

Smart Innovation, Systems and Technologies

Volume 172

Series Editors

Robert J. Howlett, Bournemouth University and KES International,
Shoreham-by-sea, UK

Lakhmi C. Jain, Faculty of Engineering and Information Technology,
Centre for Artificial Intelligence, University of Technology Sydney,
Sydney, NSW, Australia

The Smart Innovation, Systems and Technologies book series encompasses the topics of knowledge, intelligence, innovation and sustainability. The aim of the series is to make available a platform for the publication of books on all aspects of single and multi-disciplinary research on these themes in order to make the latest results available in a readily-accessible form. Volumes on interdisciplinary research combining two or more of these areas is particularly sought.

The series covers systems and paradigms that employ knowledge and intelligence in a broad sense. Its scope is systems having embedded knowledge and intelligence, which may be applied to the solution of world problems in industry, the environment and the community. It also focusses on the knowledge-transfer methodologies and innovation strategies employed to make this happen effectively. The combination of intelligent systems tools and a broad range of applications introduces a need for a synergy of disciplines from science, technology, business and the humanities. The series will include conference proceedings, edited collections, monographs, handbooks, reference books, and other relevant types of book in areas of science and technology where smart systems and technologies can offer innovative solutions.

High quality content is an essential feature for all book proposals accepted for the series. It is expected that editors of all accepted volumes will ensure that contributions are subjected to an appropriate level of reviewing process and adhere to KES quality principles.

**** Indexing: The books of this series are submitted to ISI Proceedings, EI-Compendex, SCOPUS, Google Scholar and Springerlink ****

More information about this series at <http://www.springer.com/series/8767>

Denis B. Solovev · Viktor V. Savaley ·
Alexander T. Bekker · Valery I. Petukhov
Editors

Proceeding
of the International Science
and Technology Conference
“FarEastCon 2019”

October 2019, Vladivostok, Russian
Federation, Far Eastern Federal University

 Springer

Editors

Denis B. Solovev 
School of Engineering,
Department of Innovatics
Far Eastern Federal University (FEFU)
Vladivostok, Russia

Vladivostok Branch of Russian
Customs Academy
Vladivostok, Russia

Alexander T. Bekker
School of Engineering,
Department of Innovatics
Far Eastern Federal University (FEFU)
Vladivostok, Russia

Viktor V. Savaley
School of Engineering,
Department of Innovatics
Far Eastern Federal University (FEFU)
Vladivostok, Russia

Valery I. Petukhov
School of Engineering,
Department of Innovatics
Far Eastern Federal University (FEFU)
Vladivostok, Russia

ISSN 2190-3018

ISSN 2190-3026 (electronic)

Smart Innovation, Systems and Technologies

ISBN 978-981-15-2243-7

ISBN 978-981-15-2244-4 (eBook)

<https://doi.org/10.1007/978-981-15-2244-4>

© Springer Nature Singapore Pte Ltd. 2020

This work is subject to copyright. All rights are reserved by the Publisher, whether the whole or part of the material is concerned, specifically the rights of translation, reprinting, reuse of illustrations, recitation, broadcasting, reproduction on microfilms or in any other physical way, and transmission or information storage and retrieval, electronic adaptation, computer software, or by similar or dissimilar methodology now known or hereafter developed.

The use of general descriptive names, registered names, trademarks, service marks, etc. in this publication does not imply, even in the absence of a specific statement, that such names are exempt from the relevant protective laws and regulations and therefore free for general use.

The publisher, the authors and the editors are safe to assume that the advice and information in this book are believed to be true and accurate at the date of publication. Neither the publisher nor the authors or the editors give a warranty, expressed or implied, with respect to the material contained herein or for any errors or omissions that may have been made. The publisher remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.

