Books:


*Articles in Scientific Journals:*


[26] Voit, E.O. and P.F. Rust: Evaluation of the noncentral t distribution with S-


[40] Balthis, W.L., and E.O. Voit, and G.M. Meaburn: Setting prediction limits for mercury concentrations in fish having high bioaccumulation potential,
Environmetrics 7, 429-439, 1996.


[53] Voit, E.O. and N.V. Torres: Canonical modeling of complex pathways in


[150] Voit, E.O., Z. Qi, and S. Kikuchi: Mesoscopic models of biomedical systems as intermediates between disease simulators and tools for discovering design principles: Dopamine-related diseases as case study. *Pharmacopsychiatry* 45(S1), S22-S30, 2012.


[156] Yin, W., and E.O. Voit: Function and design of the Nox1 system in vascular


16


Chapters in Books and Proceedings:


the American Control Conference, June 4-6, 2003, Denver, CO.


[56] Voit, E.O. and M. L. Kemp: Systems biology graduate training in engineering


Other Publications:


[19] Voit, E.O.: Dr. Voit’s natural habitat. Pioneer, Biomedical Engineering, Georgia

**Book Reviews:**


**Abstracts:**


[53] Lou, Y., Z. Zhang, R.G. Knapp, and E.O. Voit: Computerized laboratory course


[95] Ferreira, A., A. Ponces, and E.O. Voit: A model of the interplay of Maillard-type


October 26, 2002.


[107] Voit, E.O.: Biomedical Informatics, Computational Biology, Systems Biology — If we don’t know what it is, how can we teach it? Southern Regional Conference on Statistics, Jekyll Island, GA, June 8-11, 2003.


[143] Voit, E.O.: Systems modeling. First International Conference of AB3C, the Brazilian Association for Bioinformatics and Computational Biology. Caxambu, Brazil, October 4-7, 2005.


[147] Polisetty, P.K., E.O. Voit, E.P. Gatzke: Deterministic Global Optimization Techniques for Solution of NLP and MINLP Problems Using Piecewise Linear Relaxations with Applications in Metabolic Engineering. AIChE Annual Meeting, Computing and Systems Technology Division, Cincinnati, Ohio, USA,
October 30-November 4, 2005.


[210] Voit, E.O.: Parameter estimation revisited (again!): Low SSE and speed are not enough. 11th International Conference on Molecular Systems Biology (ICMSB 2009), Max Planck Institute and Chinese Academy of Sciences, Shanghai, June 20-25, 2009.


[220] Kikuchi, S., Z. Qi, and E.O. Voit: Molecular mechanism of synaptic plasticity and


Conference on Cellular Information Processing, Los Alamos, NM, August 11-14, 2010.


alfalfa (*Medicago sativa* L.) data suggests novel mechanisms of metabolic regulation of monolignol biosynthesis. The XII International Congress on Molecular Systems Biology, Lleida, Spain, 8-12 May, 2011.


[258] Voit, E.O.: Pathway analysis. 2012 Winter School in Mathematical and Computational Biology, St. Lucia, Queensland, Australia, 2-6 July 2012.


[276] Yin, W., and E.O. Voit: Function and design of the Nox1 system in vascular smooth muscle cells. Frontiers in Systems and Synthetic Biology ’13, Atlanta


[280] Voit, E.O.: The challenge of infectious disease modeling. Workshop “From Within Host Dynamics to the Epidemiology of Infectious Disease.” Mathematical Biosciences Institute, Ohio State University, Columbus, OH, April 7-11, 2014.


December 15-17, 2014.


Publications as a Member of the Malaria Host-Parasite Interaction Center (MaHPIC) Consortium:


Invited Conference Speaker:


[29] Savageau, M.A., E.O. Voit, and A. Sorribas: Three-day short course on power-law modeling for doctoral students. Gulbenkian Institute, Oeiras, Portugal, October


[45] Voit, E.O.: Biomedical Informatics, Computational Biology, Systems Biology — If we don’t know what it is, how can we teach it? Southern Regional Conference on Statistics, Jekyll Island, GA, June 8-11, 2003.


[54] Voit, E.O.: Time series data open new avenues of metabolic systems analysis. International Conference on Molecular Systems Biology (ICMSB’04), Tahoe, Ca,


[64] Voit, E.O.: Teaching Interdisciplinary Courses in Integrative Biology, 2006 Systems Biology Symposium, National Taiwan University, Taipei, Taiwan, 18 January 2006.

