Kirov, Russia. Her research interests: economic growth, globalization, business reorganization, development planning and strategic development. Her experience of the scientific and pedagogical work is 10 years. She is the Author of more than 120 publications, has a Hirsch index in the RSCI – 13, in Scopus – eight, in the Web of Science – four. In addition, she is the author of five computer programmes used in the educational process. She is nominated for the All-Russian highest public economic award 'Economist of the Year' – 2020. She is actively involved in research projects. She was the Leader of a project carried out for the Ministry of Agriculture of the Russian

Federation on the topic 'Development of a Plan for the Advanced Development of Fish and Seafood Exports'. The completed research work was marked with a

letter of gratitude from the Ministry of Agriculture of the Russian Federation. She has also performed other research projects. She reviews books and textbooks for top-rated publishers: *Advanced issues on social entrepreneurship* (E. G. Popkova, B. S. Sergi, Palgrave Macmillan); *Challenges of the Modern Economy: Digital Technologies, Problems and Focus Areas of the Sustainable Development of Country and Regions* (Y. G. Buchaev, A. S. Abdulkadyrov, J. V. Ragulina, A. A. Khachatryan, Palgrave Macmillan); *Education in the Asia-Pacific Region: Issues, Concerns and Prospects* (E. G. Popkova, B. S. Sergi, Springer publishing house); *Sustainable Development and Green Growth* (E. G. Popkova, B. S. Sergi, Palgrave Macmillan).



**Svetlana A. Tikhonovskova**, Ph.D. in Economics, is an Associate Professor of the Department of Social and Humanitarian Sciences, Platov South-Russian State Polytechnic University (NPI), Novocherkassk, Russia. She has 65 publications. The number of publications included in the RSCI is – 39, the number of citations – 83, the *h*-index – five, Scopus and Web of Science publications – seven. She takes an active part in the scientific work of the department on the problems of territorial development, productively conducts research work on the topic ‘Socio-economic planning in the system of state and municipal management’ in the framework of the scientific direction of the university ‘Socio-economic processes in the transition to an

innovative model of the economy’, she has registered the know-how ‘Technology for the development and implementation of targeted programmes for the socio-economic development of municipalities’. She takes an active part in the work of scientific conferences at various levels.



**Evgeny N. Tishchenko**, Doctor of Economics, is a Professor, Dean of the Department of Computer Technologies and Information Security, Rostov State Economic University (RINH) Rostov-on-Don, Russia. His scientific and pedagogical experience is 30 years. He successfully conducts research work (more than 30 research projects), being the Head of self-supporting topics related to the development and analysis of information systems and information security systems. He is the Author of Lecture and Practical Courses in the disciplines of information security ‘Introduction to the speciality’, ‘Theory of

information security and methodology of information security’, ‘Computer cryptography’, ‘Psychology of information security’, ‘Fundamentals of information security’, provides scientific guidance to graduate students (successfully defended eight Ph.D. theses). He is the author of 23 educational and methodological

works (eight textbooks and teaching aids, including those with the Academic Methodological Association stamp). The results of scientific–practical and educational–methodical activities of him reflected in 128 publications, including publications from the list of Web of Science, Scopus, HAC of the Russian Federation, in collections of materials of international conferences.



**Alexey V. Tolmachev**, Doctor of Economic Sciences, Professor of Management and Marketing Department, Kuban State Agrarian University named after I.T. Trubilin, Krasnodar, Russia. He is the Honored Worker of the High School and the Agro-Industrial Complex of the Russian Federation. Scientific area of interest: management, marketing, use of resources and regulation of the development of the agro-industrial complex. He was the first in our country to develop and propose a price mechanism for state regulation of the grain market currently operating in the agro-industrial complex (Doctoral, 1997). He is the Author of more than 300 scientific papers, including 37 monographs and textbooks, 18 articles in Scopus and WoS databases, 97 in journals listed in the HAC, Hirsch 37. The Chairman of the methodological commission of the Faculty of Economics, a member of the Dissertation Council of Kuban State Agrarian University named after I.T. Trubilin, manages the postgraduate programme of the university in the direction of ‘Economics’. Twelve Ph.Ds. were defended under his supervision. He has completed 14 business contracts with organizations of the Southern Region, three Grants from the Ministry of Economy of the Russian Federation, and the Department of Agriculture of the Krasnodar Territory.



