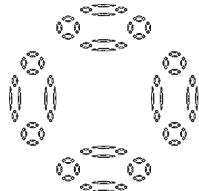


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BOOK CHAPTERS

R. H. RIEDI
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W. WILLINGER, V. PAXSON, R. RIEDI AND M. S. TAQQU
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R. H. RIEDI
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 pp 53–100, in "Lois d'échelle et Fractals", eds. Abry, Goncalves, Levy-Vehel
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J. LEVY-VEHEL AND R. H. RIEDI
Fractional Brownian motion and data traffic modeling: The other end of the spectrum
 pp 185–202, in 'Fractals in Engineering' eds. Levy-Vehel, Lutton, Tricot, (Springer 1997).

JOURNAL PAPERS

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J. American Statistical Association, **100** (472), 1382–1393, (December 2005).

P. CHAINAIS, R. RIEDI, AND P. ABRY
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P. CHAINAIS, R. RIEDI, AND P. ABRY
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A. KESHAVARZ-HADDAD, V. RIBEIRO, R. RIEDI
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R. KING, R. RIEDI, AND R. BARANIUK
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P. CHAINAIS, R. RIEDI, P. ABRY
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S. SARVOTHAM, X. WANG, R. H. RIEDI AND R. G. BARANIUK
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V. ALMEIDA, D. MENASCE, R. RIEDI, F. RIBEIRO, R. FONSECA, AND W. MEIRA JR.
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D. MENASCE, V. ALMEIDA, R. RIEDI, F. RIBEIRO, R. FONSECA, AND W. MEIRA JR.
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In Search of Invariants for E-Business Workloads
Proc. EC'00, ACM Conference on Electronic Commerce, IMA, Minneapolis, MN, October 2000.

V. J. RIBEIRO, M. COATES, R. H. RIEDI, S. SARVOTHAM, B. HENDRICKS AND R. G. BARANIUK
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JUSTIN K. ROMBERG, ROLF RIEDI, HYEOKHO CHOI, AND RICHARD G. BARANIUK
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RAMESH NEELAMANI, JUSTIN ROMBERG, HYEOKHO CHOI, RUDOLF RIEDI, AND RICHARD BARANIUK
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Proceedings of IEEE INFOCOM 2000, Tel Aviv, Israel, March 2000.

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Proceedings ACM SigMetrics'99, Atlanta, GA, May 1999.

P. MANNERSALO, I. NORROS AND R. H. RIEDI
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Network Traffic Modeling using a Multifractal Wavelet Model
Proceedings of 5 th Internat. Symp. on DSP for Communication Systems, Perth, Australia, February 1999.

P. GONÇALVES, R. H. RIEDI, AND R. G. BARANIUK
A Simple Statistical Analysis of Wavelet-based Multifractal Spectrum Estimation
Proceedings of the 32nd Conference on “Signals, Systems and Computers”, Asilomar, CA, November 1998

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A Multifractal Wavelet Model for positive Processes
Proceedings of IEEE-SP Internat. Symp. on Time-Frequency and Time-Scale Analysis, Pittsburg, PA, October 1998.

R. H. RIEDI
Multifractals and Wavelets: A potential tool in Geophysics
SEG Conference, New Orleans, September 1998

M. S. CROUSE, R. H. RIEDI, V. J. RIBEIRO, AND R. G. BARANIUK
Multifractal Signal Models with Application to TCP Network Traffic
Proceedings of DSP workshop, Bryce, UT, August 1998.

RUDOLF H. RIEDI
Discontinuous Measures and a Failure of the Multifractal Formalism
Proc. Workshop on “Fractals and Dynamics”, appeared as “Mathematica Goettingensis” **5** (1997) pp 23–29.

RECENT INVITED TALKS AND LECTURES

August 2006	Summer School <i>Stochastic Control in Computer Science and Finance</i> , TU Kaiserslautern, Germany
May 2006	International Workshop on Applied Probability, Univ. of Connecticut
February 2006	Colloquium, Dept. Industrial and Systems Engineering, Texas A&M University
June 2005	Workshop on <i>Statistics and Computing</i> , Hailuoto, Finland
May 2005	Statistics Seminar, Los Alamos National Lab, NM
April 2005	Workshop on <i>Heavy Tails and Long Range Dependence</i> , Mathematics and OR at Cornell, Ithaca, NY
November 2004	DARPA workshop on <i>Network Management Systems</i> , Monterey, CA
November 2004	Colloquium, Dept. of Statistics, Texas A&M University, College Station, TX
October 2004	Colloquium, CAM, Cornell University, Ithaca, NY
July 2004	Summer School on <i>Wavelet and Multifractal Analysis</i> , Corsica, France
June 2004	Seminar, Computer Communications Lab, I&C, EPFL, Lausanne, Switzerland
May 2004	Lehmann Symposium on <i>Optimality</i> , Rice University, Houston TX
April 2004	Fractal 2004, Conference on <i>Complexity and Fractals in Nature</i> , Vancouver, Canada
March 2004	CoTS Conference of Texas Statisticians, Nacogdoches, TX
March 2004	Workshop on <i>Powerlaws in probability and statistics</i> , Luminy-Marseille, France
January 2004	DARPA workshop on <i>Network Management Systems</i> , Miami, FL
October 2003	SAMSI workshop on Network Traffic Modeling, UNC, NC
May 2003	DARPA workshop on <i>Network Management Systems</i> , San Diego, CA
April 2003	Mathematics Colloquium, Univ. Freiburg, Switzerland

