

# **TestCS-DC'22**

**Tuesday, 9 November 2021 - Friday, 17 December 2021**

## **Scientific Programme**

## **From Molecules to Ecosphere**

**Invited Talk e-session**

**Ocean Biogeochemical Dynamics e-session**

## **Keynotes**

**Plenary Keynotes**

## **Reconstructing Multi-Scale Dynamics**

**Evolutionary computation methods e-session**

**Machine Learning Methods e-session**

**Multi-Level Computational Vision e-session**

**Knowledge Maps e-session**

**Algebraic Topology and Information Theory**

**Epistemology of integrative and predictive sciences e-session**

**Synthesis of Ecology, Biology and Ethnographic Data  
e-session**

## **Multi-level Modeling**

**Critical dynamics e-session**

**Invited Talk e-session**

## **Statistical and dynamical properties of networks e-session**

### **Multi-level Governance**

**Global systems science e-session**

**Open Systems Exploration e-session**

**Robustness and prevention e-session**

**Robustness and prevention e-session**

### **From Fields to Territories to the Planet**

**Open Systems Exploration for Social-Ecological Sustainability e-session**

### **Engineering and Control of Self-Organization**

**Invited Talk e-session**

### **From Particles to Complex Matter**

**Invited Talk e-session**

**Chemical Garden e-session**

**Complex Chemistry e-session**

**Physics of Complex Systems e-session**

### **Foundations of Complex Systems Science**

**Invited Talk e-session**

**Open e-session**

**Hot Topics in the Study of Complex Systems in Asia**

## **From Molecules to Organisms and Ecosystems**

**Organisms of agronomic interest e-session**

**From Antigens to Cognitive Immune System in Symbiotic Organisms e-session**

**Invited Talk e-session**

**From Molecules to Organisms: The Embryome e-session**

**Invited Talk e-session**

**e-Health e-session**

**From Plant Cells to Plant Fields e-session**

**Integrative Ecotoxicology e-session**

**Theoretical Biology e-session**

**From Plant Cells to Plant Fields e-session**

**Mathematical Modeling in Biological Complex Systems e-session**

## **From Individual to Social Cognition**

**Ecological Approach of Sport and Sport Education e-session**

**Integrative Individual Cognitive Science e-session**

**Interdisciplinary Studies of Synergy e-session**

**Evolution of Languages e-session**

**Co-Evolution of Socio-Semantic Networks e-session**

**From Processing Units to Computational Ecosystems to the Cloud e-session**

**Open e-session**

**Invited Talk e-session**

**Integrative Science of Education e-session**

**Social Psychology e-session**

**Neuroscience and Behavior e-session**

## **From Fields to Territories to the Planet**

**Integrative Logistics e-session**

**4P-Factories (e-lab) e-session**

**Territorial Intelligence for Multi-level Equity and Sustainability e-session**

**Open Systems Exploration for Social-Ecological Sustainability e-session**

**Open Systems Exploration e-session**

**Engineering of Territory Sustainability e-session**

**Engineering of Territory Sustainability e-session**

**Social Patterns in Multicultural Environments**

**Economics as a Complex Evolutionist System e-session**

**Human-Trace e-session**

## **From Molecules to Ecosphere**

**Invited Talk e-session**

**Ocean Biogeochemical Dynamics e-session**

## **Round Tables, Tutorials and Young Researchers**

**Young Researchers e-session**

**Tutorials**

**Multilinguism in Digital World e-session**