**Daria O. Tyurina** is a Postgraduate student, Southern Federal University, Russia, Rostov-on-Don. She is a Deputy General Director for Legal Affairs, the Head of the Legal Department of Donenergo JSC in Rostov-on-Don. From 2015 to 2019, she held the position of Director of the Department of Property and Land Relations of the City of Rostov-on-Don, Administration of the City of Rostov-on-Don. From 2007 to 2015, she held the position of a specialist of the first category of the land lease sector of the Land Lease Relations Department, Chief Specialist of the Law Department, the Head of the Department for Legal Documentation and Land Expertise, Deputy Director of the Department of Property and Land Relations of the city of Rostov-on-Don. From 2005 to 2007, she held the position of legal adviser at LLC Law Agency ‘Legal Services’ in the city of Novocherkassk, Rostov Region. In 2002, she graduated from the Southern Federal University. She was awarded: Letter of Gratitude from the Administration of the city of

Rostov-on-Don (2011), Letter of Gratitude from the Mayor of Rostov-on-Don (2012), Diploma of the Department of Property and Land Relations of the City of Rostov-on-Don (2013), Badge of Distinction 'For services to the city of Rostov-on-Don' (2016) and Commemorative Medal '185 years to Andrey Matveyevich Baykov' (2016).



**Galina B. Vlasova**, Doctor of Law, is a Professor of the Department of Theory and History of State and Law, Rostov State Economic University (RINH), Rostov-on-Don, Russia. In 1999, she graduated from the Rostov State Economic Academy with a degree in Jurisprudence, qualification 'Lawyer'. In 2001, she defended her Ph.D. in Philosophy. In 2006, she was awarded the academic title of Associate Professor in the Department of Theory and History of State and Law. In 2010, she defended her Doctor of Law thesis on the topic: 'Legitimation of the institutions of public

authority in the political, legal and socio-cultural dimensions (on the example of the evolution of justice)'. She conducts classes with students of the Faculty of Law in the following disciplines: 'Theory of State and Law', 'Actual Problems of Theory of State and Law', 'History of International Law', 'International Relations and International Justice', 'International Legal Responsibility'. The sphere of scientific interests lies in the study of a wide range of problems of the theory of state and law, international law and justice. She has published 224 works: 177 of them are scientific works, including 15 monographs and 47 educational and methodical publications.



**Konstantin V. Vodenko**, Ph.D. in Economics, is an Associate Professor at the Department of Social and Humanitarian Sciences, Platov South-Russian State Polytechnic University (NPI), Novocherkassk, Russia. He has been working at Platov South-Russian State Polytechnic University since 2006. He is the Head of the Master's programme 'State and municipal socio-economic policy in the direction of training state and municipal administration'. He actively participates in research work and is engaged in the study of socio-cultural and socio-economic institutions in the context of the formation of a national model of social development and public administration.

He was the Head of the grant of the President of the Russian Federation for state support of young Russian scientists – doctors of science on the topic 'Cultural and ideological foundations for the formation of a national model of regulation of socio-economic and scientific and innovative activities' (MD-651.2017.6). He is a Co-executor of grants from the Russian Humanitarian Science Foundation and the Russian Science Foundation. He is the first Deputy Editor-in-Chief of the scientific journal 'Humanities of the South of Russia', included in the list of the HAC and the ERIH PLUS database. He is a Member of the organizing

committees of various international conferences. The total number of publications is over 190. He is the author of 20 articles indexed in the Scopus and Web of Science databases. Guest editor of the special issue 'Vectors & Narrative Discourses of Modern Society' of the *Pertanika Journal of Social Sciences & Humanities*, indexed in the international Web of Science database. Served as executive editor of the book (collection of articles) indexed in the Scopus and Web of Science databases: *Public Administration and Regional Management in Russia – Challenges and Prospects in a Multicultural Region*/E.G. Popkova and K.V. Vodenko (eds.). Springer International Publishing AG, 2019. (Ser. Contributions to Economics). Thirteen Ph.D. theses were defended under scientific supervision. He is a Member of the Dissertation Council at the Southern Federal University.



