

From	To	Contents			
10:00	10:20	Welcome speech: Vladimir Ivanov (RAS), Andrei Smirnov (Institute of philosophy RAS), Alexandra Ochirova (UNESCO)			
10:20	11:00	Introduction: Vladimir Lepskiy, Raul Espejo, Igor Perko			
11:00	11:40	Raul Espejo and Vladimir Lepskiy : Humberto Maturana and and Vladimir Alexandrovich Lefebvre			
11:40	12:00	Vladimir Lepskiy: Reflexivity in cybernetics (philosophical and methodological analysis)			
12:00	12:20	Coffee break			
From	To	Section 1.1	Section 2.1	Section 3.1	Section 4.1
Moscow time		Moderator Vladimir Lepskiy	Ray Ison	Francesco Caputo	Jose Peres Rios
12:20	12:40	Lepskiy V. Subject-Oriented Approach - an Adequate Response to the Challenges and Threats of the 21st Century	Turnbull S. How cybernetics explains behavioural Tensegrity and its advantages for organisations	Caputo F. Lettieri M. Information and Cognition. Emerging new foundations for knowledge society	Holtham C. Espejo R. Practical wisdom for addressing contested problems
12:40	13:00	Sahoo S. A Framework for Dissecting Organisational Systems	Hallo L. Typology-based systemic governance approach to crisis management	Slavin B. Slavin A. Social features of digital media transformation	López-Garay H. González J. J. Ontological de-fragmentation: A second order cybernetical University Response
13:00	13:20	Zatuliveter Y. S. Cybernetics in the Computer Epoch of Digital Transformation	Discussion Session 1	Ototsky P. Manenkov S. Digital transformation: complexity, trends, risks and opportunities	Poikin A. Machina E. Socio-humanitarian technologies of education of the future: philosophical and methodological basis
13:20	14:20	Lunch break (Sergio Barile keynote recording)			

From	To	Section 1.1 Moderator Vladimir Lepskiy	Section 2.1 Ray Ison	Section 3.1 Boris Slavin	Section 4.1 Jose Peres Rios	
14:20	14:40	Poikin A. Philosophical and methodological analysis of ideas about governance in the information society	Shabarov V. N. Ashikhmin V. Key Provisions of the Theory of Evolution of Economic Relations Management Systems	Zatuliveter Y. S. Fishchenko E. A. Global-networked Synergy of Large Distributed Systems with Control	JOSE P. R. Education for the Twenty-First Century	
14:40	15:00	Eremchenko E. N. Zakharova A. A. Digital Earth and Hybrid Crises of XXI: Remedy or Disease?	Mokiy M., Cortes M. Indicators as a systemic problem of economic development management	Barile S. Maielli G. Simone C. Iandolo F. Linking platforms to systems theories: a conceptual framework	Díaz A. Upegui L. Torres-Cuello M. A. Estévez-Mujica C. P. Barros-Castro R. A. Systemic Design: teaching systems thinking to engineers	
15:00	15:20	Knyazeva H. The Systemic Approach to Psychosomatic Health in the Era of COVID-19 Pandemic	Discussion Session 2	Conti M. E. La Sala A. Laudando A. The holographic strategy of the industry platforms: a way to compete in complex environments	Madhav N. Baron P. Enabling Inclusive Curriculum Transformation at a Private Higher Education Institution Using a Cybernetic Approach	
15:20	15:40	Kozlov M. V. Trends of transformation of socio-economic cybernetics	Barrera R. Some eco-cyber-systemic tools that could be useful for the challenges of tomorrow	Vito P. Alaia R. Lettieri M. Analysing the social aspects of Industrial Symbiosis through the Viable Systems Approach	Lopera Molano D. López-Garay H. Design education as an organic project of ontological design: Towards the education of transition designers	
15:40	16:00	Coffee break				
16:00	16:40	Stuart Umpleby "Removing Constraints on the Advance of Cybernetics"				

