

MPE Public Lecture: **Act Beyond Borders**

Melbourne and Sydney (October 2013)



Hiroaki Kitano

President & CEO of
Sony Computer Science
Laboratories



This October, Maths of Planet Earth Australia Ambassador Prof. Kitano will present two public lectures, in Melbourne and Sydney, on the theme 'act beyond borders'.

Famed for his creation of the robotic dog AIBO (Artificial Intelligence roBOT) and for founding the Robotic Soccer World Cup, Prof. Kitano, CEO of Sony Computer Science Laboratories, has initiated many widely recognised, high impact projects.

Mathematics plays a pivotal role in understanding world we live in—an evolvable complex system constantly being optimised for the environment. Dynamics of complex networks, long-tail distribution, evolutionary optimisation on network structures and behavioural strategies are fundamental to the understanding of such complex systems. Designing control, prevention, and remedies of systems failure is critical for healthcare and global sustainability.

Proper understanding of underlying mathematical structures seriously impacts strategic decisions for medical technologies, engineering design, and policy decisions.

These talks illustrate some of the critical global agendas, and how mathematics may influence understanding and design of countermeasures for these problems.

Register your interest at www.amsi.org.au/Kitano