

F. NORI, G. METTA, G. SANDINI. EXPLOITING MOTOR MODULES IN MODULAR CONTEXTS. ROBUST INTELLIGENT SYSTEMS. SCHUSTER, ALFONS (ED.) 2008, XII, 299 P. 81 ILLUS., HARDCOVER ISBN: 978-1-84800-260-9.

Abstract

There is a growing interest within various research communities in modelling motor control systems with modular structures. Recent studies identified that such control structures have many interesting properties. This chapter focuses, in a robot environment, on properties that are related to the fact that specific sets of contexts can themselves be modular. In particular, the chapter shows that the adaptation of a modular control structure can be guided by the modularity of contexts, by means of interpreting a current unexperienced context as the combination of previously experienced contexts.