This Springer imprint is published by the registered company Springer Nature Singapore Pte Ltd. The registered company address is: 152 Beach Road, #21-01/04 Gateway East, Singapore 189721, Singapore

Editorial

The International Scientific Conference “FarEastCon” took place on October 1–4, 2019, in Vladivostok, Russian Federation. The conference was organized by ten universities—Far Eastern Federal University (FEFU, Vladivostok), North-Eastern Federal University (Yakutsk), Amur State University of Humanities and Pedagogy (Komsomolsk-on-Amur), Far Eastern State Transport University (Khabarovsk), Komsomolsk-on-Amur State Technical University (Komsomolsk-on-Amur), Amur State University (Blagoveshchensk), Vladivostok State University of Economics and Service (Vladivostok), Research Institute of Building Physics and Fencing Constructions of the Academy of Construction and Architecture (Moscow), Economic Research Institute of Far Eastern Branch of the Russian Academy of Sciences (Khabarovsk), and Pacific National University (Khabarovsk).

The conference was carried out under financial support of the Far Eastern Federal University, the Russian Foundation for Basic Research as well as at informational support of the Institute of Electrical and Electronics Engineers (Russian (Far Eastern) Subsection of IEEE).

The conference represents an informational platform for accumulation of expert opinion on projects and initiatives that are aimed at the implementation of farsighted scientific research and development; it allows to present scientific and practical achievements to a wide circle of researchers.

Sections of the conference are of interest for the broad range of experts in the sphere of development of innovative solutions and organizing events that increase the efficiency of economic and innovative activities.

The international program committee has selected some papers for publishing in the Smart Technologies and Innovations in Design for Control of Technological Processes and Objects: Economy and Production—Proceeding of the International Science and Technology Conference “FarEastCon 2019”.

FarEastCon is a high-quality conference with a competitive submission process. For example, in 2019, FarEastCon only accepted 30% of submitted papers. FarEastCon has a rigorous reviewing process that is similar to the processes used by IEEE. Every submitted paper and poster is subjected to this process.

The main criterion is a judgment of the degree to which the submitted paper contributes substantial new research.

Reviewers rate the paper using a ten-point ranking scale and provide a written evaluation. The written evaluation needs to support the reasoning behind the numeric ranking.

After the review period, there is a discussion period, where all reviewers can see the other reviews.

Organizing committee would like to express our sincere appreciation to everybody who has contributed to the conference. Heartfelt thanks are to the authors, reviewers, participants and to all the team of organizers for their support and enthusiasm which granted success to the conference.

Denis B. Solovev
solovev.db@dvfu.ru
Conference Char

Contents

| | | |
|----------|---|------------|
| 1 | Exploring Research Methods and Dynamic Systems Toward Economic Development: An Overview | 1 |
| | G. L. Kyriakopoulos, D. B. Solovev, S. S. Kuzora and V. Terziev | |
| 2 | Algorithmic Approach to the Assessment of Innovation | 31 |
| | D. B. Solovev, S. S. Kuzora, G. L. Kyriakopoulos and V. Terziev | |
| 3 | Visualization Strategies for the Management of Manufacturing Based on Digital Models | 51 |
| | V. S. Borovik and V. V. Borovik | |
| 4 | Problems of Adaptation of Technical University Graduates in the Formation Conditions of New Economic Reality | 61 |
| | S. Kolodyazhnyi, S. Korshunova and L. Perevozchikova | |
| 5 | Organization of Educational Process in Conditions of Modern Polytechnic Education Development | 69 |
| | V. V. Moiseev, E. A. Karelina, I. V. Kirova and M. Yu. Karelina | |
| 6 | The Definition of Minorities in the African Legal and Political Doctrine | 79 |
| | E. V. Safronova, S. Mohammed and A. C. P. Ngatheyo | |
| 7 | The Analysis of Economic Indicators Based on the Information Model of N. Wiener | 89 |
| | A. S. Dulesov, D. J. Karandeev, O. S. Ereemeva and T. G. Krasnova | |
| 8 | Psychosemantic System of Family Purposefulness: Structural Research | 101 |
| | N. V. Nozikova | |
| 9 | Numerical Study of Optimal Control Problem for a Distributed System of Savings in the Region's Population | 117 |
| | V. P. Pervadchuk, D. B. Vladimirova and P. O. Derevyankina | |

