

## PUBLICATIONS

### JOURNAL ARTICLES

- [13] R. Marguta, **A. Parisi**, *Periodicity and synchronization in pre-vaccination measles*. J. R. Soc. Interface, **13**, 20160258 (2016) doi: 10.1098/rsif.2016.0258.
  - [12] R. Marguta, **A. Parisi**, *Impact of human mobility on the periodicities and mechanisms underlying measles dynamics*, J. R. Soc. Interface, **12**, 20141317 (2015) doi: 10.1098/rsif.2014.1317.
  - [11] **A. Parisi**, J.S. Lopes, A. Nunes, G. Gomes, *Heterogeneity in antibody range and the antigenic drift of influenza A viruses*, *Ecological Complexity*, **14**, 157 (2013) doi:10.1016/j.ecocom.2012.12.001
  - [10] S. Wieland, **A. Parisi**, A. Nunes, *Detecting and describing dynamic equilibria in adaptive networks*, *European Physics Journal – Special Topics*, **212**(1), 99-113 (2012).
  - [9] P.F.N. Faisca, R.D.M. Travasso, **A. Parisi**, A. Rey, *Why do protein folding rates correlate with metrics of native topology?*, *PLoS ONE*, 7(4), e35599 (2012).
  - [8] **A. Parisi**, M. Plapp, *Defects and multistability in eutectic solidification patterns*, *Europhysics Letters*, **90**(2), 26010 (2010).
  - [7] M. Perrut, **A. Parisi**, S. Akamatsu, S. Bottin-Rosseau, G. Faivre, M. Plapp, *Role of transverse temperature gradients in the generation of regular eutectic directional-solidification patterns*, *Acta Materialia*, 58(5), 1761 (2010).
  - [6] A.J. Black, A.J. McKane, A. Nunes, **A. Parisi**, *Stochastic fluctuations in the SIR model with distributed infectious periods*, *Physical Review E*, 80, 021922 (2009).
  - [5] **A. Parisi**, M. Plapp, *Stability of lamellar eutectic growth*, *Acta Materialia*, **56**(6), 1348 (2008).
- (between 2006 and 2008 I was trying to set up a business. I was working on a tool aimed to researchers for fast development of computer simulations)
- [4] **A. Parisi**, R.C. Ball, *Relation between driving energy, crack shape and speed in brittle dynamic fracture*, *Physical Review B*, **72**(5), 054101 (2005).
  - [3] **A. Parisi**, R.C. Ball, *Role of surface waves in the relation between crack speed and the work of fracture*, *Physical Review B*, **66**(16), 165432 (2002).
  - [2] **A. Parisi**, G. Caldarelli, L. Pietronero, *Roughness of fracture surfaces*, *Europhysics Letters*, **52**(3), 304-310 (2000).
  - [1] **A. Parisi**, G. Caldarelli, *Self-affine properties of fractures in brittle materials*, *Physica A*, **280**, 161-165 (2000).

### PROCEEDINGS AND BOOK CHAPTERS

- [8] R. Marguta, **A. Parisi**. *Human mobility and the dynamics of infectious diseases in large geographical areas*. in Proceedings of ECCS 2014, Springer Proceedings in Complexity, pp 169-179 (2016).

- [7] N. Stollenwerk, U. Skwara, L. Aceto, E. Daude, R. Marguta, L. Mateus, P. Ghaffari, **A. Parisi**, M. Aguiar. *Power law jumps and power law waiting times, fractional calculus and human mobility in epidemiological systems*, in "Proceedings of the 15<sup>th</sup> Conference on Computational and Mathematical Methods in Science and Engineering, CMMSE 2015", ed. By J.V.- Aguiar, CMMSE (2015), pp. 1073-1085
- [6] R. Marguta, **A. Parisi**, *Human mobility and measles*, in "Proceedings of the 14<sup>th</sup> Conference on Computational and Mathematical Methods in Science and Engineering, CMMSE 2014", ed. By J.V.- Aguiar, CMMSE (2014), Vol. 3, pp. 868-870
- [5] R. Marguta, **A. Parisi**, *Stochastic amplification and childhood diseases in large geographical areas*, in "Proceedings of the 13<sup>th</sup> Conference on Computational and Mathematical Methods in Science and Engineering, CMMSE 2013", ed. by I.P. Hamilton & J.V.- Aguiar, CMMSE (2013), Vol. 3, pp. 1001-1005
- [4] S. Wieland, T. Aquino, **A. Parisi**, A. Nunes, *Characterizing Steady-State Topologies of SIS Dynamics on Adaptive Networks*, Proceedings of the European Conference on Complex Systems ECCS2010.
- [3] **A. Parisi**, R. C. Ball, *Consequences of acoustic emission on crack speed and roughness exponent in brittle dynamic fracture*, in "Earthquakes and Acoustic Emission", ed. by A. Carpinteri and G. Lacidogna, Taylor & Francis (2007).
- [2] **A. Parisi**, M. Plapp, S. Akamatsu, S. Bottin-Rosseau, M. Perrut, G. Faivre, *Three-dimensional phase-field simulations of eutectic solidification and comparison to in situ experimental observations*, in "Modeling of Casting, Welding and Advanced Solidification Processes – XI", ed. by C.-A. Gandin and M. Bellet, The Mineral Metals & Materials Society (2006).
- [1] M. Dejmek, R. Folch, **A. Parisi**, M. Plapp, *Three-dimensional phase-field simulations of directional solidification*, in "Solidification Processes and Microstructures: a symposium in honor of Prof. W.Kurz"; The Minerals, Metals & Materials Society (2004).