

Examples of Innovation and Application of Systems Sciences in France

This special issue will not only point to innovative activities of French individuals, teams or public or private organisations that are applying concepts and models in complex systems science, both in education and research activities, but also described the innovative roles of some organisations involved in education, culture and research in systems thinking and complexity in France and worldwide.

SUMMARY

-1_ Innovative roles of France born organisations involved in education, culture or research in systems sciences and complexity

1a. The Story of the French Society for Systems and Cybernetics Sciences AFSCET (20th Anniversary). Jean-Paul BOIS, former Vice-President of AFCET, AFSCET Vice-President (in memory of Lucien MEHL and Emmanuel NUNEZ, past AFSCET Presidents)

1b. The Story of the International Academy for Systems and Cybernetic Sciences (10th Anniversary). Pierre BRICAGE, Secretary General of IASCYS (in memory of Robert VALLÉE, IASCYS founding member)

1c. The Story of the European Union for Systemics. Pierre BRICAGE, Past Deputy Secretary General of the UES-EUS (in memory of Evelyne ANDREEWSKY, UES-EUS founding member)

-2_ Innovative activities of French teams in systems science education

2a. Addressing Complexity: Weaving Together, Reason and Strategy in Human Affairs. Michel PAILLET, X-SHS President, Paris, France; Welcome Complexity, MCX, France

2b. Personalised Open Education in Complex Systems Studies and Sustainable Development. Paul BOURGINE & Jeffrey JOHNSON BioEmergences laboratory (CNRS) France, UNESCO UniTwin CS-DC (UniTwin of the French UNESCO Commission), Paris, France, The Open University, London, UK.

-3_ Innovative activities of French individuals or teams involved in complex systems science research

3a. A Systemic Approach of religions Paradigms. Gérard DONNADIEU, Chaire Teilhard de Chardin, Facultés jésuites de Paris, Paris, Vice-President of The French Association of Systemics and Cybernetics (AFSCET), Paris, France

3b. From Complex Reality to Simple Systemic Models and back.

3c. Systemics applied to companies: dynamic simulation models, decision-making process.,

-4_ Innovative activities of French speaking individuals or teams in complex systems science research and applications

4a. A Multidimensional and Harmonized Systemic Integrative Approach For Managing Complex Societal Challenges. Patrick CORSI et Jacques de GERLACHE, Associate Practitioner Mines ParisTech, Paris, Club of Rome EU-Chapter, Chemical Industrie French National Center of Environment Experts, Puteaux, France, The GreenFacts Initiative, Brussels. Belgium

4b. Balancing individual and collective action: Economy and Systemic Paradigm, Charles FRANÇOIS (posthumous text), AFSCET Paris, France, IFSR Vienna, Austria, ISSS London, England, SSGS Valencia, Spain, past IASCYS founding member.

-5_ Innovative activities of individuals or teams in applications of systems science models

5a. Agile Transformation as an adaptive system. Luc TAESCH, Miloud TOUIRAT, Denis MONTREUX et Christophe ROCHEFOLLE, C2C, Coach of Coachs, Peer Development group, Paris, France, ENGIE, Bagnaux, France, & Oui-SNCF, Lille, France

5b. Systemic and physical modelling of the hydro-thermodynamic equilibrium states of the pedostructure under evaporation. Erik BRAUDEAU, Rabi H. MOHTAR et Hassan BOUKCIM, IRD, Institut de Recherche pour le Développement, France ; American University of Beirut, Faculty of Agricultural and Food Sciences; Texas A&M University Dept. Biological and Agricultural Engineering, Dept. Civil and Environmental Engineering; Université Mohammed VI Polytechnique, Maroc