From	To	Section 1.1 Moderator	Section 2.1	Section 3.1	Section 4.1
		Michael Lissack	Sandro Schindwein	Igor Perko	Alfonso Reyes
16:40	17:00	Pangaro P. Cybernetics and the AI Crisis: A Bilingual Synthesis	Khayame H. Collins K. Ison R. L. Framing matters: how does 'Anthropocene' enable and constrain cybersystemic governance of social-environmental issues?	Efimov A. R. Dubrovsky D. I. Matveev P. Philosophical and methodological foundations of post-Turing intelligent robotics	Montes F. Sarmiento O. L. Guerra Bernal A. M. De La Vega E. L. Higuera D. R. King A. C. Empowering Colombian Rural Adolescents to Advocate for Community Well-being through Citizen Science.
17:00	17:20	Lissack M., Meagher B. Cybernetic observations re scientism and COVID-19	Discussion Session 3	Roblek V. , Dimovski V. , Meško M. , Peterlin J. What can we learn from the digital transformation of social subsystems into which society was forced due to an outbreak of COVID-19?	Reyes A. A new organizational form for a transdisciplinary university - The case of Unibagué -
17:20	17:40	Christy L. Humans-Governing-the-Loop: Natural & Collective Intelligence (NCI) Meta-Science Complimenting & Regulating AI/ML	Kramarova P. Stowell F. Soft Systems Inquiry and Covid	Zorman M. Žlahtič B. Stradovnik S. Hace A. Collaborative Robotics: the Dawn of Human-Machine Interaction	Shpotya D. A. Romanov A. A. Systems engineering approaches and tools for redesigning the higher technical education system
17:40	18:00	Ivanusa T. Mulej M. Mulej N. Cybernetics of Cybernetics	Ison R. L. Schindwein S. L. The dynamics of governance failure in the context of the Anthropocene: Brazil, UK and Australia	Perko I. Hybrid Reality Data sharing concepts	Bagdasaryan N. G. systems engineering in the Modus of Cybernetics: the concept of educational organization
18:00	18:20	open discussion	Discussion Session 4	Barile S. Canestrino R. Magliocca P. Caputo F. Lettieri M. Towards a Sustainable Smart Society (SSS). Insights from Plastic free movement	Pajares J. Lopez-Paredes A. Acebes F. Poza D. Martin-Cruz N. Teaching systems thinking to deal with complexity in Project Management.

From	To	Contents			
10:00	10:40	Clas-Otto Wene "Operationally closed systems develop eigenbehaviour - Riding the Learning Curve Spinor in a Westphalian, corporate or imperial world"			
10:40	11:20	Ray Ison "What can the cybersystemic community contribute to human viability in an unfolding Anthropocene?"			
11:20	12:00	Leonidov A. Artificial Intelligence: Achievements and Perspectives			
12:00	12:20	Coffee break			
From	To	Section 1.2	Section 2.2	Section 3.2	Section 4.2
Moscow time		Moderator Viacheslav Maracha	German Bula	Aleksander Raikov	Marialuisa Saviano
12:20	12:40	Dominici P. Beyond the Black Swan. Managing Complexity: a contradiction in terms?	Schwaninger M. Coping with Complexity – How to master a Pandemic	Malinetskiy G. G. Smolin V. Intelligence as the Individual Abilities and Civilizational Capabilities Interaction	Saviano M. Perillo C. Exploring the systems thinking contribution to the modelling of Integrated Home Care
12:40	13:00	Cretu A. Modalities of control in self-organizing systems: Implications for a general theory of communication	Golofast A. Kiyashchenko L. Semiosis of Politics	Vasileva I. Ergatic system as a model of organizational psychology integration	Gnatik E. N. Artificial Intelligence Technology as the Mainstream of Third Millennium Medicine Development
13:00	13:20	Mokiy M. Philosophical and methodological bases of integration of cybernetics, system and transdisciplinary approaches	Perez Casares A. Organizing Society for the 21st Century. The Future of Democracy. Towards a New Social Contract in the Age of Cognitive Machines.	Ageev A. I. «Red lines» in Co-evolution Artificial and Natural Intelligence	Evelson L. Zingerman B. Kremenetskiy O. Shklovskiy- Kordi N. Remote health monitoring, COVID-19 and reconstruction of medical care
13:20	14:20	Lunch break			