| | | |
|-----------|---|-----|
| 10 | Multialternative Approach to the Mainstream Development Management of Regional Economics | 125 |
| | S. L. Podvalny, N. V. Minakova and E. M. Vasiljev | |
| 11 | The Health Care System as a Mechanism for the Integration of Indigenous Peoples of the Khabarovsk Territory into Soviet Society (The Second Half of the 1940s–The First Half of the 1980s) | 139 |
| | S. V. Bobyshev and A. V. Akhmetova | |
| 12 | The Ambivalence of China’s Image in the Works by A. Nesmelov and N. Baikov | 147 |
| | O. A. Buzuev, E. A. Nezhivaya and K. V. Borovikova | |
| 13 | On Materials of the Sociological Research of Youth Social Activity in the City of Tyumen | 153 |
| | E. M. Sharipova, V. V. Iudashkina and G. G. Nurpeisova | |
| 14 | Comparative Assessment of Planned and Actual Production Indicators Based on the Measure of Information Uncertainty | 165 |
| | A. S. Dulesov, O. S. Eremeeva, D. J. Karandeev and T. G. Krasnova | |
| 15 | Trade Relations Between the Russian Far East and Northeast Asia: Assessment of Institutional Factors | 177 |
| | D. A. Izotov and K. I. Tochkov | |
| 16 | Entrepreneurial Activity of the Russian Arctic Regions: Quantitative Assessments and Management | 189 |
| | E. Bazhutova, T. Skufina and V. Samarina | |
| 17 | Modeling and Forecasting GDP Production in Russia, Taking into Account Changes in the Number of Working-Age Population Caused by the Retirement Age Increasing | 201 |
| | T. Skufina, S. Baranov and V. Samarina | |
| 18 | Prospects and Challenges of Virtual Labour Market Development in Russia | 211 |
| | T. B. Rusakova and O. A. Saychenko | |
| 19 | Accreditation Examination of Developing Professional Competencies at the University: A Mathematical Model | 223 |
| | V. Spasennikov and A. Morozova | |
| 20 | Physical Health of Young People as a Factor of Human Capital Development | 229 |
| | N. Kalenikova and A. Morozova | |
| 21 | Improvement of the Operational Budgeting Model at the Industrial Enterprise | 235 |
| | L. V. Iurieva, E. R. Sinianskaia and O. V. Sinianskaia | |

| | | |
|-----------|--|-----|
| 22 | Problems and Mechanisms of Regional Policy of Russia | 243 |
| | O. Sidorenko and O. Tishutina | |
| 23 | Economy Energy Intensity: Global Trends | 251 |
| | E. Galperova, O. Mazurova and S. Steklova | |
| 24 | External and Internal Factors of Transformation of Diamond Industry of Russia | 259 |
| | E. E. Grigoryeva | |
| 25 | Generation of Innovative Ideas: Intersubjective Approach | 267 |
| | T. V. Moiseeva | |
| 26 | Open Innovation as a Business Performance Accelerator: Challenges and Opportunities for the Firms' Competitive Strategy | 275 |
| | A. A. Dokukina and I. A. Petrovskaya | |
| 27 | Competitive and Strategic Model of Evaluation of Metallurgical Enterprises | 287 |
| | E. V. Dolzhenkova and L. V. Iurieva | |
| 28 | Formation of Analytical Tools for Investment Activities Audit of Priority Development Areas | 295 |
| | S. V. Pankova and V. A. Yakimova | |
| 29 | Evaluating the Effectiveness of Projects of Global and National Economic Significance Level | 317 |
| | Aidar Puryaev and Arslan Puryaev | |
| 30 | The Reception of Foreign Languages in the History of Russian Culture | 333 |
| | E. Yu. Pershina | |
| 31 | Projections of Dynamics and Structure for the Mining of the Far East | 341 |
| | N. V. Lomakina | |
| 32 | Evaluation of the Effects of Russian–Chinese Transboundary Projects in the Far East | 351 |
| | N. V. Lomakina and A. D. Faiman | |
| 33 | Coal Sea Ports of the Russian Far East: Problems and Prospects for Development | 359 |
| | E. A. Zaoztrovskikh | |
| 34 | Certain Aspects of Legal Optimization in the Field of Surrogate Motherhood | 371 |
| | O. L. Konovalenko, G. S. Bobrova and D. G. Khabibulina | |

