

Tuesday, August 5, 2014

9:00 – 12:00

Hall C

**Symposium on Cybernetics & Systems Research,
Informatics, Logic, Mathematics, & Artificial Intelligence**

Joint Chair:

Prof. Michele Malatesta, Univ. degli Studi di Napoli Federico II, Napoli, Italy
Dr. Susie Vrobel, Director, The Institute for Fractal Research, Bad Nauheim, Germany

What Lacks in Formal Logic of the Turing Machine for Designing the Emergence of Natural Languages into Artificial Intelligence – Invited Paper

by Prof. Daniel Dubois, University of Liège, Belgium

Anticipation and Turing Machines

by Dr. Arturo G. Grappone, Medical Faculty, Rome 2nd University; and
Editor-in-Chief of the International Review “Metalogicon”, Rome, Italy

Analogue and Digital Bases of Trust – Keynote Address

by Dr. Susie Vrobel, Director, The Institute for Fractal Research, Bad Nauheim, Germany

COFFEE BREAK

On Interdefinability of Logical Connectives: An Algorithm for Deriving Sheffer’s Stroke Operation from Elementary Logical Products and Sums

by Prof. Michele Malatesta, Univ. degli Studi di Napoli Federico II, Napoli, Italy

On the Logical Paradoxes of the Concept of Applied Mathematics

by Prof. Jorge Carrera Bolaños, National University of Mexico (UNAM),
Mexico D.F., Mexico

Towards Spintronics Logic for Quantum Computers and Quantum Computation

by Prof. George Lasker, IAS and University of Windsor, Ontario, Canada

Tuesday, August 5, 2014

14:00 – 16:00

Hall C

**Discussion Panel on Environmental Cybernetics
And Environmental Systems Research**

Moderator:

Prof. Stephen Todd, University of Salford, U.K.