**Natalia G. Vovchenko**, Doctor of Economics, is a Professor, Vice-Rector for Research and Innovation, Rostov State Economic University (RINH) Rostov-on-Don, Russia. She is a graduate (1990) of the Rostov-on-Don Institute of National Economy of the Order of the 'Badge of Honor' with a degree in Industrial Planning; qualification – 'Economist'. In 1992, she graduated from the Rostov-on-Don Institute of National Economy of the Order of the 'Badge of Honor' with a degree in Accounting, Control, and Analysis of Economic Activity; qualification – 'Economist'. In 1994, at the Dissertation Council of Rostov State University, she defended her Ph.D. in Economics thesis on the topic: 'Land reform and improvement of relations of agrarian nature management in the conditions of the formation of the market'. In 2002, she received the title of Associate Professor. In 2006, at the Dissertation Council of the Rostov State Economic University (RINH), she defended her Doctoral thesis on the topic 'Influence of financial globalization processes on the transformation of the financial system of Russia'. In 2015, she received the academic title of Professor. Her teaching experience is 31 years. She has been working in the department since 1990.



**Elena Y. Zolocheskaya**, Doctor of Economics, Professor at the Department of Taxation and Accounting at the South Russian Institute of Management – a branch of the RANEP, Rostov-on-Don, Russia. She has graduated from Rostov State University in 1999. In 2011, by the decision of the Higher Attestation Commission of the Ministry of Education and Science of the Russian Federation, she was awarded the degree of Doctor of Economics. In 2019, by the order of the Ministry of Science and Higher Education of the Russian Federation, she received the academic title of Professor with a degree in Economics and National Economy Management. She combines administrative work with teaching, and works part-time as a Professor at the Department of Taxation and Accounting at the South Russian Institute of Management – a branch of the RANEP. She is an author of over 60 scientific and educational works.

*This page intentionally left blank*

# FOREWORD

The greatest change in the economic scene of the world is globalization. It is the qualitative transformation of economic relationships. There are some people who are in support of globalization and others who contend that globalization is the root of various problems. The major drivers of globalization are transnational corporations and technological development. Due to globalization and technological development, there has been a global shift in the world economy. The relationship between labour and capital in the geographical space has greatly changed.

The role of technology is the most important factor. The technological change can be incremental innovations, radical innovations, changes of technological system and relationship between technology and economy. These changes have taken place in Interchange and Data Science, Mechatronics, Cyber Security, Information Technology, Material Science and Corporate Management and Institutions. Most negative societal changes in technology are in the field of military and defence industries. There are some good and bad impacts of technology in all areas of our society.

This book is devoted to the problem of technological inequality, which arose in connection with the formation of the digital economy, gaining newfound relevance to the New Industrial Revolution. This book is written in support of SDG 10 and aims to create a clear and systematic scientific understanding of a new form of inequality – technological inequality. The goal of this book is to draw the attention of all parties – society, government, business and the international community – to the problem of technological inequality and unite all our efforts in solving these problems.

This book focuses on conflict management, peace economics and sustainable development. Social, business and international conflicts arising from technological inequality are studied in order to form a theoretical basis for their solutions. The subject area of this book is not the conflicts of technological inequality themselves, but ways to resolve them. Due to this, the book has a highly practical applied significance and is intended to serve as a useful guide on conflict management of the digital economy and on ensuring its balanced and sustainable (conflict-free) development.

It rethinks the idea of peace economics in the context of the New Industrial Revolution and shows a new facet of peace economics – reducing technological inequality as a path to stability, prosperity and well-being for all. It is based on the idea that the key to digital peace economics and sustainable development in the conditions of the New Industrial Revolution is a set of economic and legal measures of technological conflict-management. It shows that combined efforts at the level of state and law (including international law) and efforts of economic

agents at the level of business and society open up new, wider prospects for reducing, and in the future, overcoming technological inequality.

The book provides scientific and methodological support for this mission with the help of the author's applied recommendations in the field of supranational, state and corporate governance. We hope that our book will also contribute to mitigating the manifestations and consequences of the COVID-19 pandemic and crisis. To do this, we have offered special recommendations in the book on bridging the technological divide to unlock the potential of the digital economy to preserve and restore the quality of life in the face of economic restrictions and social distancing. We call upon everyone to contribute to technological conflict management, digital peace economics and sustainable development in the context of the New Industrial Revolution.

Prof. Manas Chatterji, Binghamton University, NY

Prof. Elena G. Popkova, MGIMO University, Moscow, Doctor of Economics

# ACKNOWLEDGEMENTS

We are grateful to all the authors, especially the participants of the Consortium for Sustainable Development and Technological Leadership (Russia) – Rostov State University of Economics, Ufa State Petroleum Technological University, Komsomolsk-on-Amur State University and the Institute of Scientific Communications (INK) for the preparation of high-quality scientific materials included in this book.

