

## **ARC Centres of Excellence Program**

### **ARC Centre for Complex Systems**

**Interim Director: Professor P A Lindsay**

**Collaborating Institutions:** The University of Queensland  
Monash University  
The University of New South Wales  
Griffith University  
Indian Institute of Technology Kanpur  
Compaq Computers Australia, Pty Ltd  
Centre National de la Recherche Scientifique  
Boeing Australia Limited  
University of Sydney

Individuals, societies, economics and environments are highly connected by intricate, dynamic networks. Events in one part of such networks can have unexpected, profound effects in other parts. To understand and manage large systems, we need to deepen our understanding of the fundamental phenomena at play, and to build tools that help us to plan and influence the complex behaviours that emerge.

The Centre will assemble a critical mass of researchers from a range of disciplines and institutions to undertake research on questions fundamental to understanding and managing large, complex systems. The focus will be on the investigations of dynamic networks of interacting agents (e.g. a flock of birds, or the problem of air traffic control) and emergent properties (e.g. booms and busts in economic activity). A special focus of the Centre will be the application of its research findings by other researchers.