THE UNIVERSITY OF TOKYO

講演会のお知らせ

日時：2013年12月13日(金)　16:30-18:00
場所：駒場キャンパス18号館1階メディアラボ２

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Agent-based Models for the Emergence and Evolution of Language

要旨：The origins and evolution of language is currently a hot area of research. In this talk I give an overview of our own work, which takes language to be a complex adaptive system that emerges and continues to involve in situated embodied interactions. I first show how we tackle the very beginning of language, taking inspiration from the way very young children acquire their first words, and report on computer simulations and robotic experiments that show the beginning of symbolism and the acquisition of concepts and words. Next I discuss concrete scenarios on why and how more complex syntax and meaningful grammar can emerge. This requires a serious grammar model that can handle the richness and incredible sophistication of human grammar, and is also adequate with respect to language processing, language learning and evolution. I will briefly sketch the ideas behind Fluid Construction Grammar (FCG) which our team has developed for this purpose. FCG draws on insights from linguistic research in construction grammar and integrates many known techniques from computational linguistics.

Steels氏はコンピュータシミュレーション、ロボティクス、言語進化、Fluid Construction Grammar等多くの分野で活躍されています。どなたでも参加できますので、都合のつく方は是非ご参加下さい。