

<InterSymp 2020>

The 32th International Conference on
Systems Research, Informatics and Cybernetics
&

**The 40th Meeting of the International Institute for Advanced
Studies in Systems Research and Cybernetics (IIAS)**

To be held at Ludwig-Markgraf-Gymnasium, Hardstrasse 2,
Baden-Baden, Germany, **August 3-7, 2020**

CALL FOR PAPERS

Symposium on **CAUSAL AND ANTICIPATIVE SYSTEMS IN BIOLOGY, PHYSICS, QUANTUM MECHANICS AND RELATIVITY**

Organizer & Chairman

Prof. Hon. Dr Ir Daniel M. DUBOIS

SYMPOSIUM TOPICS

This symposium deals with **invited papers** in the modeling and simulation of biological and physical systems depending on space and time, but also with retardation and/or anticipation.

Authors may submit papers dealing with a research spotlight in their field of expertise. Conceptual, logical, mathematical models may be proposed, but also discrete, algorithmic and simulation models. Models with differential equations are important, with their simulations with recursive, incursive and hyperincursive discrete algorithms.

Here is a limited list of topics keywords: Mathematical physics, causality principle and anticipative systems, the Wheeler-Feynman advanced and retarded electromagnetic waves, discrete physics, quantum mechanics, relativistic quantum field, special relativity, general relativity, gravitation, black hole, unification of physics. Biological science, neural networks, neuro-psychology, cognition, consciousness, free-will, mind. Ecological systems, climate regulation, money-based society, world economy. Cybernetics, artificial intelligence, artificial life, robotics. Informatics, Turing machine, quantum computing, recursive algorithms, incursive and hyperincursive algorithms.

Invitation to authors to submit an abstract and a paper

An extended abstract of 200 words as a maximum must be submitted for initial evaluation.

Author of accepted abstract will be encouraged to submit full paper of 5 single-spaces typed pages prepared according to the “Instruction to Authors” posted at the IIAS website.

The Paper Submission Guidelines, the Copyright Transfer Form and the Conference Registration Form are available at the Home page of the International Institute for Advanced Studies (IIAS) at: <http://www.iias.edu>

All submitted paper will be peer reviewed and accepted on the basis of their quality and relevance for the disciplines addressed.

The accepted paper of registered authors will be scheduled for presentation and published in a Conference Proceedings volume.

A strict adherence to Registration Procedure and Instructions to Authors is required for publication of your paper as detailed at the Conference Website: <http://www.iias.edu>

Submission of abstract and paper

Abstracts, as well as the final papers, must be submitted electronically by email as attachment to:

Prof. Hon. Dr Ir Daniel M. Dubois, Symposium Organizer/Chairman,
Email: daniel.dubois@ulg.ac.be - URL: <http://www.sia.hec.ulg.ac.be>
and

Prof. George E. Lasker, Conference Chairman, InterSymp 2020
Founding President of IIAS (P.O. Box 3010, Tecumseh, Ontario N8N2M3)
Email: lasker@uwindsor.ca

Deadlines for submission of abstract and paper

Abstract due: March 30, 2020

Notification of acceptance: April 9, 2020

Final paper due: May 9, 2020