The Good, the Bad and the Ugly: A Personal View of Evolutionary Computation Research

SPEAKER **Prof. Carlos Artemio Coello Coello**

Professor
Department of Computer Science,
CINVESTAV-IPN, Mexico City, Mexico

DATE 17 Dec, 2025 (Wed)

TIME 11:00 AM - 12:00 PM

VENUE G7315, 7th Floor, Green Zone, Yeung Kin Man Academic Building, City University of Hong Kong, 83 Tat Chee Avenue, Kowloon Tong

ABSTRACT

In this talk, I'll give some personal opinions about the way in which research in evolutionary computation has evolved and some of the current mispractices that are very popular in the field. Topics discussed will include peer-review at top journals, the emphasis on methodology rather than on the value of a scientific contribution, the existence of topics that become popular and then disappear and the future of the research in evolutionary computation.

BIOGRAPHY

Carlos Artemio Coello Coello received a PhD in Computer Science from Tulane University (USA) in 1996. His research has mainly focused on the design of new multi-objective optimization algorithms based on bio-inspired metaheuristics (e.g., evolutionary algorithms), which is an area in which he has made pioneering contributions. He has received several awards, including the National Research Award (in 2007) from the Mexican Academy of Science and the 2012 National Medal of Science in Physics, Mathematics and Natural Sciences from Mexico's presidency, the 2013 IEEE Kiyo Tomiyasu Award, the 2016 The World Academy of Sciences (TWAS) Award in "Engineering Sciences", and the 2021 IEEE Computational Intelligence Society Evolutionary Computation Pioneer Award. Since January 2011, he is an IEEE Fellow. He is currently the Editor-in-Chief of the IEEE Transactions on Evolutionary Computation. He is Full Professor with distinction (Investigador Cinvestav 3F) at the Computer Science Department of CINVESTAV-IPN in Mexico City, Mexico.

All are welcome!

In case of questions, please contact Prof, ZHANG Qingfu at qingfu.zhang@cityu.edu.hk, or visit the CS Departmental Seminar Web at https://www.cs.cityu.edu.hk/events/cs-seminars/recent-cs-colloquiums.