

69th Annual Meeting of the International Society for the Systems Sciences (ISSS 2025)

Birmingham, United Kingdom
11-15 July 2025

ISBN: 979-8-3313-3675-2

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2025) by International Society for the Systems Sciences (ISSS)
All rights reserved.

Printed by Curran Associates, Inc. (2026)

For permission requests, please contact International Society for the Systems Sciences (ISSS)
at the address below.

International Society for the Systems Sciences (ISSS)
47 Southfield Road
Pocklington, York
YO42 2XE, United Kingdom

Phone/Fax: +44 (0)1759 302718

enquiryisss@gmail.com

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

2025 PLENARY SPEAKER

Deep Systems Thinking & the Ecology of Human Experience.....	1
<i>Christopher Chase</i>	
Innovating Applied Systemic Leadership Theory and Practice Through a Practitioner-Based MSC Programme	28
<i>Rachel Lilley, Juanita Bernal-Alvarado</i>	
Planning Organizations in Relation to Their Purposes	30
<i>Ben Sweeting</i>	

2025 SYSTEMIC LEADERSHIP

Critical Systems Intervention: A Way to Operationalise Critical Systems Leadership in Complex Organisations.....	39
<i>Petter Øgland, Gary Evans</i>	

2025 SYSTEMS THINKING

The Resilience in Precarious Urban Spaces: Young Male Migrants in Informal Urban Housing	53
<i>Abel Mavura</i>	
The Shifter Distribution Model with Gödelian Core: Structural Drift and Symbolic Misalignment in Complex Systems	72
<i>Renard Betancourt</i>	
Creating Pathways to the Future.....	79
<i>Mehaad Tegally</i>	
Tackling the Pernicious Issue of Human Trafficking Through a Systems Theory Approach	92
<i>Veronika Kolesnikov</i>	

2025 AGRICULTURE AND FOOD SYSTEMS

Exploring the Value of Critical Systems Thinking in Food Systems Interventions: The Case of RAISE-FS.....	101
<i>Yu-Jieh Lin</i>	
Factor Analysis of the Processes of Planting, Selection, Packaging, and Transport of Guava in Michoacán	116
<i>I. J. López Valle, E. Oliva López, C. León Puertos, C. G. León Vega</i>	

2025 AUGMENTED INTELLIGENCE

The Role of Similarity in Complex Systems and System Collaboration: A Framework for Balancing Homogeneity and Heterogeneity	122
<i>Yunlong Xu, Xiuquan Deng</i>	

All Life Communicates: Indigenous Custodians ‘Know It’, What Can We Do About It? Why Does it Matter that Indigenous Knowledge Systems are (Largely) Ignored? 137
Janet McIntyre-Mills

Hydro-Economic Framework Synopsis..... 152
Noah Rappaport

A Game Theory Based Information and Decision Support System the Digitalization of Rapoport's Taxonomy on 2X2 Games 166
Florian Maurer

2025 BUILT ENVIRONMENT

Internet for All and Technological Development..... 181
Cirilo G. L. Vega, Cuauhtémoc L. Puertos, Isela J. L. Valle

2025 ECOLOGY OF HUMANESS

The Ecology of Humanness: A Speculative Inquiry Through Moomin Philosophy..... 190
Teija Lehmuskoski

Top of the South Men's Network an Exploration of Distributed Leadership..... 202
Victor MacGill

All for One and One for All: Action Learning Through Multispecies Hubs..... 212
Janet McIntyre-Mills, P. Lethole, M. Makaulule, I. Widianingsih, R. Riswanda

2025 EDUCATION AND KNOWLEDGE SHARING

The WeRo's Journey and the Art of Holding Space Creating Conditions for Collaborative Learning Forests 227
Barbara Widhalm

Exploring Poly-Perspectivism: Using Multiple Perspectives for a More Comprehensive Understanding of Reality..... 240
John Challoner

From SECI to BIMA: Toward Regenerative Knowledge Management Through Bridging Intelligence, Mindfulness, and Awareness..... 252
Rudolf Wirawan

2025 POLICY AND GOVERNANCE

The Organization as a Three-Dimensional Learning Matrix 271
Elisabeth Dostal

A Conceptual Systems Approach to Policy Product Integration to Overcome Policy Fragmentation..... 288
Guswin De Wee

Quantum Governance: Designing Decision Systems for the Age of Uncertainty 308
R. Eva King

What Actions Can We Take to Shift from Competition to Collaboration and to Foster a Sense of Harmony/Unity in Resolving Our Conflicts? 315
Yiannis Laouris, Marcus Hallside, Janet McIntyre-Mills

2025 SHARED THEORETICAL FOUNDATIONS

There is No Common Basis for Integrating Analyses of Hierarchy in Nature. Or is There? How O-Theory Contributes to a Theory of Hierarchic Order..... 355
G. A. J. M. J. O. Akkerhuis

A Framework for Comparing Systems Theories 367
Lynn Rasmussen

2025 SPACE EXPLORATION AND DEVELOPMENT

The Need for a Systemic Thinking-Based Intervention in the Brazilian Space Program in the New Space Era..... 374
Bruno N. Vaz, Lucas N. Abdala, Carmen Belderrain, Níssia C. R. Bergiante

2025 SOCIAL ECOLOGICAL SYSTEMS AND ENVIRONMENT

The Semiconductor Industry and Its Economic, Political, and Social Impact in Mexico..... 388
Cuahtémoc L. Puertos, Isela J. L. Valle, Cirilo G. L. Vega

2025 SYSTEMS PHILOSOPHY

A The System-Transdisciplinary Concept of the System Approach (Paradigm and Disciplinary Matrix) 393
Michael Mokiý

LIVING SYSTEMS ANALYSIS

System Stress: Conceptual Foundations for Understanding System-Level Disruption 407
Elizabeth McGee

ADDITIONAL PAPER

The Synergism Hypothesis: A Theory Whose Time Has Come 425
Peter A. Corning

Author Index