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Otwarte Seminarium badawczo-rozwojowe EIS

Parallel Cooperative Hybrid Metaheuristics: some results and trends

Abstract: Finding an optimal solution to some combinatorial optimisation problems is computationally very difficult, for many useful instances. The best results are obtained with hybrid heuristics, which normally require very complex solvers. We propose an alternate solution where hybridization is obtained by means of parallelism and cooperation between simple singleheuristic solvers.

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Salvador Abreu is full professor at the Computer Science department of the University of Évora (Portugal). He holds a Habilitation (Agregação) in Computer Science from the University of Évora (2009), a PhD in Computer Science from Universidade Nova de Lisboa (UNL, 1994) as well as degree in Informatics Engineering, also from UNL (1987). He is presently director of the Laboratory for Informatics, Systems and Parallelism of the Universities of Évora, Beira Interior and the Algarve and Head of the Scientific Council of the School of Science and Technology of the University of Évora.

Previously, he held several positions at the University of Évora, including that of pro-rector for information technology, director of Computing Services, head of the Computer Science Department, head of the Exact Sciences Departmental Area and director of the BSc and PhD programs in Informatics Engineering and Computer Science.

His research interests include Programming Language Design and Implementation, Parallel and Distributed Computing, Declarative Programming Languages and Tools. Logic Programming is seen as the basis for the development of tools and applications, namely for organizational information systems. He is active in the Logic Programming and Constraints research communities, having organized or served in the program committees of various conferences.

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