| | | |
|-----------|---|------------|
| 35 | Foresight System in the Structure of Criminological Forecasting of Corruption in the Business Environment in Multicultural Space of Russia | 379 |
| | G. P. Starinov, I. V. Tseveleva and E. Yu. Pershina | |
| 36 | Diagnostics of Tax Non-payment Risk of Public Companies | 391 |
| | O. Salkova, S. Kononova and D. Chistyakova | |
| 37 | Methodical Approach to Conflict Management in the System of Social and Labour Relations in the Organization | 397 |
| | E. Mitrofanova, V. Konovalova and A. Mitrofanova | |
| 38 | Pragmatic-Technological Integral for Academic Texts Build | 407 |
| | E. A. Ivanova, N. Chernova and N. V. Katakhovala | |
| 39 | The Impact of Social Media on Recruitment: Opportunities, Benefits, and Challenges | 415 |
| | A. Tikhonov and V. Konovalova | |
| 40 | Organization and Management of Resource Provision Innovation Activity | 425 |
| | L. N. Ignatova, G. I. Bolkina and G. D. Mamontov | |
| 41 | Renovation of Residential Buildings in Moscow and the Transition to Intellectual Urban Environment | 437 |
| | Svetlana Kolobova | |
| 42 | Semantical Meanings of Colours in Chinese Culture | 445 |
| | N. S. Kutuzova | |
| 43 | The Specifics of the Formation of the Temporal Competence of Students of Economic Profile | 455 |
| | O. Mordkovich, O. Samohvalova and O. Galtseva | |
| 44 | Election Technologies Crisis in Modern Russia (On the Example of the Far East) | 469 |
| | G. E. Govorukhin and O. V. Dudchenko | |
| 45 | Modification of a Role of a Transport Factor in Distribution of Production of Forest Products on Regions | 477 |
| | Natalia Antonova | |
| 46 | Methodological Foundations of Using Blue Ocean Strategy in the Course of Construction Megaprojects Implementation | 483 |
| | A. K. Orlov | |
| 47 | Comparative Analysis of Preschool Education Systems in Russia, France, and Germany | 491 |
| | M. A. Tokarev, I. B. Kosicyna and I. V. Batalov | |

| | | |
|-----------|---|------------|
| 48 | Production Functions in Economic Growth Modeling and Methods for Their Transformation | 499 |
| | De En Moon | |
| 49 | The Role of Scientific and Industrial Cooperation in Assessing the Innovative Potential of an Industrial Enterprise and the Approach to Evaluation Through Joint Patent and Licensing Activities | 507 |
| | E. Kirillova | |
| 50 | Fuzzy Cognitive Model for Analysis of Influence Relations and Industrial Cluster Identification | 517 |
| | A. Zainchkovsky and V. Borisov | |
| 51 | Development of Urban Blocks' Social Infrastructure on the Basis of Value Approach | 533 |
| | A. K. Orlov and I. Y. Chubarkina | |
| 52 | Socio-Psychological Space of Young People with Different Levels of Subjective Well-Being | 543 |
| | A. V. Bakina, S. V. Yaremtchuk, O. A. Orlova and Yu. V. Krasnoperova | |
| 53 | Digitalization of the Economy and Remote Employment of Women: An Analysis of the Situation and Development Prospects | 557 |
| | A. V. Pesha and N. V. Tonkikh | |
| 54 | University Relations: University–Industrial Relations as the Main Factor in the Development of Polytechnic Education | 569 |
| | T. Zmyzgova, E. Polyakova, K. Prokofyev, A. Chelovechkova and O. Dmitrieva | |
| 55 | Development of the Basis of the Quality Management System of an Enterprise Financial Activity on the Principle of Lean Production | 581 |
| | M. V. Kopylov, N. L. Kleymenova, I. N. Bolgova and N. N. Lobacheva | |
| 56 | Investment and Innovation Analysis of the Completeness and Complexity of the Use of Mineral Raw Materials at Mining Enterprises | 591 |
| | V. Zharov | |
| 57 | Methodology for Assessing the Impact of Merchandising on the Competitiveness of Public Catering Enterprises | 599 |
| | O. G. Vladimirova, E. N. Artemova and T. V. Zhubreva | |

