Clinical Neurophysiology Practice 2 (2017) 206-213



Contents lists available at ScienceDirect

Clinical Neurophysiology Practice

journal homepage: www.elsevier.com/locate/cnp

Review article

Connectome: Graph theory application in functional brain network



Fabrizio Vecchio ***, Francesca Mira
*Brain Connectivity Laboratory: IRCCS Sun Refluete Pissona
*Institute of Neurology: Dept. Generatics. Neuroscience & G

ARTICLE INFO

Received 20 February 2017 Received in revised from 28 July 2017 Accepted 6 September 2017 Available online 24 October 2017

Keywords: Graph theory

Functional connectivity EEG eLORETA

eLORETA Resting-state networks

CONCEPTS & SYNTHESIS

Ecology, 82(5), 2001, pp. 1205-1218 0 2001 by the Ecological Society of America

¹Nicholas School

2National Center

Abstract. Eco

represent the land A graph represent degree by edges t well developed in

plications, siting p present an overvie connectivity in he

pulation theory is hypothetical lands

that a simple grap

to decisions about

nectivity. We then

function metapon

spite substantial le

LANDSCAPE CONNECTIVITY: A GRAPH-THEORETIC PERSPECTIVE

nterface

J. R. Soc. Interface (2005) 2, 295–307 doi:10.1098/rsif.2005.0051 Published online 20 June 2005

REVIEW

Networks and epidemic models

Matt J. Keeling^{1,†} and Ken T. D. Eames²

¹Department of Biological Sciences & Mathematics Institute, University of Warwick, Gibbet Hill Road, Coventry CV4 7AL, UK ²Department of Zoology, Downing Street, Cambridge CB2 3EJ, UK

Networks and the epidemiology of directly transmitted infection discusses are fundamentally induced. The foundations of epidemiology and early epidemiological models were been population with readous-mixing, but in practice can individual has a finite e set of contexts or produced to the contract of the set of the context of the contract of the network allows models to compare the epidemiological distribution of the production of the contract of the network allows models to compare the epidemiological at the population scale from the individual-level behaviour of infections. Therefore, our contract the production of the contract of the network allows are contracted to the contract of the contraction of the

prediction of epidemic patterns and intervention Here, we review the basis of epidemical theory (based on another-siting models) and the contract of the situation of the situ

Keywords: transmission; infection; contact-tracing; random network; small-world network;