

University of Macau
Faculty of Science and Technology
Department of Computer and Information Science

Session 1: Nature-inspired Optimization Algorithms: How to Learn from Nature?

Session 2: Metaheuristic Applications

By

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Date: 26 January 2015 (Monday)

Time: 11:00am – 1:00pm

Venue: E12-G003

Abstract

Topic 1:

Nature-inspired Optimization Algorithms: How to Learn from Nature?

This talk reviews the latest nature-inspired algorithms with brief history. The key characteristics of such algorithms will be analyzed and challenging issues will be discussed. Some open problems will also be presented.

Topic 2:

Metaheuristic Applications

This talk presents a review of the latest development of metaheuristics in engineering. Detailed algorithm descriptions with focus on practical implementation would be introduced. Some practical case studies as examples and applications are discussed.

Biography



Xin-She Yang is Reader in Computational Modelling and Simulation at School of Science and Technology, Middlesex University. He is the winner of Shaanxi Province Distinguished Talented Professorship award at Xi'an Polytechnic University in 2011. He is an Adjunct Professor of Reykjavik University, Iceland, and a Guest Professor of both Harbin Engineering University and Shandong University, China. He is also a Visiting Professor at Megatrend University Belgrade, Serbia. Before he joined Middlesex University, he was a Senior Research Scientist at UK's National Physical Laboratory and Cambridge University after obtaining his DPhil in Applied Mathematics from University of Oxford.

He has authored/edited 19 books with Wiley, Elsevier, World Scientific, Dunedin Academic and Springer, and published more than 200 papers. His h-index is 35 with more than 7776 citations. He is the Editor-in-Chief of Int. J. Mathematical Modelling and Numerical Optimisation (IJMMNO, Inderscience), serves as an editorial board member of several international journals, including Elsevier's Journal of Computational Science (JoCS), ISRN-Applied Mathematics, IJAI, SJI and Int. J. Bio-Inspired Computation, and the editor of OCP Science book series. He is also the Chair of the IEEE CIS task force on Business Intelligence and Knowledge Management, and Director of International Consortium for Optimization and Modelling in Science and Industry (www.iCOMS.org). He is the Editor-in-Chief of the journal: Int. Journal of Mathematical Modelling and Numerical Optimisation (IJMMNO).

All are Welcome