| | | |
|-----------|---|------------|
| 58 | Development of Managerial Accounting in the Railway Holding | 617 |
| | Yu. V. Predeus, N. V. Predeus and P. L. Altukhov | |
| 59 | Evaluation of the Development of Rural Areas of the Region and Their Classification by the Level of Sustainability for the Purposes of Regional Policy | 629 |
| | V. I. Tikhii, E. E. Afanasieva and O. V. Koreva | |
| 60 | About the Essence of Categories “Efficiency” and “Efficiency of the Investment Project” | 643 |
| | A. Puryaev | |
| 61 | Formation of Uniform Scientific and Technological Space of the Russian Federation | 653 |
| | N. V. Petrukhina | |
| 62 | Methodological and Theoretical Approaches for Defining Structured Financial Products in a More Integrated and Globalised World | 661 |
| | N. V. Gryzunova, V. V. Kookueva and J. S. Tsertseil | |
| 63 | Improving the Reliability of the Voice Signature When It Is Used to Protect Paper Documents in the Information and Communication System of Enterprise Management | 673 |
| | A. Alyushin | |
| 64 | Relationship Between Identity Fusion and Extremist Attitudes of Young | 683 |
| | S. M. Sityaeva, S. V. Yaremchuk and V. V. Tarasenko | |
| 65 | Development of Financial Analysis Based on the Theory of Fuzzy Sets | 691 |
| | D. M. Nazarov and E. V. Dolzhenkova | |
| 66 | Statistical Study of Dynamics of the Agricultural Production of Post-Soviet Countries in the Context of Food Security | 699 |
| | M. Tolmachev, A. Tsy-pin and N. Barashov | |
| 67 | Sustainable Development of the Russian Arctic: The Role of Labor Potential | 713 |
| | E. A. Korchak | |
| 68 | The Role of the State Program “Economic Development and Innovation-Driven Economy” in the Development of Small and Medium Enterprises | 725 |
| | O. A. Filippova and Z. S. Filippov | |

| | | |
|-----------|--|-----|
| 69 | Methodical Approach to the Assessment of Food Security in the Region | 731 |
| | L. Kalinina, I. Zelenskaya and O. Vlasenko | |
| 70 | The Risk of Reducing the Material Well-Being of the Family at Childbirth | 743 |
| | S. Sukneva, A. Barashkova and K. Postnikova | |
| 71 | University Informational Ecosystem with Target Contours | 753 |
| | P. P. Ivanov and R. P. Ivanova | |
| 72 | Perspectives of Participation of the Murmansk Region in the Price-Responsive Reduction of Electric Energy and Power Consumption | 761 |
| | V. V. Pobedonostseva and G. M. Pobedonostseva | |
| 73 | Ethno-Confessional Identity: The Problem of Verification (Based on the Monitoring Data of Ethno-Confessional Relations in the Khabarovsk Krai, 2016–2018) | 769 |
| | A. Zavalishin and N. Kostiurina | |
| 74 | Method for Determining Production and Resource Use Efficiency | 783 |
| | A. F. Zverev, S. V. Trufanova and N. N. Anikienko | |
| 75 | Management System for Publication Activity of Academic and Teaching Personnel at Russian Flagship University | 793 |
| | A. Shipilova and S. Mkrtichev | |
| 76 | Northeast Asia Transport Services Market: Russian Participation Opportunities | 805 |
| | A. Bardal | |
| 77 | The Impact of Digital Technology on the Labor and the Socioeconomic Development in Modern Russia | 813 |
| | J. V. Ivanchina and Ye. A. Istomina | |
| 78 | Prospects for Development of Inter-firm Retail Chains | 825 |
| | Y. G. Larchenko and G. A. Shusharina | |
| 79 | Evaluation of Investment Attractiveness of the Project “Meat Processing Complex” | 833 |
| | M. M. Danyliv, O. A. Vasilenko, O. N. Ozherel’eva and S. V. Evdokimova | |
| 80 | The Need and Focus of Transforming Vocational Education Management at the Regional Level | 845 |
| | T. M. Gerashchenkova and C. I. Domogatskii | |