We also want to thank our two assistants, Liyang Dong and Suzanne Lee, graduate students of SUNY Binghamton University for providing excellent editorial and secretarial services.

*This page intentionally left blank*

# INTRODUCTION

## TECHNOLOGICAL INEQUALITY AS A SOURCE OF CONFLICTS IN DIGITAL DEVELOPMENT AND THE ADVANTAGES OF THE ECONOMIC AND LEGAL APPROACH TO THEIR RESOLUTION

Elena G. Popkova

In the early 2000s, humanity found a consensus and concluded a collective agreement on the necessity for sustainable development – which is understood as the termination of all conflicts. However, the adopted global mission and the formulated goals of sustainable development are not easy to implement in the contradictory and dynamic modern environment.

Digital development was supposed to become a key to the sustainability of economic systems and a universal means of overcoming social (through artificial intelligence (AI)'s neutral treatment of humans of any sex, age, ethnos, etc.) and economic (through the accelerated modernization and increase in global competitiveness of underdeveloped countries, regions, and companies and reduction of inequality of incomes in economy) inequality. Instead of this, digital development led to the emergence of a new form of inequality – technological inequality, which is nowadays manifested at all economic levels.

As a result, digital development increased the existing conflicts and led to new serious conflicts. In the period of stability (after the end of the global financial

---

Technology, Society, and Conflict

Contributions to Conflict Management, Peace Economics and Development, Volume 30, 1-5

Copyright © 2022 by Elena G. Popkova

Published under exclusive licence by Emerald Publishing Limited

ISSN: 1572-8323/doi:10.1108/S1572-83232022000030001

crisis, which started in 2008, and before the start of the COVID-19 pandemic), technological conflicts were manifested in the form of unequal access of countries, regions and companies to global hi-tech markets and the vivid deprivation of underdeveloped economic systems and economic subjects.

Digitalization was elite covering primarily the most progressive countries (as shown by the IMD World Digital Competitiveness Ranking), the most densely populated and urbanized regions, the largest transnational corporations, and the most well-to-do categories of the middle-aged population. Socio-economic discrimination in the digital sphere reached a very high level, exceeding traditional discrimination (e.g. by sex and ethnicity). Expectations about the objectivity of AI and the overcoming of social discrimination were not justified, which has been shown in recent work on the truth of AI (Zou & Schiebinger, 2018).<sup>1</sup>

As was revealed later, the period of stability (relative) was only a preparation for the large-scale digitalization, and technological inequality in the conditions of stability had not yet reached its peak, which came in the conditions of the COVID-19 pandemic and crisis. The global lockdown in 2020, which was replaced by renewed limitations and social distancing measures in certain countries, showed the topicality of technological inequality and social conflicts that are caused by it.

While in the period of stability, the rates of digitalization were determined by international competition in hi-tech markets and their own national strategies (with the foundation on capabilities and ambitions) of countries, digitalization amid the pandemic and crisis (uncertainty and instability) became urgent and quick. This led to significant differences in the depth of the crisis in different countries, regions and companies, depending on the level of their digital development and to different losses from the crisis for various categories of population, depending on the accessibility of digital technologies and digital infrastructure, the level of their use, and digital skills.

The COVID-19 pandemic and crisis became the materialization of technological inequality and social conflicts. The novelty of technological inequality requires a new approach to its reduction and overcoming during the conflict management of digital development. The traditional economic inequality, which is manifested in different rates of economic growth, the different innovative activity of countries, and differences in the income level of population and countries, is successfully managed with the help of the economic approach, which envisages the application of the measures of financial support for underdeveloped countries and the poorest groups of the population.

Traditional social inequality became a very serious problem in the conditions of the pandemic. An unprecedented and critical level of social tension because of the lockdown led to ethnic conflicts in the United States. Despite these commotions, American society successfully coped with the ethnic conflicts

---

<sup>1</sup> Zou, J., & Schiebinger, L. (2018). AI can be sexist and racist – It's time to make it fair. *Nature*, 559, 324–326. <https://doi.org/10.1038/d41586-018-05707-8>

by proclaiming social equality and ethnic neutrality of society. Conflicts of social discrimination of people by sex are solved in the same way – through sex neutrality. The problem of ageism (age discrimination) was manifested before the pandemic – it was solved with the help of automatization of labour and age neutrality of employees.

