

明治大学先端数理科学インスティテュート

# MIMS現象数理カフェセミナー

日時: 2014年9月24日(水) (12:10 - 12:50)

場所: 中野キャンパス8階 談話室

## Pattern formation in crowd dynamics

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**Abstract:** In this talk many types of spontaneous pattern formation in human flow are shown. It is well known that biological entities (fish, birds, ants etc.) behave "as one" and show amazing order without any central controlling unit. Recent development of mathematical science has revealed that the collective motion of pedestrian could also be viewed as a self-organized system. Actually, we can observe self-organized lanes, arches and various structures in simulations and experiments of pedestrians, and they are nice examples of the spontaneous order in non-equilibrium finite particle systems. In this presentation, we review some of the self-organized phenomena observed in crowd simulation and give possible explanations to them via mathematical modeling.



問い合わせ:

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