| | | |
|-----------|--|-----|
| 81 | Forecasting e-Learning Processes Using GERT Models and Process Mining Tools | 857 |
| | M. Dorrer and A. Dorrer | |
| 82 | Industrial Policy in the Region: Current State and Areas for Improvement | 867 |
| | M. M. Kulikov | |
| 83 | Training Teaching Staff as the Key Factor for Primorsky Region Economic Development | 877 |
| | I. B. Repina, E. P. Yakimovich and V. V. Nemtsova | |
| 84 | Application of Methods for Obtaining Pareto Set for Increasing Effectiveness of Managing Decisions Under Conditions of Multi-criteriality | 883 |
| | M. Yu. Karelina, S. B. Benevolenskiy, A. V. Terentyev, I. V. Arifullin and E. A. Karelina | |
| 85 | Prediction of Probability of Positive Reaction of Consumers to New Types of Enriched Food | 891 |
| | N. M. Derkanosova, G. V. Shurshikova and O. A. Vasilenko | |
| 86 | International Reserves: Evolution of Their Role During Internationalization of Modern World Currencies | 899 |
| | I. V. Kudryashova | |
| 87 | Concepts of Oeuvre and Algorithmization in Modern Engineering Education | 911 |
| | G. Akhmedyanova | |
| 88 | Improvement of the Effectiveness Evaluation System of Projects Implemented on the Public–Private Partnership Principles in the Complex Development of the Territory | 919 |
| | N. V. Voronina and S. Yu. Steksova | |
| 89 | The Impact of Economic Growth on Spatial Development of a Region | 927 |
| | V. A. Andreev, V. Varkulevich Tatiana and M. N. Arnaut | |
| 90 | Genesis of Russian Cyber Security Legal Mechanism: An Authentic or a Trend Alike Model? | 937 |
| | E. Gorian | |
| 91 | Cryptocurrency as a Threat to the Russian Financial Market Security | 951 |
| | Vyacheslav Bubnov and Tatyana Yakhno | |
| 92 | Center-Periphery Polarization of Russian Space with Development of Digital Economy | 965 |
| | C. I. Kaibicheva, I. I. Shurova and I. A. Kaibichev | |

| | |
|--|------|
| 93 Digital Sharing Economy as a Tool of Sustainable Development: Evolutionary Vector and Structural Changes | 975 |
| N. E. Buletova and E. V. Stepanova | |
| 94 Forecasting the Structure of Small-Scaled Enterprises by Types of Activities | 987 |
| O. Kochevoy, M. Chirkina and V. Roganov | |
| 95 Russian Orthodox Church in the Educational Space of the Russian Empire | 993 |
| L. Maslikhova, I. Lihoradova, I. Bocharova, E. Platonova, V. Shevchenko and B. Ershov | |
| 96 Lifestyle in a Networked Society | 999 |
| L. Perevozchikova, E. Avdeenko, A. Radugin and B. Ershov | |
| 97 Religious and Ideological Foundations of the Philosophical Awareness of the Orthodox Faith | 1007 |
| R. Dorohina and B. Ershov | |
| 98 The Education of Cadets and Psychological Aspect of the Reasons for Their Drop-Out of the National Military University | 1013 |
| V. Terziev and D. B. Solovev | |
| 99 Psychological Characteristics of Cadets from the Military Schools as Subjects of Educational Activity | 1025 |
| V. Terziev and D. B. Solovev | |
| Author Index | 1039 |

