Séminaires ISIR

Jeudi 15 Mai 2014 à 11h00

A.E. (Gusz) Eiben

Campus Jussieu, 4 place Jussieu, Paris
Salle de réunion 304

Title : How to calibrate evolutionary algorithm parameters?

Abstract : Evolutionary algorithms have parameters that greatly influence their performance. This fact has been largely ignored in the first decades of development of the field, but today the issue is being recognized as one of the major challenges for researchers as well as practitioners. In this talk I present a framework to describe and study the related problem(s), distinguish parameter tuning (before the run) and parameter control (during the run), and highlight a few promising approaches and related results.

Short Bio : Gusz Eiben is a professor of Computational Intelligence on the VU University Amsterdam and Visiting Professor in the Department of Electronics of the University of York, UK. His academic research lies within computational intelligence or natural computing with evolutionary computing as the binding factor, see the thematic overview on the right hand side of his web page. He has been involved in various European research projects: EvoNet I (Esprit 20996), EvoNet II (FP5, IST-1999-14087), DREAM (FP5, IST-1999-12679), NEW TIES (FP6-502386), SYMBRION (FP7-ICT-2007.8.2), EVOBODY (FP7-258334), OPTI-FOX (FP7-123456), AWARE (FP7-123456).
Further to academic research, he has worked in business intelligence R&D projects, including data warehousing and data mining for feature selection, creditibility assessment, direct marketing, customer retention analysis, sensory data analysis, e-business, etc.

Institut des Systèmes Intelligents et de Robotique
UPMC – CNRS / UMR 7222
Pyramide Tour 55 - Boîte courrier 173
4 Place Jussieu – 75252 PARIS cedex 05 – France
Tél. +33 (0)1 44 27 51 31 / 51 41 – Fax +33 (0)144 27 51 45

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