

## Bibliografia\*

- Albert, R., and A. L. Barabasi (2002), Statistical mechanics of complex networks, *Rev. Mod. Phys.*, 74, 47-97.
- Bak, P., Tang, C., Wiesenfeld, K. (1987), Self-organized criticality, *Phys. Rev. Lett.*, 59, 3813-384.
- Bak, P., Tang, C., Wiesenfeld, K. (1988), *Phys. Rev. A*, 38, 364.
- Bak, P., Paczuski, M. (1993), *Phys. World*, 6(12), 39.
- Banavar, J. R., Maritan, A, Rinaldo, A. (1999), Size and form in efficient transportation network, *Nature*, 399, 130-134.
- Banavar, J. R., Maritan, A, Rinaldo, A. (2000), Topology of the fittest network, *Phys. Rev. Lett*, 84, 4745-4748.
- Banavar, J. R., Damuth, J, Maritan, A, Rinaldo, A. (2002), Supply demand balance and metabolic scaling, *Proc. Natl. Acad. Sci. U.S.A.*, 99, 16, 10506-10509.
- Barabasi, A. L., Albert, R. (1999), Emergence of scaling in random networks, *Science*, 286, 509-512.
- Barabasi, A. L., Albert, R., Jeong H. (2000), Scale-free characteristics of random networks: The topology of the World-Wide Web, *Physica A*, 281, 69-77.
- Bell Junr., W.A (1869), On the Physical Geography of the Colorado Basin and the Great Basin Region of North America.
- Bellin, A. (1991), *Numerical Generation of Random Fields with Specified Spatial Correlation Structure*, Quaderni del Dipartimento, DICA, Università degli Studi di Trento.
- Bellin, A., Rubin, R. (1996b), *HYDROGEN, A New Method for the Generation of Random Functions*, Code Descriptions and User's Guide.

- Caldarelli, G. (2005), *Scale-Free Networks, Complex Webs in Natural, Technological and Social Sciences*, Oxford University Press.
- Capra, F. (1997), *The Web of Life*, Doubleday-Anchor Book, New York, and Center for Ecoliteracy, Berkeley, CA.
- Castillo C. (2004), Effective Web Crawling, PhD Thesis, Center for Web Research, *University of Chile*, Chile (vedi <http://www.chato.cl/534/article-63160.html>).
- Chandrasekhar, S. (1943), Stochastic Problems in Physics and Astronomy, *Rev. Mod. Phys.*, 15, 1.
- Colaioni, F., Flammini, A., Maritan, A., Banavar, J. R. (1997), Analytical and numerical study of optimal channel networks, *Phys. Rev. E*, 55, 1298-1302.
- Colizza, V. (2004), Statistical mechanics approach to complex networks: From abstract to biological networks, Ph.D. dissertation, *Int. Sch. for Adv. Stud. (SISSA-ISAS)*, Trieste, Italy.
- Convertino, M. (2006a), "Determinazione della risposta idrologica a scala di evento, del bacino del fiume Taloro, chiuso a Gavoi (NU), tramite il Modello Geomorfologico", esercitazione corso di Idrologia, Prof. M. Marani, IMAGE Dept., UniPd, A.A. 2005/2006.
- Convertino, M. (2006b), Le FluidTurtle per lo studio delle Optimal Channel Networks: basi teoriche ed applicazioni, *Manuale in corso di realizzazione*.
- Dodds, P. S., Rothman, D. H. (1999), Unified view of scaling laws for river networks, *Phys. Rev. E*, 59(5), 1298-13
- Dodds, P. S., Rothman, D. H. (2000), Scaling, Universality and Geomorphology, *Annu. Rev. Earth Planet. Sci.*, 2000, 28.
- Dodds, P. S., Rothman, D. H., Weitz, J. S. (2003), Re-examination of the "3/4-law" of Metabolism, *J. Theor. Biol.*, 28, 571-583.
- Hwa, T., Kardar, M. (1992), *Phys. Rev. A*, 45, 7002.
- Flake, G.W. (1998), *The Computational Beauty of Nature: Computer Explorations of Fractals, Chaos, Complex Systems, and Adaptation*, MIT Press, Cambridge, Boston, USA.

- Frame, M. (2000), Review of " *The Computational Beauty of Nature: Computer Explorations of Fractals, Chaos, Complex Systems, and Adaptation*", *The American Math. Monthly*, 107, 6.
- Kauffman, S., Johnsen S. J. (1991), *J. Theor. Biol.*, 149, 467-506.
- Kauffman, S. (1993), *The Origins of Order*, Oxford University Press, New York.
- Leopold, L. B., Wolman, M. G., Miller, J. P. (1964), *Fluvial Processes in Geomorphology*, W. H. Freeman, San Francisco.
- Lin, S. (1965), Computer solutions for the travelling salesman problem, *Bell Syst. Tech. J.*, 44, 2245-2258.
- Lovejoy, S., Schertzer, D. (2006), Multifractals, cloud radiances and rain, *Journ. of Hydrology*, 328, 1-2.
- Marani, M., D'Alpaos A., Belluco, E., Lanzoni, S., Rinaldo A. (2002), Tidal meanders, *Water Resour. Res.*, 38 (11), 1225.
- Marani, M., Lanzoni, S., Belluco, E., D'Alpaos A., Defina, A., Rinaldo A. (2003), On the drainage density of tidal networks, *Water Resour. Res.*, 39 (2), 1040.
- Marani, M. (2005), *Processi e Modelli dell'Idrometeorologia*, dispensa corso di Idrologia, Dipartimento I.M.A.G.E., Università di Padova.
- Miramontes, O., Solé, R. V., Goodwin, B. C. (1993), 63D, 145, *Physica* (Amsterdam).
- Newman, M. E. J. (2001a), Scientific collaboration networks I: network construction and fundamental results, *Physical Review E*, 64, 016131.
- Newman, M. E. J. (2001b). Scientific collaboration networks II: shortest paths, weighted networks, and centrality, *Physical Review E*, 64, 016132.
- Newman, M. E. J. (2005), Power laws, Pareto distributions and Zipf's law, *Contemporary Physics*, 46, 323-351.
- Painter, P. R., Haff, P. K., Banavar, J. R., Maritan, A., Rinaldo, A. (2000), Scaling: Rivers, blood and transportation networks, *Nature*, 408, 6809, 159-161.

