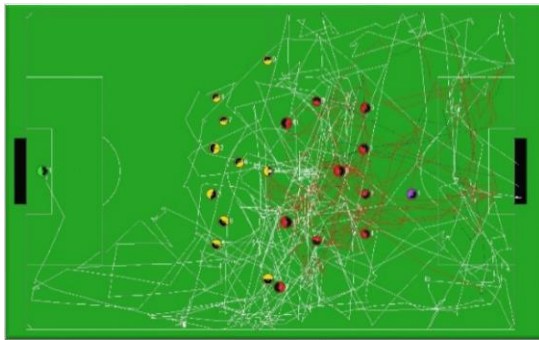


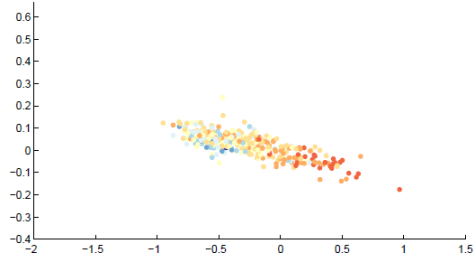
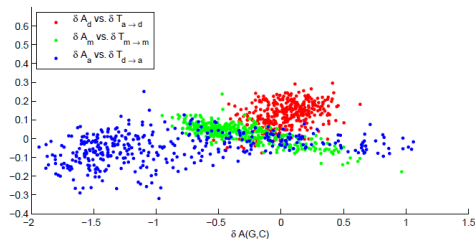
Complex Systems in Robotics

Oliver M. Cliff

Classifying dynamics

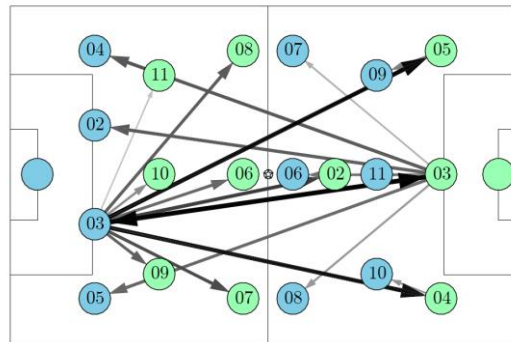


RoboCup 2D simulation trace diagram

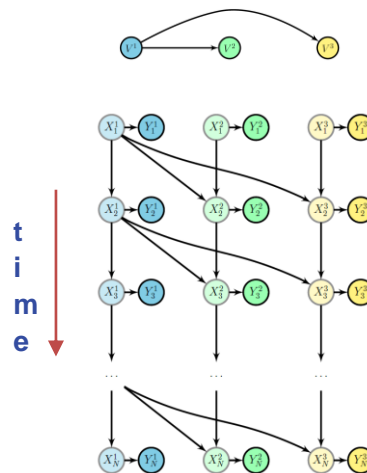


State-space coherence diagrams

Complex networks



Pairwise (separable) interactions

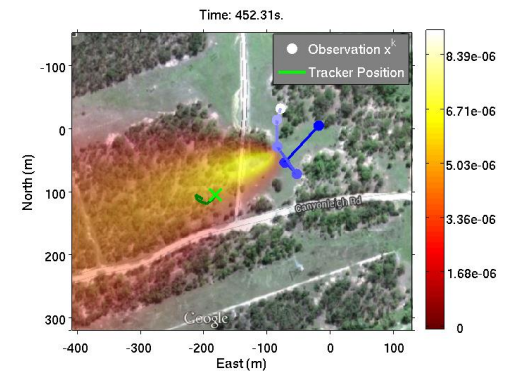


Network (inseparable) interactions

Environmental modelling



UAV system in flight. Inset: radio-tagged *Manorina Melanocephala* localized in these experiments.



Localizing a live bird. Estimated tracks of the bird in green and UAV in blue. The grid-based posterior (heat colormap) converges over time to an estimate of the position.