

From	To	Simpkins Lee Theatre Moderated by Igor Perko, Alfonso Reyes			
09:15	10:00	Registration			
10:00	10:10	Welcome speech: Raul Espejo			
10:10	10:40	Introduction: Igor Perko, Alfonso Reyes			
10:40	11:40	<u>Keynote: Juliana Mariano Alves</u> <u>Water Governance for Sustainability: What Do We Need for a Viable Future?</u>			
11:40	12:00	Coffee break			
From	To	Mary O'Brien Room 3.2 CyberSystemic examination of Interactions, relationships, and agents of change Moderated by Igor Perko and Jerzy Josefczyk	Simpkins Lee Theatre 2.3 A Shift in paradigm: how the Viable System Model shapes collaborative, self-governing Moderated by Angela Espinosa and Jon Walker	Talbot Hall 2.1 Systemic Governance and Management Moderated by Markus Schwaninger and Sandro Schlindwein	
12:00	12:20	Igor Perko, Jerzy Józefczyk Interactions – CyberSystemic perspectives	Angela Espinosa, Jon Walker From viability supporting competitiveness to sustainable self-governance and collaboration, as the basis for a post-capitalistic society	Xinfang Wang, Weize Wu, Yingying Feng, Bing Xu Participatory system mapping for emissions reduction of food cold chain	
12:20	12:40	Seshadri Ramaswamy Cybernetics of Open systems evolution– reciprocal self-organization of sensation/action and cognition/thought pairs	David Cooper New Horizons for the Viable System Model	Johannes Klinglmayr Breaking up system boundaries via individualized decision support systems	
12:40	13:00	Thirachai Chiraphacharacharoenkun “Cognition”, “Consciousness” and “Cognitive Consciousness”	Stephen Harwood Ontological Cybernetics Revisited	Véronique Gignoux-Ezratty Supervision of Organizational Adaptation through Systems Thinking	

13:00 14:00

Lunch break

14:00 15:00		Keynote: John Beckford Still in Torment: (Re)Designing Freedom			
From	To	Mary O'Brien Room	Simpkins Lee Theatre	Talbot Hall	
		3.2 CyberSystemic examination of Interactions, Moderated by Igor Perko and Jerzy Josefczyk	2.3 A Shift in paradigm: how the Viable System Moderated by Angela Espinosa and Jon Walker	2.1 Systemic Governance and Management Moderated by Markus Schwaninger and Sandro Schindwein	
15:00	15:20	Vasja Roblek, Judita Peterlin, Vlado Dimovski The emergence of new capabilities for learning and understanding the work with cobots in healthcare	Wolfgang Lassl, Jens Martignoni The final clue of viability and sustainability ... Is it hidden in Dorian Gray's picture?	Bojan Žlahtič, Peter Kokol, Grega Žlahtič, Milan Zorman Mapping the Evolution of Systemic Governance and Management: A Bibliometric Analysis	
15:20	15:40	Vojko Potocan Organisational interactions – From Industry 4.0 to Industry 7.0 and beyond	James Fox Spaces of dissent and recounting variety in a democratic beverage company.	Houda A. Khayame, Kevin B. Collins, Ray L. Ison Appreciating systemic governing of humanbiosphere relationships in the Anthropocene: Scotland's River Dee	
15:40	16:00	Faisal L. Kadri On The Cybernetics of Humour: Can Humour Predict Individual Personality Dimensions?	Stephen Brewis Enhancing Life Beyond Subsistence: Applying Stafford's VSM Model to manage Perception and Active Inference to increase model evidence by reducing surprise.	Jonathan Randall Cultural Challenges in the Adoption of Data-Driven Decision Making	
16:00	16:20	Gandolfo Dominici Eigenform and brand value cocreation	Peter Tuddenham Navigating the Waves of Change: Advancing Ocean Literacy through a Recursive, Viable System Model	Peng Jiang Analysis of the collaborative innovation effect of China's "dual pilot" policy	
16:20	16:40	Louis Klein Realising the humanising organisation	Angus Jenkinson A VSM governance tool and agricultural paradigm change for climate and ecology	Markus Schwaninger, Stefan Ott Coping with Global Warming: A Systemic Design, Scope, and Scale	