However, solving the problem of technological inequality only with the help of economic (expansion of digitalization financing) or legal (refusal from digitalization rankings and acknowledgement of economic systems as technologically neutral) cannot be achieved. In this book, the economic and legal measures are combined, and an approach to their complex application for conflict management during digital development is offered – which allows achieving high effectiveness and prominent results around the world and at all economic levels.

The novelty, originality and uniqueness of this book are ensured by its following advantages. First, it considers – in detail and a systemic manner – technological inequality and conflicts of digital development, caused by technological inequality, because of their manifestations at all economic levels: international, regional and entrepreneurial, as well as at the level of households. Second, the book contains a range of case studies, which present a detailed and deep analysis of modern Russia's experience, which ensures the applied character of the book and its wide empirical significance.

Third, a lot of attention is paid to the new experience of technological inequality and aggravation of conflicts of digital development in the conditions of the COVID-19 pandemic and crisis in 2019–2020 with the foresight at the post-pandemic period. Fourth, a new – economic and legal – approach to technological inequality conflict management during digital development is offered. Due to the progressive approach, the social nature of technological inequality and conflicts of digital development is determined, and their modelling as social institutions is performed.

Fifth, in addition to the use of reliable data of the leading statistical organizations (the World Bank, IMD, and the World Economic Forum) and alternative data (materials of sociological surveys), this book uses the progressive methodology of dataset studies. The book uses the materials of datasets of the Institute of Scientific Communications (<https://iscvolga.ru/датасеты>) for performing large-scale international studies and detailed analysis of the experience of various countries of the world. This ensures objectivity, correctness, wide-coverage and high precision of the obtained conclusions and offered recommendations.

This book aims at a comprehensive and systemic scientific study of technological inequality as a source of conflicts during digital development and at the development of the economic and legal approach to solving them. For this purpose, a set of tasks, which predetermined the logical structure of the book (15 chapters), are solved.

In Chapter 1, technological inequality is defined and studied as a new form of differentiation of economic systems in the conditions of digital development and the economic and political conflict of modern times. The authors determine the essence and compile an institutional model of conflicts of digital development at the level of countries from the positions of large technological barriers at

the world hi-tech markets, global digital competition and unequal technological development of countries.

Chapter 2 is devoted to the reflection of the unequal distribution of technologies in entrepreneurship. It describes the essence and the institutional nature of business conflicts during digital competition and the opportunities for conflict management; the authors show the differences in accessibility and activity of the use of digital technologies by companies from different spheres and countries. The universal character of technological development is substantiated for the first time – it is shown that digital modernization is useful and necessary in all spheres and for all companies.

Chapter 3 shows technologies as the key resources of modern regions. Digital inequality and the basic solutions for technological conflicts in the regional economy are described. Chapter 4 reflects the technological discrimination of consumers of goods in the conditions of digital development. The research is performed at the level of sectorial markets by the example of online trade, as a universal segment of modern markets, which ousts and replaces their other segments. The authors determine the essence of marketing conflict and model its manifestations and perspectives for overcoming based on the economic and legal management and with the help of institutions' development.

Chapter 5 shows the technological leap amid the COVID-19 pandemic and in the post-pandemic period. The research is performed at the level of sectorial markets, as well. Digital deprivation of services, social contradictions and conflict management in the markets of government, medical and educational services during the lockdown is considered. Chapter 6 considers the technological discrimination of employees amid the COVID-19 pandemic and in the post-pandemic period. Labour conflicts of express digitalization and their solutions are studied. Main attention is paid to the problem of technological inequality during the transfer of employees to remote work, caused by their different readiness and the possibility of performance of such transfer. Chapter 7 determines the conflicts of digital development's sustainability and their solutions through the balance of social, ecological and economic interests during technological progress.

Chapter 8 monitors technological inequality in the modern world economy. It estimates the scale of the global conflict based on the analysis of international experience with the identification of the features of developed and developing countries and identified scenarios of its development depending on the conflict management. Chapter 9 reveals a gender conflict, which is considered a factor in global technological inequality. The modelling of this conflict and conflict management is carried out through the analysis of women's participation in science.

