



Learning Planning Action Models with Numerical Information and Logic Relationships using Classification Techniques*

*Note: The full contents of this paper have been published in the volume *Lecture Notes in Artificial Intelligence 11160* (LNAI 11160)

José Á. Segura-Muros, Raúl Pérez, Juan Fernández-Olivares
University of Granada
Granada, Spain
{josesegmur,fgr,faro}@decsai.ugr.es

Abstract—The task of constructing a planning domain is difficult and requires time and vast knowledge about the problem to be solved. This paper describes PlanMiner-O3 a planning domain learner designed to alleviate this problem, based on the use of a classification algorithm, able to learn planning action models from noisy and partially observed logic states. PlanMiner-O3 is able to learn continuous numerical fluents as well as simple logical relations between them. Testing was realized with benchmark domains obtained from the International Planning Competition and the results demonstrate PlanMiner-O3's capabilities of learning planning domains.

Index Terms—