

Vasileios Basios. Short Biographical Note:.

Vasileios Basios is a senior researcher in Complex Systems' interdisciplinary physics with over twenty five years in research and research coaching. His research interests include the foundations of complexity science and nonlinear systems, and self-organization of complex matter. He serves as a project adviser and coordinator on the field of complexity and non-linear dynamics.

His current studies focus on the dynamics of information. As an adviser of Italy's CNR Foresight Initiative coordinates their project 'From Information to Action'. In collaboration with the team of Prof. Yukio-Pegio Gunji of Tokyo's Waseda university, they developed a novel approach that extends the scope of Bayesian inference, called the 'Bayesian and Inverse Bayesian inference', which is already furnishing novel insights especially on the area of biological information processing.

From 2002-2014, he worked on a new paradigm in self-organization during nucleation/aggregation in nano-materials (proteins and zeolites). He was supported by the "Complex Matter" initiative of the European Space Agency (ESA) during the 'ProMISS' and 'GCB' experiments at ISS, within Prof. Grégoire Nicolis' team at ULB.

Also, during 2004-2008, he was the leading beneficiary of "Pythagoras I&II" projects of the University of Patras & ULB (coordinated by Tassos Bountis). He has also participated in "Thalis I&II" and other projects of COSA

He is a proud 'veteran' of the 'Chaos and Complexity Greek Summer Schools' founded by Tassos Bountis and the Greek community of COSA. Participating as a student since the very the first one and as a lecturer and faculty until presently.

During his formative years he was tutored by Ilya Prigogine (Nobel Laureate) at Solvay Institutes and Grégoire Nicolis at CeNoLi-ULB; where he got his PhD, after studying 'cybernetics' with John S. Nicolis, at the University of Patras. His alma mater is Aristotle University (Physics & Astronomy Department, BSc) and the University of Brussels (Physics Department, MSc & PhD; awardee of the David and Alice Van Buren Prize for doctoral studies).