

2025 年 6 月 27 日

関係各位

## 講演会 開催のお知らせ

南山大学理工学研究センター長 坂本 登

下記のとおり、計測自動制御学会中部支部・南山大学理工学研究センター共催講演会を開催します。多くの方の参加をお待ちしております。

### 記

日 時 : 2025 年 7 月 14 日(月) 10:30 ~ 11:30

場 所 : 名古屋工業大学 2 号館 0233 講義室

講演者 : Dr. Gennaro Notomista (Assistant Professor, the Varma Family Professor in Robotics, and the director of the Ecological and Resilient Autonomous roBots Lab (ERABLab) in the Department of Electrical and Computer Engineering at the University of Waterloo)

題 目 : Center Controller Selection for Long-term Autonomy and Robot Ecology

概 要 : During their young life, robots, with the invaluable help of humans, have made the planet Earth arguably worse from an ecological perspective. Robot ecology, far from simply concerning itself with the employment of robotic systems in ecological studies, focuses on the development of robots and algorithms to optimize the relationships of autonomous machines with living organisms and their physical environment. To this end, constraint-driven control, owing to its opportunistic nature, demonstrated to be the right paradigm for decision making of robots deployed over long time horizons in unknown and evolving environments. Yet, the optimization-based nature of such controllers makes their analysis more difficult than their synthesis. In this talk, a novel approach for the analysis and synthesis of optimization-based controllers based on analytic center selection of differential inclusions is presented.

連絡先 : 南山大学理工学部機械システム工学科 坂本 登 (noboru.sakamoto@nanzan-u.ac.jp)