- Passalacqua, P., Porté-Agel, F., Foufoula-Georgiou, E., Paola, C. (2006), Application of dynamic subgrid-scale concepts from large-eddy simulation to modeling landscape evolution, *Water Resour. Res.*, 42, W06D11.
- Rodriguez Iturbe, I., Bras, R. L., Ijjasz-Vasquez, E., Tarboton, D. G. (1992), *Water Resour. Res.*, 28, 988.
- Rodriguez Iturbe, I., Rinaldo, A. (1997 e 2001), *Fractal River Basins, Chance and Self Organization*, Cambridge University Press, New York.
- Rigon, R., Zanotti, F. (2002), The FluidTurtle Library Version 0.750, Users and Programmers Guide, DICA-CUDAM, Università di Trento.
- Rigon, R., Ghesla, E., Tiso, C., Cozzini, A. (2006a), The HORTON machine: a system for DEM analysis, DICA-CUDAM, Università di Trento.
- Rigon, R., Vitti, A., Antonello, A., Franceschi, S. (2006b), JGrass 2.0 Manuale Utente, DICA-CUDAM, Università di Trento, HydroloGIS, Bolzano (see <http://www.hydrologis.com/>).
- Rinaldo, A., Rodriguez Iturbe, I., Rigon, R., Bras, R. L., Ijjasz Vasquez, E., Marani, A. (1992), Minimum energy and fractal structures of drainage networks, *Phys. Rev. Lett.*, 70, 822-826.
- Rinaldo, A., Maritan, A., Colaiori, F., Flammini, A., Swift, M. R., Rigon, R., Banavar, J. R., Rodriguez Iturbe, I. (1996), On feasible optimality, *Istituto Veneto di Scienze, Lettere e Arti*, Nota 14/12/'96, Tomo CLV ('96-'97).
- Rinaldo, A., Banavar, J. R., Maritan, A. (2006), Tree, networks, and hydrology, *Water Resour. Res.*, 42, W06D07.
- Scheidegger, A. E. (1967), A stochastic model for drainage patterns into an intramontane trench, *Bull. Assoc. Sci. Hydrol.*, 12, 15-20.
- Schumm, S. A. (1977), *The Fluvial System*, J. Wiley, New York.
- Sivakumar, B. (2004), Chaos theory in geophysics: Past, present and future, *Chaos Solitons Fractals*, 19(2), 441-462.
- Solé, R. V., Miramontes, O. (1995), Information at the edge of chaos in fluid neural networks, *Physica D*, 80, 171-180.
- Takayasu, H., Nishikawa, I., Tasaki, H. (1988), Power-law mass distribution

of aggregation systems with injection, *Phys. Rev. A*, 37, 31103117.

Takayasu, H., Takayasu, M., Provata, A., Huber, G. (1991a), Steady-state distribution of generalized aggregation systems with injection, *J. Stat. Phys.*, 65, 725-739.

Takayasu, H., Takayasu, M., Provata, A., Huber, G. (1991b), Statistical models of river networks, *J. Stat. Phys.*, 65, 725-745.

Tarboton, D. G. (2006), Terrain Analysis Using Digital Elevation Models (TauDEM), CEE Dept. Utah State University at Logan (vedi web-page).

Vázquez, A., Flammini, A., Maritan, A., Vespignani, A. (2003), Modeling of protein interaction networks, *Complexus*, 1, 38.

Watts, D. J., Strogatz, S. H. (1998), Collective dynamics of "small-world" networks, *Nature*, 393, 440-442.

Watts, D. J. (1999), *Small-worlds: The Dynamics of Networks between Order and Randomness*, Princeton University Press, Princeton, NJ, U.S.A.

Watts, D. J. (2003), *Six degrees: The Science of a Connected Age*, Norton.

West, G. B., Brown, J. H., Enquist, B. J. (1997), A General Model for the Origin of Allometric Scaling Laws in Biology, *Science*, 276, 122-126.

West, G. B., Brown, J. H., Enquist, B. J. (1999), The fourth dimension of life: fractal geometry and allometric scaling of organisms, *Science*, 284, 1677-1679.

\* Sono state consultate alcune parti di ulteriori articoli e pubblicazioni non riportati, principalmente dei Professori Rinaldo A., Maritan A., Rigon R., Rodriguez-Iturbe I., Marani M., e degli autori citati nelle bibliografie dei loro lavori.