16:40 17:00

Coffee break

		Mary O'Brien Room	Simpkins Lee Theatre	Talbot Hall
From	To	3.2 CyberSystemic examination of Interactions, Moderated by Igor Perko and Jerzy Josefczyk	WORKSHOP	2.1 Systemic Governance and Management Moderated by Markus Schwaninger and Sandro Schlindwein
17:00	17:20	Petter Øgland, Gary Evans A New Methodology in Support of Critical Systems Thinking: Critical Systems Intervention (CSI)	<p><u>VSM Criteria for a post capitalistic society: Practical implications</u></p> <p><u>Moderated by Angela Espinosa, Jon Walker, Juliana Mariano Alves, Allenna Leonard, Angus Jenkinson, and Peter Tuddenham</u></p>	Roberta R.A. de Castro, Aquiles Simoes, Sandro L. Schlindwein A framework for systemic governance of social-ecological systems in the Brazilian Amazon
17:20	17:40	Teodora Ivanuša, Matjaž Mulej, Blaž Markelj At the Crossroad of Information Security and Inverse Cybernetics: The complexity of interactions / relationships between Cyberneticians versus Cybersecurity Experts		William J. Reckmeyer Better Governance for a Better World in the Anthropocene: A CyberSystemic Perspective
17:40	18:00	open discussion		Maja Borlinič Gačnik , Andrej Škraba, Črtomir Rozman Impact of rising temperatures on viticultural biomass in Slovenia: A System Dynamics Approach
18:00	18:20			open discussion

From	To	Simpkins Lee Theatre Moderated by Igor Perko, Alfonso Reyes			
09:00	10:00	Keynote: Sergio Barile Value sharing - new approach			
		Mary O'Brien Room 2.2 Exploring the nexus of ecology, society, and Moderated by Marialuisa Saviano and Francesco Caputo	Simpkins Lee Theatre 1.2 Enhancing democratic processes Moderated by José Perez Rios and Raul Espejo	Talbot Hall 3.1 AI in the environment of uncertainty Moderated by Yingjie Yang and Massimiliano Pirani	
10:00	10:20	Taja Macek, Tadeja Jere Jakulin Multicriteria Model of Shore Excursions Sustainability in the Frame of System Dynamics	Jose Perez Rios Structural design and democracy. The Viable Systems Model in the face of Artificial Intelligence advances.	Massimiliano Pirani, Alessandro Cucchiarelli, Luca Spalazzi Blockchain and the unexpected: taming complexity in sustainable supply chains	
10:20	10:40	Marialuisa Saviano, Majid Heidari, Daniele Verderese Sustainable Tourism Governance: a systems thinking Triple Helix approach	Raul Espejo Citizenship and design of structural mechanisms	Aleksandr Raikov, Meng Guo Photonic AI for embracing the uncertainty of the environment	
10:40	11:00	Samuel Plečko, Barbara Bradač Hojnik, Polona Tominc The Role of Multidimensional Digital Transformation for Sustainable Business	Rafael Rodríguez de Cora, Ricardo Barrera School of Democracy with Complexity and Cyber Systemic approach	Milan Zorman, Aldo Offenheimer, Bert Pluymers, Juan Pérez Rodríguez, Dionysios Panagiotopoulos, Bojan Žlahtič, Tanja Botić, Aleš Holoba EU.FFICIENT - Shaping a Community of AI Expert Facilitators in EU	
11:00	11:20	Coffee break			

		Mary O'Brien Room		Simpkins Lee Theatre		Talbot Hall	
From	To	2.2 Exploring the nexus of ecology, society, and Moderated by Marialuisa Saviano and		1.2 Enhancing democratic processes Moderated by José Perez Rios and Raul Espejo		3.1 AI in the environment of uncertainty Moderated by Yingjie Yang and	
11:20	11:40	Tadeja Jere Jakulin, Vid Jakulin	<u>Complex Systems Modelling: A Systems Approach in Tourism and Criminal Law</u>	Clas-Otto Wene, Raul Espejo	<u>Double Closed Non-Trivial Machines: from Learning Systems to Nation States and Global Decarbonising</u>	Naiming Xie	<u>Understanding of grey information and grey system modelling</u>
11:40	12:00	Anna Roberta Gagliardi, Luca Carrubbo, Antonietta Megaro	<u>From Platformization to Community-Centric Resilience: Understanding the Sharing Economy through System Thinking</u>	Vladimir Lepskiy	<u>Enhancing active citizenship in self- developing polysubject environments (ontological approach)</u>	Yifan Zhang, Wenping Wang	<u>Study on the Influencing Factors of Carbon Intensity in Chinese Regional Manufacturing Industry Based on Grey BO- XGBoost</u>
12:00	12:20	Marialuisa Saviano, Anna Di Vernieri	<u>Synergies between sustainability and digitization in the Italian recovery and resilience plan for healthcare</u>	Germán Bula Escobar	<u>Colombia 2023: democracy, responsibility, and decentralisation</u>	Mingli Hu, Mengqi Wu, Wenjie Liu	<u>A novel seasonal grey prediction model with external impacts and its application</u>
12:20	13:00	A festschrift in honour of Professor Raul Espejo					
13:00	14:00	Lunch break					

