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ABSTRACT

COMPLEXITY IN THE ARTS AND SCIENCES: "A CASE OF "ART IMITATES LIFE"

Why do we often say, "Art imitates Life?" Is it simply because artists look at life and try to mimic it in their works? That would be very naïve and even insulting, since good artists try to interpret nature through their creations, not simply photograph it. Can science play a role as a "mediator" between Art and Life? Some might argue not, since artistic styles are subjective and vary greatly in time, while science is objective and relies on measurements, experiments and analysis of natural phenomena occurring throughout all space and time. In this brief presentation, I will try to show that the more recently developed science of Complexity can play a constructive role in bridging the gap between Art and Life, using its tools of Mathematics and Physics in an original and efficient way.

Short CV Prof. Dr. em.Tassos Bountis

Anastasios (Tassos) Bountis is Professor Emeritus of the Department of Mathematics, University of Patras, Greece, where he was Professor from 1990 to 2016, and director of the Center for Research and Application of Nonlinear Systems. In 2014 he was elected Corresponding Member of the Academy of Athens in the chair of complex systems. In 2015 he was elected member of the European Academy of Science and Arts, at Salzburg. In 2024, he was awarded the G.M. Zaslavsky Award for outstanding scholars in Nonlinear Physical Science. He obtained his Ph.D. degree in Physics from the University of Rochester, N.Y., in 1978, and has taught at universities in the U.S.A. until 1985. He was invited lecturer and researcher in several countries in Europe, Mexico, India, Japan, Brazil, New Zealand, Australia and South Korea. His research has been supported by many U.S., European and Greek grants, including an ORAU grant from Nazarbayev University and a grant of the Russian Ministry of Education. He has organized in Greece 5 international conferences, 30 Greek summer schools and 5 PhD Schools on "Nonlinear Dynamics and Complexity". He has authored 7 books in Greek and one in English on "Complex Hamiltonian Dynamics" (Springer Synergetics, 2012). He has supervised 20 M.Sc. theses and 15 Ph.D. theses and is on the Editorial Board of 5 International Journals. He has published more than 170 papers in refereed journals, 58 in conference proceedings, and has nearly 7300 citations, h-index: 44, i10-index:138 (Google Scholar). https://thalis.math.upatras.gr/~bountis/