April 2003	Computer Engineering and Networks Laboratory, ETH Zurich, Switzerland
March 2003	Geometry and Analysis Seminar, Dept. of Mathematics, Rice
February 2003	Colloquium, Dept. of Statistics, Rice
November 2002	DARPA workshop on <i>Network Management Systems</i> , Chicago, IL
June 2002	Pedofract 2002, International Workshop on "Fractal Mathematics", El Barco de Avila, Spain
June 2002	Universidad Politcnica de Madrid, Madrid, Spain
April 2002	DARPA workshop on <i>Network Management Systems</i> , Baltimore, Maryland
February 2002	EE Dept., Purdue University, Lafayette, Indiana
January 2002	Virtual Worlds and Simulation conference, SCS, San Antonio, TX
January 2002	AMS Meeting, <i>Special Session in honor of B. Mandelbrot</i> , San Diego, CA

RECENT CONFERENCE ACTIVITIES

July 2006	Conference on <i>Stochastic Processes and Their Applications</i> , Paris, France
September 2005	Workshop on <i>Non-linear and Non-stat. Time Series in Comp. Finance</i> , TU Kaiserslautern, Germany
August 2005	Joint Statistical Meeting of ASA and IMS, Minneapolis, MN
March 2005	Infocom 2005 on <i>Computer communications and networking</i> , Miami, FL
July 2004	Celebrating Statistics: Internat. Conf. in <i>Honor of Sir David Cox</i> , Univ. Neuchatel, Switzerland
July 2004	EPFL-I&C Research Day on <i>Self-organized Wireless Communication Systems</i> , Switzerland
June 2004	Swiss Probability Seminar, Institute of Mathematical Statistics, University of Berne, Switzerland
September 2003	IEEE workshop on Statistical Signal Processing, St. Louis, MO
August 2003	Joint Statistical Meeting of ASA and IMS, San Francisco, CA
July 2003	3rd Workshop on Appl and Services in Wireless Networks, Berne, Switzerland
August 2002	Session "Internet Performance and QoS" at SPIE 2002 Boston, MA
May 2002	Colloque "Autosimilart et Applications" Clermont-Ferrant, France
May 2002	Workshop on "Turbulence : Measurements and Signals", Cargese, France
February 2002	DIMACS workshop on <i>Internet and WWW measurement, mapping, and modeling</i> , Rutgers, NJ

INVITATIONS, CONFERENCES, SEMINARS PRIOR TO 2002

November 2001	ACM SIGCOMM <i>Internet Measurement Workshop</i> , San Francisco, CA
October 2001	DARPA workshop on <i>Network Management Systems</i> , Atlanta, Georgia
October 2001	16th IEEE Annual Workshop on <i>Computer Communications</i> , Charlottesville, VA
September 2001	Meeting of the Amer. Math. Soc., Special Session on Fractals, Columbus, Ohio
July 2001	Visiting Researcher, EMU lab, Dept. EE, Melbourne University, Australia
June 2001	Visiting Professor, Dept. Physics, ENS, Lyon, France
April 2001	DIMACS workshop on Wavelet Analysis and Digital Processing, Rutgers, NJ
April 2001	Sprint Labs, Burlingame, CA
April 2001	DARPA workshop on <i>Network Management Systems</i> , La Jolla, CA
March 2001	Workshop on <i>Modelling and Analysis of Network Data</i> Nat. Inst. Stat. Sci., NC
December 2000	Conference on Mathematics in Signal Processing IMA, Warwick Univ., UK
December 2000	Mathematics Seminar, St. Andrews University, UK
September 2000	DARPA workshop on <i>Network Management Systems</i> , Albuquerque, New Mexico
September 2000	ITC Specialist Seminar on <i>IP Traffic Measurement, Modeling and Management</i> , Monterey, CA