From	To	Moderator	Section 1.2 Viacheslav Maracha	Section 2.2 German Bula	Section 3.2 Massimiliano Pirani	Section 4.2 Marialuisa Saviano	
14:20	14:40	Silva F. G. Pratschke A.	Metamodels - The 2nd order cybernetic recursion in the GIS+BIM Agency framework	Leonard A. L. Understanding the Current Environment and Assisting the Individual in a Sea of Change	Saveliev A. An extension of thyself: artificial intelligence and ethical paradox of hybrid reality	Timme E. A. A cybernetic approach to the management of sports training	
14:40	15:00	Sanzeni F.	Using Requisite Variety: a Novel Approach to Enhancement Technologies	Lavanderos L. Malpartida A. Ecological viability and cybernetic of Ayllu	Malakhova E. Ethical implications of artificial intelligence development	Moiseev V. Polar Analysis as a self-reference language of the 3rd order Cybernetics	
15:00	15:20	Dinnalli S.	Viable System Model for the design of on-demand Service Systems: A Case Study	BULA G. M. Espejo R. Institutions, states, autonomy and distributed organisation and control (the Westphalian Paradox)	Soldatova G. Chigarkova S. Intergenerational representations of egalitarianism and hierarchy in social interactions online and offline	Christian Pristipino Predictive algorithms for the management of stroke patients discharge	
15:20	15:40	open discussion		Jones Peter Theories of (Complex) Change: Multi-order anticipation in transformation narratives	Filimonov V. Money and robots: the two shadows of humanity that will destroy it	Hernandez E. Multi-level learning from COVID19 vaccination for the design and implementation of future massive programs	
15:40	16:00	Coffe break					
16:00	16:40	Michael Lissack "Slodderwetenschap Times Seven: Sloppy Science and Scientism in the COVID-19 Era"					

From	To	Moderator	Section 1.2 Michael C. Jackson	Section 2.2 German Bula	Section 3.2 Massimiliano Pirani	Section 3.4 Yuri Slovokhotov					
16:40	17:00		open discussion	Rodriguez-Ulloa R. Martínez-Vicente S. Dyner I.	Strategic Management of the Peruvian Natural Gas using Soft Systems Dynamics Methodology (SSDM)	Krinkin K. Shichkina Y. Ignatyev A.	Co-evolutionary hybrid intelligence is a key concept toward the world intellectualization	Shabrov O. F. Saschenko N. P.	Social Variety and the Crisis of Management in the Modern World		
17:00	17:20		open discussion	Louis Kauffman	Language, Reflexive Domains and Cybernetics	Chechkin A. Rozhnov A.	Artificial Intelligence and Smart Systems	Valuev A. M.	Improvement of Traffic Control on a Complex Crossroads via Sending Randomized Recommendations to		
17:20	17:40		open discussion			Medennikov V. I.	Social Implications of Implementing Artificial Intelligence in the Russian Agriculture			Vykhovanets V. S.	Notional models based on primary mental abstractions
17:40	18:00		open discussion			open discussion	Gorbunov D. V. Nesterov A. Y.			AI as a social regulator of innovation activity	Maksimov V.
18:00	18:20		open discussion	open discussion	open discussion	Raikov A. N. Pirani M.	Contradiction of modern and social-humanitarian artificial intelligence.	Sashchenko N.	The deformation of the political picture of the world and the socio-political risks of the digital era		

From	To	Contents			
10:00	10:40	Raul Espejo "Organisational Cybernetics for the Future of Humanity"			
10:40	11:20	Michael C. Jackson: Critical systems thinking and practice: what has been achieved and what needs doing			
11:20	12:00	Igor Perko: Hybrid Reality and Data Sharing concepts proposal			
12:00	12:20	Coffee break			
From	To	Section 1.3	Section 2.3	Section 3.3	Section 4.3
Moscow time	Moderator	Raul Espejo and Vladimir Lepskiy	Zoraida Mendiwelso-Bendek	Alexander Ryjov	Vojko Potocan
12:20	12:40	Espejo R. Lepskiy V. Resources, Requisite Variety and the integration of first, second and third order cybernetics into ontological cybernetics	Medvedeva T. CYBERNETICS OF LARGE SOCIAL SYSTEMS: THE EXAMPLE OF ECONOMICS	Ryjov A. Hybrid Intelligence. Main concepts and application scenarios	Hernandez-Carrion J. R. Designing new economic scenarios from the Sharing Economy Digital Revolution
12:40	13:00	Maracha V. System-Institutional Approach and the Reflexive Model of Socio-Cultural Institution in Third-Order Cybernetics	Nurbina M. Balyakin A. Taranenko S. Society deformation in the digital age	Balyakin A., Zhulego V. Depopulation trends modelling in a community with different levels of economic development	POTOCAN V. Nedelko Z. SOCIETY 5.0 AND SYSTEMS THEORIES: MANAGERIAL DILEMMAS ABOUT CORPORATE SOCIAL RESPONSIBILITY
13:00	13:20	Teslinov A. On the problems and possibilities of the vertical development of a systems approach and cybernetics	Petrovskaya Y. System analysis of the strategy of an innovative type of personality formation in the context of new technological revolution	Pyrkina O.E., Yudanov A.Y. Free-Rider Problem: Markov Model of System Self-Regulation by Means of Economic Levers	Ashikhmin V. Shabarov V. N. Global Digital Technologies Impact on Changing Role of Money in Future Society.
13:20	14:20	Lunch break			

