

| From  | To    | Simpkins Lee Theatre<br>Moderated by Igor Perko, Alfonso Reyes   |  |  |
|-------|-------|--|--|--|
| 09:15 | 10:00 | <b>Registration</b>  |  |  |
| 10:00 | 10:10 | <b>Welcome speech: Raul Espejo</b>   |  |  |
| 10:10 | 10:40 | <b>Introduction: Igor Perko, Alfonso Reyes</b>   |  |  |
| 10:40 | 11:40 | <b><u>Keynote: Juliana Mariano Alves</u></b><br><b><u>Water Governance for Sustainability: What Do We Need for a Viable Future?</u></b>                          |  |  |
| 11:40 | 12:00 | <b>Coffee break</b>  |  |  |
| From  | To    | Olga Pocock Room<br>3.2 CyberSystemic examination of Interactions, relationships, and agents of change<br>Moderated by Igor Perko and Jerzy Josefczyk            | Simpkins Lee Theatre<br>2.3 A Shift in paradigm: how the Viable System Model shapes collaborative, self-governing<br>Moderated by Angela Espinosa and Jon Walker                               | Mary O'Brien Room<br>2.1 Systemic Governance and Management<br>Moderated by Markus Schwaninger and Sandro Schindwein                             |
| 12:00 | 12:20 | Igor Perko, Jerzy Józefczyk<br><a href="#"><u>Interactions – CyberSystemic perspectives</u></a>  | Angela Espinosa, Jon Walker<br><a href="#"><u>From viability supporting competitiveness to sustainable self-governance and collaboration, as the basis for a post-capitalistic society</u></a> | Xinfang Wang, Weize Wu, Yingying Feng, Bing Xu<br><a href="#"><u>Participatory system mapping for emissions reduction of food cold chain</u></a> |
| 12:20 | 12:40 | Seshadri Ramaswamy<br><a href="#"><u>Cybernetics of Open systems evolution– reciprocal self-organization of sensation/action and cognition/thought pairs</u></a> | David Cooper<br><a href="#"><u>New Horizons for the Viable System Model</u></a>  | Johannes Klinglmayr<br><a href="#"><u>Breaking up system boundaries via individualized decision support systems</u></a>                          |
| 12:40 | 13:00 | Thirachai Chiraphacharach aroenkun<br><a href="#"><u>“Cognition”, “Consciousness” and “Cognitive Consciousness”</u></a>  | Stephen Harwood<br><a href="#"><u>Ontological Cybernetics Revisited</u></a>  | Véronique Gignoux-Ezratty<br><a href="#"><u>Supervision of Organizational Adaptation through Systems Thinking</u></a>                            |
| 13:00 | 14:00 | <b>Lunch break</b>   |  |  |

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

16:40 17:00

**Coffee break**

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

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

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

| From  | To    | Olga Pocock Room<br>2.2 Exploring the nexus of ecology, society, and<br>Moderated by Marialuisa Saviano and<br>Francesco Caputo   | Simpkins Lee Theatre<br>1.2 Enhancing democratic processes<br>Moderated by José Perez Rios and Raul Espejo   | Mary O'Brien Room<br>3.1 AI in the environment of uncertainty<br>Moderated by Yingjie Yang and<br>Massimiliano Pirani  |
|-------|-------|---|--|--|
| 14:00 | 14:20 | Žan Domanjko,<br>Igor Perko<br><a href="#">Holistic perspective of AI based inventory forecasting – implications on business user experience</a>  | Christy Lowell<br><a href="#">American Experiment in Governance: Shaping the Conversational Ecosystem for Exceptionalism</a>                                   | Sifeng Liu,<br>Wei Tang,<br>Lianyi Liu,<br>Yingjie Yang<br><a href="#">Multiple Uncertainty Data Fusion and Reliability Growth Model for Complex Equipment</a> |
| 14:20 | 14:40 | Marialuisa Saviano,<br>Mario Testa,<br>Rita Klapper,<br>Adriana Apuzzo<br><a href="#">From experiential learning to eco-systems awareness: a Sustainable Outdoor Training approach</a>            | Valarie Lamont<br><a href="#">Journey Upstream to the Wellsprings of Democracy and its Revitalization</a>  | Peixin Li,<br>Yaoguo Dang<br><a href="#">GAX-based Time Series Hierarchical Clustering Algorithm</a>   |
| 14:40 | 15:00 | Claudio Del Regno,<br>Mirko Perano,<br>Francesco Caputo,<br>Rosario Bianco<br><a href="#">Decoding the World 5.0: A system thinking overview for interconnecting Society 5.0 and Industry 5.0</a> | Sujay Dinnalli,<br>Ushma Desai<br><a href="#">Change management supported by dialogue-building and the Viable System Model – case study of an Indian firm.</a> | Tingting He,<br>Yaoguo Dang<br><a href="#">An interval grey number risk decision model for venture capital project selection</a>                               |
| 15:00 | 15:20 | Francesca Igini,<br>Arturo Cafaro,<br>Mario Calabrese<br><a href="#">Cybernetic Strategies: Fashion's Sustainable Supply Chain Evolution with Ship-then-Shop</a>                                  | Robert M. Cutler<br><a href="#">The Soviet Regime under Khrushchev and Brezhnev: Complex-System Preparation for Failure</a>                                    | Yun Cao,<br>Lele Guo,<br>Ning Cao,<br>Peng Jiang<br><a href="#">A new grey multivariable dummy variable model for predicting marine disaster losses</a>        |
| 15:20 | 15:40 | <b>Coffee break</b>   |  |  |

