

医療健康情報技術研究センター 2014年度第3回講演会

The 3rd HiMED Seminar (FY2014)

2014年9月18日(木) 16:00 ~ 17:00 6号館 6224 教室
SEPTEMBER 18, 2014, 4PM-5PM@6224



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NEW APPROACHES IN GENETIC ALGORITHMS

邦題： 遺伝的アルゴリズムの新しいアプローチ

The talk introduces non-conventional approaches to make Genetic Algorithms more effective. Namely, (1) a concept called Structural Diversity is introduced and (2) a concept called Case Based Reasoning (CBR) is combined with GA. For (1), ideas and algorithms to utilize the Structural Diversity metrics to maintain both diversity and fitness in an actual population are introduced. For (2), a technology to utilize former solutions to a similar problem for deriving new solutions is presented along with a Case Base (CB) maintenance technology that cares for diversity and fitness issues in the population as well. As an example problem to be solved by these new technologies, the Travelling Salesman Problem (TSP) is considered.

Language(言語) : English(英語)

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