

特別講演

題目： Evolutionary Learning of Counter-Propagation Neuro-Controllers for Multi-Objective Robot Navigation

講師： Prof. Amiram Moshaiov

所属： Tel-Aviv University, Israel

- ・ 日時： 2015 年 6 月 12 日（金） 13:30-14:30
- ・ 場所： 首都大学東京 日野キャンパス 2号館 402 教室
- ・ 参加費： 無料
- ・ 言語： 英語

概要： This study explores evolutionary training of Counter-Propagation Neural-networks (CPNs). It concerns navigating a robot in an environment that differs from the trained one. To diversify trained solutions, and to obtain controllers for various scenarios, a multi-objective evolutionary approach is used. The evolved controllers exhibit multi-objective characteristics. For the studied case, the CPNs are found to be statistically superior to the Feed-Forward Networks in both the obtained performances and the learning rates.

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Seminar Announcement

Title: Evolutionary Learning of Counter-Propagation Neuro-Controllers for Multi-Objective Robot Navigation

Speaker: Prof. Amiram Moshaiov

Affiliation: Tel-Aviv University, Israel

- **Date:** 13:30-14:30, June 12, 2015
- **Place:** Hino Campus, Building 2, Lecture Room 402
- **Language:** English
- **Participation Fee:** Free

Abstract: This study explores evolutionary training of Counter-Propagation Neural-networks (CPNs). It concerns navigating a robot in an environment that differs from the trained one. To diversify trained solutions, and to obtain controllers for various scenarios, a multi-objective evolutionary approach is used. The evolved controllers exhibit multi-objective characteristics. For the studied case, the CPNs are found to be statistically superior to the Feed-Forward Networks in both the obtained performances and the learning rates.

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