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14:00	14:20	Žan Domanjko, Igor Perko Holistic perspective of AI based inventory forecasting – implications on business user experience	Lowell Christy American Cybernetic Experiment in Governance: Shaping the Conversational Ecosystem for Exceptionalism	Sifeng Liu, Wei Tang, Lianyi Liu, Yingjie Yang Multiple Uncertainty Data Fusion and Reliability Growth Model for Complex Equipment
14:20	14:40	Marialuisa Saviano, Mario Testa, Rita Klapper, Adriana Apuzzo From experiential learning to eco-systems awareness: a Sustainable Outdoor Training approach	Valarie Lamont Journey Upstream to the Wellsprings of Democracy and its Revitalization	Peixin Li, Yaoguo Dang GAX-based Time Series Hierarchical Clustering Algorithm
14:40	15:00	Claudio Del Regno, Mirko Perano, Francesco Caputo, Rosario Bianco Decoding the World 5.0: A system thinking overview for interconnecting Society 5.0 and Industry 5.0	Sujay Dinnalli, Ushma Desai Change management supported by dialogue-building and the Viable System Model – case study of an Indian firm.	Tingting He, Yaoguo Dang An interval grey number risk decision model for venture capital project selection
15:00	15:20	Francesca Igini, Arturo Cafaro, Mario Calabrese Cybernetic Strategies: Fashion's Sustainable Supply Chain Evolution with Ship-then-Shop	Robert M. Cutler The Soviet Regime under Khrushchev and Brezhnev: Complex-System Preparation for Failure	Yun Cao, Lele Guo, Ning Cao, Peng Jiang A new grey multivariable dummy variable model for predicting marine disaster losses
15:20	15:40	Coffee break		

Mary O'Brien Room			Simpkins Lee Theatre		Talbot Hall	
2.2 Exploring the nexus of ecology, society, and economics in organizational governance Marialuisa Saviano and Francesco Caputo			Symposium on CyberSystemic Organisations		3.1 AI in the environment of uncertainty Moderated by Yingjie Yang and	
15:40	16:00	Paolo Barile, Guido Iandiorio, Clara Bassano Reinterpreting the Art of Selling: a Consonance-based Approach for Vendor Chatbots	Markus Schwaninger	Conversations on Recursive organisations	Zi-Sheng Wang	Forecasting the marine “3E” systems based on new grey multivariable prediction model
16:00	16:20	Tachia Chin, Zhisheng Li Climate Governance Action and Corporate ESG Performance: Evidence from China			Michail Kozlov	Mandatory features and differences of intelligences. Waves of indoctrination.
16:20	16:40	Silvia Baiocco, Paola Maria Anna Paniccia, Roberto Basili, Danilo Croce Integrating artificial intelligence and machine learning into tourism destination management	Allenna Leonard	Conversations on Politics VS Democracy	Nikolai Razin	AI: irrevocable shift from problem solving-making to problem complexity analyzing
16:40	17:00	Pietro Vito, Gerardo Bosco, Mario Calabrese, Raffaele D’Amore, Francesca Iandolo, Antonio La Sala, Giuliano Maielli, Alessia Sciarrone Enhancing Efficiency and Sustainability through Systemic Thinking in Industrial Symbiosis initiatives			<p style="text-align: center;">Conversations on Changing the Institutional Landscape to Prepare for Systemic Change</p> <p style="text-align: center;">Moderated by Lowell Christy, Michele Friend, Louis Klein, and Valarie Lamont</p>	
17:00	17:20	Ineza Gagnidze A Circular Economy Business Model to Balance the Pillars of Sustainability				
17:20	17:40	Pooyan Sedarati, Tadeja Jere Jakulin, Francisco Manuel Dionísio Serra Analyzing Smart Tourism Ecosystems for Sustainable Development: A System Dynamics Approach				

19:00 21:00

Formal WOSC 2024 Congress Dinner (casual elegant dressing code)

