



Ciclo de Seminários

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Modelling and Optimization of Non-linear Complex Systems

The Aston Lab for Intelligent Collectives Engineering (Alice) is Aston University's Research Group for intelligent systems. Our research expertise includes various forms of intelligent, social and collective computing systems. Alice's work on modelling and optimization of non-linear complex systems is being applied to a wide range of domain including sensor networks, non-linear dynamic systems modelling techniques, statistical-based comparison methodology for evaluating algorithms, the mathematical foundation of optimization algorithms, and adaptation law synthesis for a self-adaptative evolution strategy. This talk will discuss some active research projects such as Aedes aegypti control, phoneme aware speech recognition through evolutionary optimization, vehicle fleet optimization using Ant Colony Optimization and Lyapunov design of success-based step-size adaptation rules.

Elizabeth Wanner is a Senior Lecturer at Aston University, Birmingham, UK. She received her PhD degree in Electrical Engineering from UFMG, Brazil in 2006. and her MSc degree in Mathematics from UFMG, Brazil, 2002. During her PhD, she worked with the Rolls-Royce Optimization Group at University of Sheffield, Sheffield, UK. Elizabeth's research interests are in population-based multiobjective optimization and metaheuristics, multi-criteria decision analysis and mathematical and statistical aspects of optimization theory.

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