## **NTU Winter School on Complexity Science**

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	Thursday 22-Mar-2018	Friday 23-Mar-2018	Monday 26-Mar-2018	Tuesday 27-Mar-2018	Wednesday 28-Mar-2018
	Onset of Complexity	Foundation of Complex System	Complexity & Social Systems	Urban Complexity	Health Systems Complexity (HSC)
08.30 - 09.00 am					
09.00 - 09.30 am	Introduction: Complexity Science Peter M. A. Sloot	Emergence of Power Laws Stefan Thurner	<b>Islands of Order</b> J Stephen Lansing	<b>Tipping Points</b> Siew Ann Cheong	Introduction to HSC Russell Gruen
09.30 - 10.00 am					Introducing mHealth into health systems. Baby steps or transformation ? Josip Car
10:00 - 10:30 am	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break
10:30 - 11:00 am	**Growth, Innovation, Sustainability and the Accelerating Pace of Life from Cells to Cities Geoffrey West	Non-Linear System Response: From Chaos to Complexity Colm Connaughton	Collective Emotions in Cyberspace Janusz Holyst	<b>Urban Data Analytics</b> Markus Schlaepfer	System Dynamics of Healthcare  John P. Ansah
11:00 - 11:30 am					
11:30 - 12:00 pm	Reducing Complexity with Quantum Mechanics	Self Organized Criticality  Lock Yue Chew	Complexity & Shift in Modern Science	Urban Mobility Under Strain Chris Monterola	The Complexity of Health & Diseases: Viral & Social Epidemic
12:00 - 12:30 pm	Mile Gu	Eddit rue eriew	W. Brian Arthur	emis ivioniterala	Peter M. A. Sloot
12:30 - 02:00 pm	Lunch				
02:00 - 02:30 pm	Introduction NetworkX Michael Lees	Robustness NetworkX Michael Lees	Spreading Phenomena NetworkX Michael Lees	Introduction: Agent Based Modelling Michael Lees	Student Presentations
02:30 - 03:00 pm					
03:00 - 03:30 pm					
03:30 - 04:00 pm	Coffee Break				
04:00 - 04:30 pm	Introduction NetworkX Michael Lees	Robustness NetworkX Michael Lees	Spreading Phenomena NetworkX Michael Lees	Viral Marketing NetworkX Feng Ling	Wrapping up
04:30 - 05:00 pm					
05:00 - 05:15 pm					
05:15 - 06:00 pm	Cocktail				
06:00 - 08:00 pm	Welcome Dinner cum Celebration of Complexity Institute's new office*	End	End	End	End
* Venue: ABN Level 1					
**Geoffrey West's lectur	e has been brought forward from 27 to 22 N	farch due to his tight schedule	Lecture	Practical	Break

<sup>\*\*</sup>Geoffrey West's lecture has been brought forward from 27 to 22 March due to his tight schedule