From	To	Simpkins Lee Theatre Moderated by Igor Perko, Alfonso Reyes			
09:00	10:00	Keynote: Jason Jixuan Hu - A teaching toolset for learning the CyberSystemics			
		Mary O'Brien Room	Simpkins Lee Theatre	Talbot Hall	
From	To	1.1 Citizenship, as a property that emerges from an interactive process Moderated by Allenna Leonard and Zoraida Mendiwelso Bendek	4.1 Cybernetic and Systems Education: Past, Present and Future Moderated by Matthew Holt and William Reckmeyer	3.1 AI in the environment of uncertainty Moderated by Massimiliano Pirani	
10:00	10:20	Zoraida Mendiwelso-Bendek, Rebecca Michell Herron Community-Based Research and its connections with Systems Thinking and Cybernetics	William J. Reckmeyer Cybernetics and Systems Education: Critical Formative Activities During Its First Quarter-Century (1967-1992)	Baohua Yang, Kegang Li The influence of standardization methods on the stability of grey correlation rank	
10:20	10:40	Agustin Domingo F. Varela and Ch. Taylor: cyber systemic and political philosophy keys to identity	Matthew Holt Cybernetic Education for the 21st Century: The School of Cybernetics at the Australian National University	Bojan Žlahtič, Grega Žlahtič, Milan Zorman, Peter Kokol Explainable artificial intelligence and Data canyons in the context of cybernetics	
10:40	11:00	Maruša Lubej, Martin Dolezal, Katja Kerman, Marija Javornik, Monika Lamot, Boris Vežjak, Teodor Petrič and Andrej Kirbiš The impact of affective polarization on political participation: a systematic review	Samuil Gorelik, Alexey Grudin, Michail Kozlov, Alexander Khopyorsky Formation of personal digital image while the educational process is based on "hybrid intelligence" technology	Wenjie Liu Variable neighbourhood search embedded perturbation mechanism for multi-depot vehicle routing problem with simultaneous delivery & pickup, and time limit	
11:00	11:20	Piero Dominici Technocracy or Democracy? Educating Citizens in the Era of Automation and Simulation	Ramsés Fuenmayor, Alfonso Reyes A Holistic foundation for teaching-learning games	Open discussion	
11:20	11:40	Coffee break			

		Mary O'Brien Room	Simpkins Lee Theatre	Talbot Hall
From	To	1.1 Citizenship, as a property that emerges from an Moderated by Allenna Leonard and Zoraida Mendiwelse Bendek	4.1 Cybernetic and Systems Education: Past, Present and Moderated by Matthew Holt and William Reckmeyer	
11:40	12:00	Allenna Leonard Using the Viable System Model to Assist Active Citizenship	Clive Holtham Reshaping 21st century higher education to underpin cybernetic and systems thinking	<p style="text-align: center;">Workshop Creating Pathways to Systemic Change</p> <p style="text-align: center;">Moderated by Lowell Christy, Valarie Lamont, and Louis Klein</p>
12:00	12:20	El Wilkinson-Cunningham Active Withernsea: a community development project in a hyper local place with a systems thinking focus	Qihui Dai The Effects of Gamified Self-Regulation with Virtual Rewards for Self-Learning Performance	
12:20	12:40	Michèle Friend, Martine Legris Citizen's Panel: 4 innovations	Hernán López-Garay The Role of Art in the (Re)Education of Systems Thinkers	
12:40	13:00	open discussion	Amanda Gregory Systems Thinking in the Professional Context: Short Exposure for Long-Term Impact	
13:00	13:20		Rita Klapper Past meets future: AI in transformational education - lessons from German children tv	
13:20	14:20		Lunch break	

Simpkins Lee Theatre

14:20 15:20

Keynote: Alfonso Reyes Exploring New Organizational Forms for WOSC

15:20 16:20

Panel: Meet the editors, moderated by Francesco Caputo
Igor Perko, *Kybernetes*, CyberSystemic examinations of collaborative ecosystems
Matthew Holt, William Reckmeyer and Alfonso Reyes, *Systems research and behavioural science*, Cybernetics-Systems Academic Programs
Manlio Del Giudice, *Journal of Knowledge Management*, special feature
Igor Perko, Alfonso Reyes and Raul Espejo, *Emerald monography*, Shaping Collaborative Ecosystems for Tomorrow
Vojko Potočan, Massimiliano Pirani, *Systems (open access)*, CyberSystemic Transformations for Social Good
Francesco Caputo, *Journal of Intellectual Capital*, special feature

16:20 17:00

Open round table CyberSystemic organisations: plans for the future, proposals for cooperation
Rafael Rodríguez de Cora - SESGE,
Matthew Holt - School of Cybernetics,
Naiming Xie - IAGSUA,
Francesco Caputo - ASVSA
Moderated by Alfonso Reyes and Igor Perko

17:00 17:20

Congress Closure - Awards for the best authors

17:20 17:40

Coffee break

17:40 18:20

WOSC board of directors meeting