

## Papers relating to group members' research

Please see the following papers for insight into what various group members are working on.

### **Kate Burleson-Lesser**

[Theories for influencer identification in complex networks](#), S. Pei, F. Morone, and H.A. Makse (in *Spreading Dynamics in Social Systems*, Lehmann and Ahn, eds.)

[Information Theory and Statistical Mechanics](#), E.T. Jaynes

[Exact Covariance Thresholding into Connected Components for Large-Scale Graphical Lasso](#), R. Mazumder and T. Hastie

[Systemic risk in banking ecosystems](#), A.G. Haldane and R.M. May

### **Francesca Arese Lucini**

[Cerebral mechanisms of word masking and unconscious repetition priming](#), S. Dehaene *et al.*

[Influence maximization in complex networks through optimal percolation](#), F. Morone and H.A. Makse

### **Qiongge Li**

[The Human Connectome: A Structural Description of the Human Brain](#), O. Sporns, G. Tononi, and R. Kötter

[Network attributes for segregation and integration in the human brain](#), O. Sporns

[Model of brain activation predicts the neural collective influence map of the brain](#), F. Morone, K. Roth, B. Min, H.E. Stanley, and H.A. Makse

[A small world of weak ties provides optimal global integration of self-similar modules in functional brain networks](#), L.K. Gallos, H.A. Makse, and M. Sigman

### **Zhenhua Wang**

[A phenomenological model of seizure initiation suggests network structure may explain seizure frequency in idiopathic generalised epilepsy](#), O. Benjamin *et al.*

[Neural excitability, spiking and bursting](#), E.M. Izhikevich

[A small change in neuronal network topology can induce explosive synchronization transition and activity propagation in the entire network](#), Z. Wang, C. Tian, M. Dhamala, and Z. Liu

### **Shaojun Luo**

[VoxResNet: Deep Voxelwise Residual Networks for Volumetric Brain Segmentation](#), H. Chen, Q. Dou, L. Yu, and P.A. Heng

[Deep learning](#), Y. LeCun, Y. Bengio, and G. Hinton

Deep Residual Learning for Image Recognition, K. He, X. Zhang, S. Ren, and J. Sun

Dermatologist-level classification of skin cancer with deep neural networks, A. Esteva *et al.*

### **Jinjun Jiang**

Advanced Capabilities for Wind Tunnel Testing in the 21<sup>st</sup> Century, J.T. Kegel-  
man and P.M. Danehy

Control Profiles of Complex Networks, J. Ruths and D. Ruths

Higher-order organization of complex networks, A.R. Benson, D.F. Gleich, and  
J. Leskovec

Experimental study of thin film sensor networks for wind turbine blade damage  
detection, A. Downey, S. Laflamme, F. Ubertini, H. Sauder, and P. Sarkar

Maps of random walks on complex networks reveal community structure, M.  
Rosvall and C.T. Bergstrom

Unsteady Aerodynamics Experiment Phase VI: Wind Tunnel Test Configura-  
tions and Available Data Campaigns, M.M. Hand *et al.*

Full-Scale/Model Test Comparisons to Validate the Traditional ABL Wind Tun-  
nel Simulation Technique: A Literature Review, X.X. Cheng, J. Dong, Y. Peng,  
L. Zhao, and Y.J. Ge

### **Jiannan Wang**

Validation of Twitter opinion trends with national polling aggregates: Hillary  
Clinton vs Donald Trump, A. Bovet, F. Morone, H.A. Makse

### **Zhuo Yin**

Structure and function of complex brain networks, O. Sporns

Sparse inverse covariance estimation with the graphical lasso, J. Friedman, T.  
Hastie, and R. Tibshirani

The MVGC multivariate Granger causality toolbox: A new approach to Granger-  
causal inference, L. Barnett and A.K. Seth

### **Tianyu Wang**

Network repair based on community structure, T. Wang, J. Zhang, X. Sun, and  
S. Wandelt

Spontaneous recovery in dynamical networks, A. Majdandzic *et al.*