

特別講演のご案内

- ・ 日時:2011 年 9 月 13 日(火)
- ・ 場所:首都大学東京日野キャンパス 2 号館 301 教室
- ・ 参加費:無料
- ・ 言語:英語

Control of a small mobile robot by gestures using fuzzy logic

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Abstract:

This talk aims at presenting how gestures can be used to control devices. More precisely, it is shown how a Pololu 3pi Robot can be controlled using a Cyberglove. It will be explained that hand postures can be described in terms of finger configurations. Each configuration is itself described by linguistic terms whose meanings are represented by membership functions. A fuzzy rule-based approach is used to fuse finger configurations into hand postures which are associated to specific control action for the robot. Short videos will illustrate the robot control with the Cyberglove and by a Kinect device.

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