June 2000	Conference on <i>Stochastic Networks</i> , University of Wisconsin-Madison
May 2000	Budapest University of Technology and Economics, Hungary
May 2000	Physics Dept. Eötvös University, Budapest, Hungary
May 2000	Workshop on High Speed Networking Balatonfüred, Hungary
May 2000	Center for Satellite and Hybrid Communication Networks, Univ. Maryland, College Park, ML
April 2000	Dept. of Statistics, Univ. North Carolina, Chapel Hill, NC
March 2000	InfoComm 2000 on <i>Computer communications and networking</i> , Tel Aviv, Israel
October 1999	IMA Workshop on <i>Scaling phenomena in Communication Networks</i> , Minneapolis, MN
October 1999	14th IEEE Annual Workshop on <i>Computer Communications</i> , Estes Park, Colorado
June 1999	Finnish Summer School on <i>Probability Theory</i> , Lahti, Finland
June 1999	VTT National Research Labs, Helsinki, Finland
June 1999	Nokia Research Labs, Helsinki, Finland
May 1999	ACM Sigmetrics Conf. on <i>Measurement and Modeling of Computer Systems</i> , Atlanta, GA
March 1999	Dept. of Mathematics, Univ. Federal Minas Gerais, Belo Horizonte, Br
March 1999	Dept. of Computer Science, Univ. Federal Minas Gerais, Belo Horizonte, Br
January 1999	Isaac Newton Institute of Mathematical Science, Cambridge, UK
January 1999	Dept. of Statistical Mathematics, University of Cambridge, UK
January 1999	Dept. of Elec. Engin., University of Cambridge & Nortel Labs, Harlow, UK
November 1998	32nd Conference on <i>Signals, Systems and Computers</i> , Asilomar, CA
September 1998	SEG meeting 1998, Technical Session on <i>Novel transforms</i> , New Orleans, LA
September 1998	Conference on <i>Fractal Geometry and Stochastics II</i> , Usedom (Berlin), Germany
August 1998	IEEE workshop on <i>Digital Signal Processing</i> , Bryce Canyon, UT
May 1998	Gordon Research Conference on <i>Fractals</i> , Il Ciocco, Barga, Italy
March 1998	MSRI workshop on <i>Fine Properties of Stochastic Processes</i> , UC Berkeley, CA
March 1998	AMS meeting, Special Session on <i>Fractal Geometry</i> , Louisville, KT
March 1998	AT&T Research Labs, Florham Park, NJ
September 1997	Dept. of Mathematics, Rice University, Houston, TX
July 1997	Applied Probability Conference, Boston, MA
June 1997	Conference on Fractals in Engineering 1997, Arcachon, France
June 1997	Mathematisches Seminar, Dept. of Statistics, University of Berne, Switzerland
November 1996	Institute for Mathematical Stochastics, University Göttingen, Germany
October 1996	Mathematische Fakultät, Friedrich Schiller University, Jena, Germany
October 1996	Conference on em Performance Theory and Communication Systems, Lausanne, Switzerland
June 1996	Gordon Research Conference on <i>Fractals</i> , Henniker, NH, USA
April 1996	Spring School on <i>Long-range Dependent Processes</i> , Les Houches, France
February 1996	Seminaire CNET, France Telecom, Paris
June 1995	AMS Conference on <i>Smooth Dynamical Systems and Dimension Theory</i> , Seattle, WA
February 1995	Mathematical Seminar, Cornell University, Ithaca, NY
February 1995	Symposium <i>Fractal Geometry and Self-Similar Phenomena</i> , Curaçao
June 1994	Conference on <i>Fractal Geometry and Stochastics</i> , Finsterbergen, Germany
June 1994	Mathematische Fakultät, Friedrich Schiller University, Jena, Germany
May 1994	Gordon Research Conference on <i>Fractals</i> , San Miniato, Italy
March 1994	Colloquium in <i>Economics and Finance</i> , SCSU, New Haven, CT
January 1994	Institute National de la Recherche Informatique et Automatique, Paris, France
September 1993	Conference on <i>Fractals in the Natural and Applied Sciences</i> , London, England
August 1993	Conference on <i>Fractals in the Natural Sciences</i> , Budapest, Hungary

July 1993 Mathematische Fakultät, Jena, Germany
September 1992 Summer School on *Fractals*, Valencia, Spain
February 1992 Mathematisches Kolloquium, ETH Zürich, Switzerland
December 1989 State College of St.Gallen, Switzerland, Teachers Seminar

BOOK REVIEWS

"An Introduction to Statistical Signal Processing"
by Robert M. Gray and Lee D. Davisson,
review by Rudolf Riedi to appear in J. American Statistical Association, p 12 (September 2006).

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Research report 4647, INRIA Rhone-Alpes, Nov. 2002. Submitted to JASA.

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SOFTWARE

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Multifractal Wavelet Model: statistical analysis and model matching
Free software in C+ available at <http://www.stat.rice.edu/~riedi/soft.html#MWM>

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pathChirp: active probing for efficient available bandwidth estimation for network paths
Free software in C++ available at <http://www.stat.rice.edu/~riedi/soft.html#PathChirp>

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Infinitely Divisible Cascades: stationary, positive time series with prescribed scaling properties
Free Matlab code available at <http://www.stat.rice.edu/~riedi/soft.html#IDC>

P. GONCALVES AND R. RIEDI
A wavelet-based non-parametric estimator of the tail of a distribution
Free Matlab code available at <http://www.stat.rice.edu/~riedi/soft.html#DM>

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Alpha-beta: A connection level decomposition of network traffic into Gaussian and non-Gaussian components
Free software in C++ available at <http://www.spin.rice.edu/alphabeta/>