

特別講演

Fuzzy Rule Interpolation in Embedded Behaviour-based Control

講師：Szilveszter Kovács

所属：Department of Information Technology, University of Miskolc, Miskolc, Hungary

e-mail：szkovacs@iit.uni-miskolc.hu

URL：www.iit.uni-miskolc.hu/~szkovacs

日時：2012年3月7日（水）10:30 -

会場：首都大学東京日野キャンパス 2号館401教室

参加費：無料

言語：英語

Abstract:

Fuzzy Rule Interpolation (FRI) methods are efficient structures for knowledge representation with relatively few rules. In spite of the good knowledge representation efficiency, the usually high computational demand turns the FRI methods hardly suitable for embedded real-time applications, where the short reasoning time has a high importance. On the other hand the fact of increasing computational power of nowadays available devices gives an opportunity to the FRI methods for appearance in real-time embedded applications. The goal of this presentation is to give a short introduction to the concept of the FRI methods, and having some simple examples from the area of navigation and ethological modeling, the demonstration of the benefits of adapting low computational and resource demanded FRI methods in embedded behavior-based control applications.

Keywords - fuzzy rule interpolation (FRI); low computational demand FRI; fuzzy automata; behavior-based control.

連絡先：都大学東京大学院システムデザイン研究科 久保田直行
Phone&Fax: 042-585-8441 E-mail：kubota@tmu.ac.jp