Chapter 10 is devoted to modelling the conflict in the labour market in the context of automation based on Robots, Big Data and AI. It identifies the features of technological inequality of countries and offers applied recommendations for conflict management. Chapter 11 analyses the conflict of tradition and innovation as a source of global technological inequality. The social consequences of the innovative development of the economy are investigated and the scientific and practical foundations of conflict management are determined.

Chapter 12 identifies technological inequality as a barrier to the creation of new ‘markets of tomorrow’. The conflict of international trade is revealed and promising directions of conflict management are substantiated. In Chapter 13, technological inequality is examined and identified as a barrier to building a socially oriented market digital economy. International experience and conflict management through the development of social entrepreneurship are considered.

Chapter 14 is devoted to the analysis of technological inequality at the level of the regional economy and the economic and legal approach to conflict management in the field of digital development. A case study is carried out on the example of the regions of Russia. In Chapter 15, integration mechanisms are considered – clusters, special economic zones, technoparks and public–private partnerships (PPPs) as sources of overcoming technological inequality and overcoming conflicts of business interests in the digital economy.

*This page intentionally left blank*

# CHAPTER 1

## TECHNOLOGICAL INEQUALITY AS A NEW FORM OF ECONOMIC SYSTEMS' DIFFERENTIATION IN THE CONDITIONS OF DIGITAL DEVELOPMENT: THE ECONOMIC AND POLITICAL CONFLICT OF MODERN TIME

Elena G. Popkova and Anastasia A. Sozinova

### ABSTRACT

*This chapter's goal is to determine the essence and causal connections of the emergence of conflicts at the level of economic systems (countries) due to technological inequality and to find the perspectives of overcoming these conflicts. The chapter models the economic and political conflict of modern time under the conditions of high-tech development based on the methods of variation analysis and regression analysis. It is proven that the scale of technological inequality in the world economy is very large. It is the economic and political conflict of modern time, the essence of which is as follows: the differentiation of economic systems amid digital development predetermines the opportunities for their entering the world markets. This chapter contributes to the development of the theory of economic and political conflicts, proving the existence of technological inequality as a new form of differentiation of economic systems amid digital development and defining this inequality as a new economic and*

---

Technology, Society, and Conflict

Contributions to Conflict Management, Peace Economics and Development, Volume 30, 7–14

Copyright © 2022 by Elena G. Popkova and Anastasia A. Sozinova

Published under exclusive licence by Emerald Publishing Limited

ISSN: 1572-8323/doi:10.1108/S1572-83232022000030002

*political conflict of modern time. The chapter also contributes to the development of the theory of international trade, disproving – for the first time – the action of the principle of freedom of international trade. The authors describe technological barriers of the world markets, which limit the presence of countries that are behind the leading countries by digital development. Three key factors that determine the level of technological development of the economy are given: knowledge-intensive employment, venture investments and financing of innovations in business. Due to the above, the chapter provides opportunities for technological conflict management.*

**Keywords:** Conflict management; differentiation of economic systems; digital development; economic and political conflict; financing of innovations; knowledge-intensive employment; technological inequality; venture investments

**JEL classifications:** D63; D74; F51; G24; I24; J24; O31; O32; O33; O38; P45

Under the conditions of the Fourth Industrial Revolution and against the background of the acceleration of technological progress, there emerged conflicts at the level of economic systems (countries) in the global economy – due to technological inequality. These conflicts are a new phenomenon in the global economy, which is especially current for the twenty-first century, though the global technological conflict was imminent since the seventeenth century and increased after each industrial revolution.

The initial precondition to the emergence of the modern digital technological conflict was industrialization, which started in the seventeenth century and continued in many countries (e.g. in the USSR) until the middle of the twentieth century. In that period, the technological development of countries determined the possibilities for the resolution of international political conflicts and the establishment of peace. This was vividly expressed in the First and Second World Wars when the sophistication of weapons predetermined military success and chances for victory. The technological development of products predetermined their competitiveness in the world markets.

The digital modernization of society and economy, which began in the late twentieth century and reached its peak in the twenty-first century, set high technological barriers in the world markets. As of now, the technological level of products determines the essential possibility of entering world markets, which complicates the involvement and development of (especially underdeveloped) countries in international trade and causes foreign trade conflicts.

Technological inequality has become a new form of differentiation of economic systems. This is proved by the indicators of technological development in international rankings of countries, among which are the Global Competitiveness Report of the World Economic Forum and the IMD World Digital Competitiveness Ranking.