From	To	Moderator	Section 1.3 Raul Espejo and Vladimir Lepskiy	Section 2.3 Zoraida Mendiwelso-Bendek	Section 3.3 Jerzy Jozefczyk	Section 4.3 Vojko Potocan	
14:20	14:40	Knyazeva H.	The Methodology of Construction of Active Self-Developing Media from the Standpoint of Enactivism	Nurbina M. Balyakin A. Taranenko S. Society deformation in the digital age	Lychkina N. N. Modeling of the strategic development of socio-economic systems based on hybrid simulation and ontologies	Sleptsova Y. A. Kachalov R. M. Shokin Y. V. Socio-economic ecosystem of the enterprise: concept and applications	
14:40	15:00	Malakhova E.	Problematization of the modern technogenic civilization's recursive potential	Petrovskaya Y. Features of the formation and reproduction of the innovative personality in the Northern and Arctic regions (on the example of the Republic of Karelia)	Lawless W. F. The science of interdependence for autonomous human-machine teams and systems (A-HMT-Ss)	Shtalenkova K. I. Symbolic Exchange in the Digital Era: The Value of Immaterial	
15:00	15:20	Ochoa Arias A. Jerardino-Wiesenborn B. Paucar-Caceres A.	A Systemic account on hybrid reality: Unfolding constitutive ontologies in an informational age	Korol M. P. Technocracy as a cultural imperative: pro and contra	Józefczyk J., Ławrynowicz M. On selected models and methods of robust decision-making	Matic G. Matic A. 'Inward Fractalization' for Building Adaptive Depth and Societal Resilience	
15:20	15:40	Lepskiy V. Espejo R.	Ontological cybernetics as an integrator of ontology systems in hybrid reality environments	Farfal P. Disability as a System Model in Social Sciences: Role of a 2-D Visualization	Nekrasov I., Pravdivets N. Utilizing Enterprise Historical Data in Strategic Scenario Planning for a Power Plant	Meisel C. A. Meisel J. D. Bermeo-Andrade H. Carranza L. P. Zsifkovits H. E. Social Network Analysis to Understand the Dynamics of Global Supply Chains	
15:40	16:00	Coffe break					
16:00	16:40	Paul Pangaro "Margaret's Elegant Question and #NewMacy in the 21st Century"					

From	To	Section 1.3 R. Espejo and V. Lepskiy	Section 2.3 Zoraida Mendiweso-Bendek	Section 3.3 Jerzy Jozefczyk	Section 3.4 Yuri Slovokhotov
16:40	17:00	Dubrovsky D. Lepskiy V. Raikov A. N. General Artificial Intelligence (AGI) in Context of the Self-Developing Reflective-Active Environments	Ochoa??? From 1.3	open discussion	Pyrkina O. E. Zadadaev S. A. Development of electronic money turnover control systems by means of simulation techniques
17:00	17:20	Gorbunov D. V. Nesterov A. Y. AI as a reflexive management tool for self-organized innovative ecosystems	Blanco M. M. Montes F. Borrero- Echeverry F. Solano-Blanco A. L. Gomez C. Zuluaga P. Rivera-Trujillo H. F. Rincon D. A participative systems methodology to model pest metapopulation dynamics in agricultural setting	open discussion	Afonkin V. Chebotarev P. Voting is not [good] for heaven or hell, which are symmetric
17:20	17:40	Saveliev A. Trushkova E. Reflexive mechanisms of governance of complexity for innovation and creativity	Senna Figueiredo C. Democracy: the ascent of participation and creativity	open discussion	Malkov S. About nonlinearity in social evolution
17:40	18:00	Saratxaga Arregi A. The blind spot of observations as operational tool for epistemologies of complexity	Mendiweso- Bendek Z. Participative action research natural methodology of cybernetics	open discussion	Dubois F. Fine structure of Human spectrum according to the Fractaquantum hypothesis
18:00	18:20	Sukharev A. V. The category of image as an ontological unit of the hybrid reality description	open discussion	open discussion	Balabanov A. V. Kasimov A. M. MNM-methodology of Developing Microfluidics