About the Editors

Denis B. Solovev is a graduate of Far Eastern State Technical University (Diploma with honours), Vladivostok, Russia. In 2011, he received a PhD in Electric Engineering. From 2011 to 2017, he took internship in the leading Russian and international universities and research laboratories: MATI - Russian State Technological University named after K.E. Tsiolkovsky, Moscow; University of Maastricht, Maastricht (Netherlands); Laboratory of the Ministry of Energy of the United States of America, Seattle and Richland, Washington; Swiss Federal Institute of Technology Zurich, Zurich; Department of Electrical and Electronic Engineering Hong Kong University of Science and Technology, Hong Kong SAR, Hong Kong; Japan Society for the Promotion of Science Faculty of Engineering, Aichi Institute of Technology, Toyota, Japan. He is currently the head of the educational program “Innovatica” (cluster of energy and electronics) at the Engineering School of the Far Eastern Federal University, Vladivostok, Russia. His research interest covers electrical energy and power technologies for smart energy conversion, integration, distribution, and utilization, including electric motors and drives, electric generators; electric vehicle technologies, vehicle-to-home, vehicle-to-vehicle, vehicle-to-grid; smart grid & microgrid technologies; sustainable & renewable energy systems; wireless power transfer technologies, and smart devices for robotics. Dr. Denis B. Solovev is a Senior Member of the IEEE, Member of IEEE Societies of IES, PES and serves as Reviewer for over 30 international journals. He has published over 150 leading papers in journals and over 40 papers in conferences in 2001-2017.

Viktor V. Savaley, PhD is a Full Professor in Economic Sciences in Department of Innovatics, Far Eastern Federal University (FEFU), School of Engineering, Russia. He has completed PhD from Far Eastern State Technical University (FESTU), Vladivostok School of Economics, in Nov., 1982. From 1992 – 1993, he served as Lecturer in Economics, Far Eastern State Technical University (FESTU), School of Economics; from 1993 – 1997, he was Assistant Professor of Economics, Far Eastern State Technical University (FESTU), Vladivostok, Russia. His fields of interest are Political Economy, Economic Development, Economic Growth,

Economic Theory, Technology, Income and Wage Inequality, Human Capital and Training, Labor Economics, and Network Economics.

Alexander T. Bekker, PhD is a Full Professor, Director of School of Engineering of Far Eastern Federal University (FEFU), Vladivostok, Russia. He has completed his Post graduate education in Leningrad Electrotechnical Institute, Leningrad in 1985–1988; received Ph.D. degree in Electrical Engineering from the Leningrad Electrotechnical Institute, Leningrad, in 1988; Post doctorate trainee in the FESTU in 2002–2005; received the Doctor of Science degree in Control Engineering from the Russian Academy of Sciences, Vladivostok, in 2006 He has completed Ph.D., Economics from Far Eastern Federal University, Russia in 2010. He has published more than 200 scientific publications (6 books, 7 booklets).

Valery I. Petukhov, PhD is a Full Professor, Deputy Director for Scientific Work of Far Eastern Federal University (FEFU), Vladivostok, Russia. In 1971, he has graduated from the Far Eastern Federal University majoring in “Oceanology”. He has completed Ph.D. in Economics from Far Eastern Federal University, Russia in 2005. From 1999 to 2011 – he served as a Director of Institute of Engineering and Social Ecology. Since 2011 till present – he is the Deputy Director of the DVFU Engineering School for Development, the Head of the department of Safety in Emergency Situations and Environment Protection. The honorary worker of higher education, the author of more than 130 published works. Has vast experience of implementation of educational and scientific projects and also experience of commercialization of technological developments and creations of the successful innovative enterprises.