

Faculty - Daniele Veneziano

Faculty

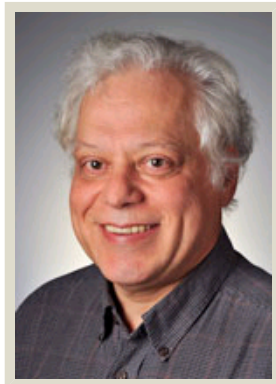
Lecturers

Researchers

Postdocs

Staff

Printer-friendly version



Daniele Veneziano

Professor

Head of the CEE Materials, Infrastructure and Systems Group (Pierce Laboratory)

MIT

Room 1-348

77 Massachusetts Avenue

Cambridge, MA, 02139

Telephone: 617.253.7199

Email: venezian@mit.edu

Assistant: Jeanette Marchock / jmmarch@mit.edu

Education

- Laurea in Architecture 1970, University of Florence, Italy
- Ph.D. in Civil Engineering 1974, MIT

Research Interests

- Natural Hazards
- Risk Assessment for Engineering Systems
- Stochastic Hydrology and Geomorphology
- Scale-Invariant Phenomena

Teaching Interests

- Probability and Statistics in Engineering
- Risk Analysis

Selected Publications

1. D. Veneziano, R. L. Bras, and J. D. Niemann, "Nonlinearity and Self-similarity of Rainfall in Time and a Stochastic Model," *J. Geophys. Res. -Atmospheres*, 101(D21): 26,371-26,392, 1996.
2. D. Veneziano and P. Villani, "Identification of Rain Cells from Radar and Stochastic Modelling of Space-time Rainfall," *Meccanica*, 31: 27-42, 1996.
3. D. Veneziano, and J. Van Dyck, "Risk Analyses for the Messina Bridge," in *Bridge Aerodynamics*, Larsen and Esdahl (eds.), Balkema, 1998.
4. D. Veneziano and A. G. Papadimitriou, "Optimization of the Seismic Early Warning System for the Tohoku Shinkansen," *Proceedings, 11th European Conf. On Earthquake Engineering*, Balkema, Rotterdam, 1998.
5. D. Veneziano and V. Iacobellis, "Self-similarity and Multifractality of Topographic Surfaces at Basin and Sub-basin Scales," *J. Geophys. Res.*, 104(B6): 12,797-12,812, 1999.
6. D. Veneziano and P. Villani, "Best Linear Unbiased

- Hyetograph." *Water Resour. Res.*, 35(9): 2725-2738, 1999.
7. D. Veneziano, "Basic Properties and Characterization of Stochastically Self-similar Processes in Rd," *Fractals*, 7(1): 59-78, 1999.
 8. D. Veneziano and P. Furcolo, "A Modified Double Trace Moment Method of Multifractal Analysis," *Fractals*, 7(2): 181-195, 1999.
 9. D. Veneziano and J. D. Niemann, "Self-similarity and Multifractality of Fluvial Erosion Topography: 1. Mathematical Conditions and Physical Origin," *Water Resour. Res.*, in print, 2000.
 10. D. Veneziano and J. D. Niemann, "Self-similarity and Multifractality of Fluvial Erosion Topography: 2. Scaling Properties," *Water Resour. Res.*, in print, 2000.
 11. D. Veneziano, "Uncertainty Quantification and Decision in Complex Projects with Long-lasting Consequences," *Nuclear Waste Technical Review Board Meeting*, Las Vegas, 2000.
 12. D. Veneziano, G. E. Moglen, P. Furcolo, and V. Iacobellis, "Stochastic Model of the Width Function," *Water Resour. Res.*, in print, 2000



Massachusetts Institute of Technology Department of Civil and Environmental Engineering
77 Massachusetts Avenue, Room 1-290 ■ Cambridge, MA 02139-4307 ■ (617) 253-7101