| Olga Pocock Room   |       |   | Simpkins Lee Theatre  |                       |   | Mary O'Brien Room   |  |  |
|--|-------|---|---|-----------------------|---|---|--|--|
| 2.2 Exploring the nexus of ecology, society, and economics in organizational governance<br>Marialuisa Saviano and Francesco Caputo |       |   | Symposium on CyberSystemic Organisations  |                       |   | 3.1 AI in the environment of uncertainty<br>Moderated by Yingjie Yang and   |  |  |
| 15:40  | 16:00 | Paolo Barile,<br>Guido Iandiorio,<br>Clara Bassano  | <a href="#">Reinterpreting the Art of Selling: a Consonance-based Approach for Vendor Chatbots</a>                    | Markus<br>Schwaninger | Conversations on<br>Recursive organisations | Zi-Sheng Wang   | <a href="#">Forecasting the marine "3E" systems based on new grey multivariable prediction model</a> |  |
| 16:00  | 16:20 | Tachia Chin,<br>Zhisheng Li   | <a href="#">Climate Governance Action and Corporate ESG Performance: Evidence from China</a>                          |                       |   | Michail Kozlov  | <a href="#">Mandatory features and differences of intelligences. Waves of indoctrination.</a>        |  |
| 16:20  | 16:40 | Silvia Baiocco,<br>Paola Maria<br>Anna Paniccia,<br>Roberto Basili,<br>Danilo Croce   | <a href="#">Integrating artificial intelligence and machine learning into tourism destination management</a>          | Allenna<br>Leonard    | Conversations on<br>Politics VS Democracy   | Nikolai Razin   | <a href="#">AI: irrevocable shift from problem solving-making to problem complexity analyzing</a>    |  |
| 16:40  | 17:00 | Pietro Vito,<br>Gerardo Bosco,<br>Mario Calabrese,<br>Raffaele D'Amore,<br>Francesca Iandolo,<br>Antonio La Sala,<br>Giuliano Maielli,<br>Alessia Sciarrone | <a href="#">Enhancing Efficiency and Sustainability through Systemic Thinking in Industrial Symbiosis initiatives</a> |                       |   | <p style="text-align: center;"><b>Conversations on<br/>Changing the Institutional Landscape to<br/>Prepare for Systemic Change</b></p> <p style="text-align: center;"><b>Moderated by Lowell Christy, Michele Friend, Louis Klein, and Valarie Lamont</b></p> |  |  |
| 17:00  | 17:20 | Ineza Gagnidze  | <a href="#">A Circular Economy Business Model to Balance the Pillars of Sustainability</a>                            |                       |   |   |  |  |
| 17:20  | 17:40 | Pooyan Sedarati,<br>Tadeja Jere Jakulin,<br>Francisco Manuel<br>Dionísio Serra  | <a href="#">Analyzing Smart Tourism Ecosystems for Sustainable Development: A System Dynamics Approach</a>            |                       |   |   |  |  |
| 19:00  | 21:00 | <b>Formal WOSC 2024 Congress Dinner (casual elegant dressing code)</b>  |   |                       |   |   |  |  |

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



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

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**