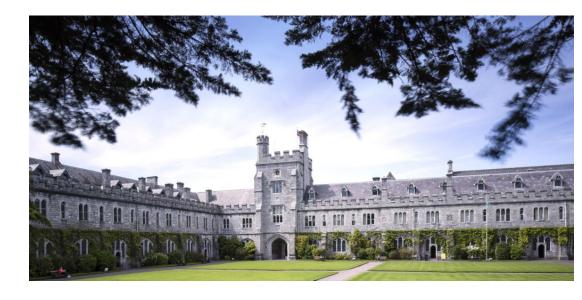
5^{th} CRITICS Workshop 27-31 August 2018, Cork



 ${\bf Organization} \ {\bf Committee:}$

Chun Xie Peter Ashwin Sebastian Wieczorek







Time	Monday, 27 August Location: Aula	a Maxima	Time
08.45-09.25	Registration		09.00-09.30
09.25	Opening remarks (Sebastian Wieczorek)		Chair
Chair	Martin Rasmussen		09.30 - 10.15
09.30 - 10.15	James Gleeson - Cascade dynamics on networks		
10.20 - 11.05	Edgar Knobloch - Pinning and Depinning in Nonautonome	ous Sys-	10.20-11.05
	tems		
11.10-11.40	Tea/coffee break		11.10-11.40
11.40-12.10	Henk Dijkstra - The point of no return for climate action: e	effects of	11.40-12.10
	climate uncertainty and risk tolerance		12.15 - 12.45
12.15 - 12.45	Courtney Quinn - Rate-induced tipping of the AMOC in	a global	
	oceanic box model		12.50-15.00
12.50 - 15.00	Lunch break		15.00
Chair	Ulrike Feudel		16.00-17.30
15.00 - 15.30	Peter Ditlevsen - Complex Climate Response to Astronomic	cal Forc-	18.00
	ing: The Middle-Pleistocene Transition in Glacial Cyc	cles and	
	Changes in Frequency Locking		
15.35 - 16.05	Christian Pangerl - A Girsanov approach to slow parame	eterising	
	manifolds in the presence of noise		Time
16.10 - 17.30	Informal Discussions		Chair
17.30 - 20.00	Welcome Reception at Franciscan Well Brewery		09.30-10.15

		11.40-12.10
Time	Tuesday, 28 August Location: Aula Maxima	12.15-12.45
09.00-09.30	Registration	
Chair	Kathrin Padberg-Gehle	12.50-15.00
09.30-10.15	Philipp Hoevel - Rise and fall of online topics: understanding dy-	Chair
	namic hashtag communities	15.00-16.00
10.20-11.05	Didier Sornette - A General Framework Reconciling Rational with	16.00-18:00
	Inefficient Financial Bubbles and a novel mechanism for financial	
	fubbles (time-varying momentum horizon)	
11.10-11.40	Tea/coffee break	
11.40-12.10	Ulrike Feudel - Tipping phenomena in typical dynamical systems	
	subjected to parameter drift	Time
12.15 - 12.45	Egbert van Nes - Global resilience of tropical forests and savannas	Chair
	to critical transitions	09.30-10.15
12.50 - 15.00	Lunch break	
Chair	Jan Sieber	10.20-11.05
15.00 - 15.30	Rafael Obaya - Persistence in monotone skew-product semiflows	
	with applications to non-autonomous Nicholson systems	11.10-11.40
15.35 - 16.05	Anna Vanselow - Rate-induced transitions in population dynamics	11.40-12.10
16.10 - 17.00	Informal Discussions	
17.00-19.00	Poster Session with music, snack and drinks	12.15-12.45

Time	Wednesday, 29 August Location: Aula Maxima
09.00-09.30	Registration
Chair	Peter Ditlevsen
09.30 - 10.15	John Dearing - Anatomy of a critical transition: Erhai lake, SW
	China
10.20 - 11.05	Marten Scheffer - Quantifying Systemic resilience of humans and
	other animals
11.10-11.40	Tea/coffee break
11.40-12.10	Carmen Nunez - Li-Yorke chaos in nonautonomous Hopf bifurcation
12.15 - 12.45	Pablo Rodríguez-Sánchez - Neutral competition and chaos. An ex-
	ample of reproducible research
12.50 - 15.00	Lunch break
15.00	Bus to Kinsale. Departure at UCC Western Gateway Building
16.00 - 17.30	Tour of Kinsale
18.00	Dinner at Fishy Fishy

Time	Thursday, 30 August	Location: Aula Maxima
Chair	Jeroen Lamb	
09.30 - 10.15	Mike Jeffrey - Hidden nonlinearities of switching	
10.20 - 11.05	Chris Jones - Rate-Induced Tipping in Sys	stems of ODEs
11.10-11.40	Tea/coffee break	
11.40-12.10	Jan Sieber - Rate-dependence in shell buc	kling problems
12.15 - 12.45	Paul Ritchie - Searching for UK ecosystem	tipping points in a land-
	surface model	
12.50 - 15.00	Lunch break	
Chair	Peter Ashwin	
15.00 - 16.00	Panel Discussion	
16.00-18:00	CRITICS Steering Committee Meeting	
	(Committee Members only)	

Time	Friday, 31 August Location: Civil Engineering Building Room CE G10	
Chair	Chris Jones	
09.30 - 10.15	Andrew Keane - Bifurcations and multi-frequency tipping in a pe-	
	riodically forced delay differential equation	
10.20 - 11.05	Johan Dubbeldam - Weighted multilayer competition fosters struc-	
	tural stability of mutualistic ecosystems	
11.10-11.40	Tea/coffee break	
11.40-12.10	Sajjad Bakrani - Invariant Manifolds of a homoclinic orbit in a 4D	
	system with a first integral and a \mathbb{Z}_2 symmetry	
12.15 - 12.45	Andreas Amann - The Devil is in the Spectrum: The Eigenvalue	
	Distribution of the Discrete Preisach Memory Model	
12.50	Closing remarks	
13.00-15.00	Lunch break	