DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE UNIVERSITY OF SOUTHERN DENMARK, ODENSE

COMPUTER SCIENCE COLLOQUIUM

Artificial Intelligence Applications of On-Line Geometric Searching

Alejandro López-Ortiz School of Computer Science University of Waterloo, Canada

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IMADA's Seminar Room

Abstract:

Consider a scenario in which m different streets intersect at a single point. We are given n robots to explore the rays and find a target, say a petrol station, located at an unknown distance along the rays. The case m=2, n=1 is the classical doubling search problem, while n=1, and arbitrary m is the also well known "cow path" problem.

In this talk we consider several variants of the cow-path problem and highlight their applications in the scheduling of multiple heuristics in Artificial Intelligence settings.

Host: Kim Skak Larsen