From	To	
10:00	10:30	Vladimir V. Ivanov
10:30	10:50	Albert Efimov
10:50	11:30	Novikov Dmitry, Mikhail Belov Optimal Enterprise: Complex Activity and Mathematics of
11:30	12:10	Khrennikov A. Social Fröhlich condensation: Preserving societal order through sufficiently intensive information pumping
12:10	12:30	Coffee break

From	To	Section 3.4	Section 4.4
Moscow time		Moderator Yuri Slovokhotov	Kernan M. A.
12:30	12:50	Neretin I. S. Echenique V. Medieval global warming Slovokhotov Y. and feudal fragmentation L.	Westermann C. The Logics of Initiation: cybernetics and art
12:50	13:10	Kleparskii V. G. Kleparskaya E. V. The development of region: the background and the activity of regional authorities.	Koblyakov A. Transdimensional Relationships and the Metasystem Approach - the New Resources of Cognition
13:10	13:30	Krivosheev O. I. Spoiler equilibrium as a macroeconomic self-regulation mechanism and overcoming of its failures.	De la Cerda O. TWO PATHS TO ONE Holtham C. ENACTIVE LEARNING Kernan M. A. DESTINATION?

13:30 14:30

Lunch break

From	To	Section 3.4 Moderator Yuri Slovokhotov	Section 4.4 Tom Sholte
14:30	14:50	Ivanov O. Kolobov A. Leonidov A. Nechitailo V. Pilnik N. Radionov S. Serebryanniko va E. Stankevich I. Agent-based Model of scientific results development	Di Stasi M. Pratschke A. The cybernetic perspective in the design process: homeostasis in architecture
14:50	15:10	Quehenberger R. A higher-dimensional dynamic representation for complex systems	Scholte T. Amplifying Second Order Observation through the Theatre of Levels
15:10	15:30	Chairez I. Guarneros I. Bugriy G. Mukhamedov A. Prud V. Andrianova O. G. Sleptsov E. Chertopolokho v V. On the Differential Neural Network Toolbox Design for Identification, Estimation and Control	Attwell C. J. Dancing into Being: Honouring the Collective Intelligence of Living Systems
15:30	15:50	Koltsov S., Ignatenko V. Application of deformed entropy concept to the problems of topic modeling	inteachive communitation
From	To		
15:50	16:10	Meet the editors - Congress publishing options	
16:10	16:30	Congress conclusions and future work	

Time conversions

Moscow time	Sydney (AEST)	Nanjing (CST)	Maribor (CEST)	London (BST)	Brasil (BRt)	Toronto, NY (EST)	Bogota (COL)	Vancouver (PDT)
10:00	17:00	15:00	09:00	08:00	04:00	03:00	02:00	00:00
10:40	17:40	15:40	09:40	08:40	04:40	03:40	02:40	00:40
11:20	18:20	16:20	10:20	09:20	05:20	04:20	03:20	01:20
12:00	19:00	17:00	11:00	10:00	06:00	05:00	04:00	02:00
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13:00	20:00	18:00	12:00	11:00	07:00	06:00	05:00	03:00
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17:20	00:20	22:20	16:20	15:20	11:20	10:20	09:20	07:20
17:40	00:40	22:40	16:40	15:40	11:40	10:40	09:40	07:40
18:00	01:00	23:00	17:00	16:00	12:00	11:00	10:00	08:00