

Contributors

Claude Diebolt is a CNRS Research Professor of economics, specializing in cliometrics, at the University of Strasbourg, and the current president of the CNRS, the National Committee for Scientific Research in economics and management science. He was the president of the French economic association. He is the former chair of the board of trustees of the U.S. based Cliometric Society, and the founding president of the French Cliometric Association, the founder and editor-in-chief of the journal *Cliometrica*, the author of *the Handbook of Cliometrics* (2016; with Michael Hauptert), and the book series *Frontiers in Economic History*. Diebolt was the organizer of the 8th World Congress of Cliometrics.

Leonid E. Grinin, Senior Research Professor at the Institute for Oriental Studies of the Russian Academy of Sciences in Moscow and Senior Research Professor at the Laboratory for Destabilization Risk Monitoring at the National Research University Higher School of Economics. He is the Editor-in-Chief of the journal *Age of Globalization* (in Russian), as well as a co-editor of the international journals *Social Evolution & History* and *the Journal of Globalization Studies*. Dr Grinin is the author of about 600 scholarly publications in Russian and English, including 31 monographs. These monographs include *Philosophy, Sociology, and the Theory of History* (2007; in Russian); *Productive Forces and Historical Process* (2006; in Russian); *State and Historical Process* (3 vols, 2009–2010; in Russian); *Social Macroevolution: World System Transformations* (2009; in Russian, with A. Korotayev); *Macroevolution in Biological and Social Systems* (2008; in Russian, with A. Markov and A. Korotayev); *Global Crisis in Retrospective: A Brief History of Upswings and Crises* (2010; in Russian, with A. Korotayev); *The Evolution of Statehood: From Early State to Global Society* (2011); *The Cycles of Development of Modern World System* (2011; in Russian, with A. Korotayev and S. Tsirel); *From Confucius to Comte: The Formation of the Theory, Methodology and Philosophy of History* (2012; in Russian); *Macrohistory and Globalization* (2012); *Cycles, Crises, and Traps of the Modern World-System* (2012; in Russian, with A. Korotayev); *Great Divergence and Great Convergence* (2015; with A. Korotayev); *Economic Cycles, Crises, and the Global Periphery* (2016; with Arno Tausch and A. Korotayev); *Islamism, Arab Spring, and the Future of Democracy: World System and World Values Perspectives* (2019; with Andrey Korotayev and Arno Tausch).

Antony Harper, a researcher in the general area of applied mathematics to human historical processes, also understood as quantitative history and more appropriately, using Peter Turchin's term, as cliodynamics. He is currently associated with both New Trier College and Benedictine University. His primary research interests are modeling the pattern of urbanization over recorded history, *i.e.*, from approximately 3000 BCE to the present. More currently these interests include understanding the consequences of this urbanization pattern, applying the model of punctuated equilibrium, originally propounded by Eldridge and Gould, to the pattern of urbanization, understanding why complex systems in general should exhibit the PE pattern of growth, and within the constraints of punctuated equilibrium beginning to understand the context and mechanisms that bring about punctuated change, *i.e.*, quite frankly, understanding what causes historic tipping points.

Svetlana V. Kobzeva studied her PhD in International Conflicts in Global Media System at Peoples' Friendship University of Russia under Maria M. Mchedlova. She now teaches Communications Studies at St. Tikhon's Orthodox University. Her research interests include qualitative and quantitative methods of data analysis (Big Data) of global development, including monitoring of conflicts and crises in system of international relations and global media-coverage; issues of growth and legal regulation of international information society, mass media (Internet), e-government and digital economy.

David LePoire has a PhD in Computer Science from DePaul University and BS in physics from CalTech. He has worked in environmental and energy areas for many governmental agencies over the past 25 years. Topics include uncertainty techniques, pathway analysis, particle detection tools, and physics-based modeling. He has also explored historical trends in energy, science, and environmental transitions. His research interests include complex adaptive systems, logistical transitions, the role of energy and environment in history, and the application of new technologies to solve current energy and environmental issues.

Dmitry A. Novoseltsev is CEO of the Non-Profit Partnership 'Siberian Mechanical Engineering'. He has a PhD in Technical Sciences, awarded by Omsk State Technical University, for his thesis 'Vacuum, Compressor Engineering and Pneumatic Systems', after graduating with a degree in Rocket engines and work in the field of gas turbine engineering. In addition to the main professional activity in the organization of mechanical engineering, his area of interest includes space exploration in the near and distant future, the development of space civilizations and SETI, and universal evolutionism in general. He is a regular contributor to the *Space Colonization Journal* and *Principium*.

Karine Pellier (1980–2018) was a CNRS engineer in economics, specializing in cliometrics, at the University of Strasbourg.

Sergey V. Tsirel, Russia's mining engineer, a geophysicist, a sociologist, economist and historian, Doctor of Technical Sciences, Senior Researcher at State Research Institute of Rock Mechanics and Mine Surveying (St. Petersburg), the author of more than 100 scientific works on explosives and mining, geophysics, economics, sociology and history (including Cliodynamics). His main scientific interests lie in the explosive case, geodynamics, humanities, historical sociology, macrosociology, political sociology, ethnology.

Mateusz Wajzer, University of Silesia in Katowice.

Marc Widdowson has a PhD in History from Birkbeck College, London, and an MA in Physics and M Phil in Social Anthropology both from Oxford University. He is the director of Amarna Ltd, a micro-company providing theoretical history-based research for clients in government and industry. Over the past 25 years, he has completed numerous research contracts, covering such topics as: humanitarian planning; counterinsurgency modelling; early warning of societal instability; the future of geopolitics; illicit financial networks; effects of new technology on society and social interaction; social cycles; analysing the attitudes and behaviour of populations from online data.