



ADVANCED COMPUTATIONAL TECHNOLOGIES

ACT delivers the benefits of leading-edge research in Advanced Computing technology, such as Evolutionary Computation (EC), as fully supported, production-quality systems.

PROBLEMS AND SOLUTIONS: Do any of the following sound familiar?

ENGINEERS: "Multiple design parameters and constraints are hindering the development of your high-tech product - you need some new ideas and directions..."

CHEMISTS: "The sheer number of potential compounds is slowing your intentions to develop a new medicinal drug ..."

MARKETING MANAGERS: "You have masses of data in a Customer database and you need to select the most appropriate segment for a new marketing campaign..."

PROJECT MANAGERS: "You have many different projects running in parallel, all trying to use the same resources at the same time..."

ACT can apply EC techniques to a wide range of problem areas or integrate these (and associated technologies) with existing systems to provide support and enhancement to existing processes.

APPLICATIONS: Such as solution search, exploration and optimisation in the areas of:

Drug Discovery and Design, Engineering design, Resource scheduling, Timetabling, Project and Programme Management, Facility layout, Product design, Data mining, Systems identification, Response curve modelling, Optimal loading and packing, Structural design, Stock production, storage and movement, Minimisation of material usage, Routing problems relating to pipe networks, power supply etc, Portfolio design, Organisational optimisation.

The significant benefits offered by the appropriate use of these technologies is very apparent from their successful application in a wide range of problem areas. **ACT** can provide extensive examples of successful application and integration. Even a simple application can result in significant savings of time and cost, as well as overall product improvement.

TECHNOLOGY

ACT has extensive experience of the application and integration of Evolutionary and Adaptive Computing and complementary computational intelligence techniques, including:

Genetic Algorithms, Simulated Annealing, Tabu Search, Ant Colony Models, Genetic Programming, Software Agent Design, Neural Networks.

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