上海交通大学自动化系
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Key Laboratory of System Control and Information Processing, Ministry of Education

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Recent Advances on Decomposition Multiobjective Optimization Evolutionary Algorithms

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Abstract:

Multiobjective optimization has many real-life applications. Multiobjective optimization evolutionary algorithms (MOEA) have been widely accepted as a main methodology for dealing with multiobjecitve optimization problems. Multiobjective optimization evolutionary algorithms (MOEA/D) is one of the three major MOEA frameworks. Over the last several years, MOEA/D has received a lot of research effort from the evolutionary computation community. Many successful applications of MOEA/D have been reported. In this talk, I will explain the motivation, ideas and basic components in MOEA/D. I will also show how other traditional optimization methods and heuristics can be integrated into MOEA/D framework.

Biography:

张青富博士为香港城市大学和英国 Essex 大学教授，2009 年首批入选陕西省“百人计划”。分别于 1991 年和 1994 年获西安电子科技大学硕士学位和博士学位。主要从事多目标优化、分布估计算法、启发式方法理论及应用研究，是进化多目标优化领域的国际著名学者，已在国际期刊与会议发表学术论文 60 余篇，提出了基于分解的多目标进化算法(MOEA/D)和基于规则模型的多目标分布估计算法(RM-MEDA)两类多目标优化算法。其中，MOEA/D 获 2009 年 IEEE 计算智能大会多目标优化国际竞赛第一名，相应的论文获 IEEE Transactions on Evolutionary Computation 2010 年度最佳论文奖。现为 IEEE Transactions on Evolutionary Computation、IEEE Transactions on Systems, Man, and Cybernetics Part B 等权威国际期刊编委。