[65] Voit, E.O.: Key Note Address: Topics in Systems Biology, 2006 Systems Biology Symposium, National Taiwan University, Taipei, Taiwan, 18 January 2006.


[67] Voit, E.O.: Small Systems Biology, Marine Eco-Genomics Workshop, Charleston,


[80] Voit, E.O.: Estimation of metabolic model parameters from time series data. MBI


Voit, E.O.: Estimation and identification of metabolic systems models from time-series data. Mathematical Theory of Networks and Systems, Virginia Tech,
Blacksburg, VA, July 28- August 1, 2008.


[116] Qi, Z., G.W. Miller, and E.O. Voit: Mathematical modeling of dopamine dynamics


[120] Voit, E.O. Computational systems biology: From simple models to system simulation and the discovery of design principles. German Conference on Bioinformatics, Weihenstephan, September 7-9, 2011.


[127] Voit, E.O.: Pathway analysis. 2012 Winter School in Mathematical and Computational Biology, St. Lucia, Queensland, Australia, 2-6 July 2012.


[136] Voit, E.O.: The challenge of infectious disease modeling. Workshop “From Within Host Dynamics to the Epidemiology of Infectious Disease.” Mathematical Biosciences Institute, Ohio State University, Columbus, OH, April 7-11, 2014.


Voit, E.O.: Computational Systems Biology, Disease Simulators, and Personalized Medicine, GRA Academy of Eminent Scholars, Atlanta, October 30, 2014.


Workshops Taught:


[8] Advanced FEBS Workshop in Biochemistry, Carcavelos, Portugal, September 7-


[22] Voit, E.O.: Introduction to systems biology. 2012 Winter School in Mathematical and Computational Biology, St. Lucia, Queensland, Australia, 2-6 July 2012.

[23] Voit, E.O.: Pathway analysis. 2012 Winter School in Mathematical and Computational Biology, St. Lucia, Queensland, Australia, 2-6 July 2012.


Seminars:

1983 Cybernetics Program, Universität Köln
   Department of Microbiology and Immunology, University of Michigan
   Division of Theoretical Medicine, Universität Köln (Series of three seminars)

1984 Zoologisches Institut, Universität Köln
   Landwirtschaftliches Institut, Universität Bonn
   Department of Biometry, Medical University of South Carolina

1985 Department of Chemical Engineering, University of Michigan

1986 Department of Microbiology and Immunology, University of Michigan
   Department of Mathematics, Pomona College
   Department of Biometry, Medical University of South Carolina (two seminars)

1987 Department of Statistics and Biometry, Emory University, Atlanta, Georgia
   Department of Statistics, University of Georgia, Athens, Georgia
   South Carolina Youth Academy of Sciences (Workshop)
   Department of Biometry, Medical University of South Carolina

1988 U.S. Department of Agriculture, Forest Service, Charleston, South Carolina
   Sigma Xi Society, Charleston Chapter
   National Seminar on Dynamical Systems, Akademie der Wissenschaften der DDR, Berlin, GDR
   Fachhochschule für Medizinische Informatik, Heilbronn, Germany
   Zoologisches Institut der Universität Köln, Köln, Germany
   Department of Biometry, Medical University of South Carolina
1989 Division of Biometrics, Food and Drug Administration, Washington, D.C. 
Center for Drug Evaluation and Research, Food and Drug Administration, Washington, D.C.

1990 Department of Biometry, Medical University of South Carolina 
Department of Biostatistics, University of South Carolina

1991 Department of Biostatistics, Epidemiology, and Systems Science, 
Medical University of South Carolina 
Board of Trustees, Medical University of South Carolina 
Fachbereich Mathematik/Informatik, Universität Osnabrück, Germany 
Office of Public Relations, Medical University of South Carolina

1992 Department of Biostatistics, Epidemiology, and Systems Science, 
Medical University of South Carolina 
Honeywell, Sensor and System Development Center 
South Carolina High School Teacher Association

1993 Division of Modeling, Cooperative Research Center for Temperate Hardwood 
Forestry, Hobart, Tasmania

1994 CSIRO Forestry and Cooperative Research Center for Temperate Hardwood 
Forestry, Hobart, Tasmania 
CSIRO Forestry, Headquarters, Canberra, Australia 
Board of Trustees, Medical University of South Carolina 
Department of Biometry and Epidemiology, 
Medical University of South Carolina

1996 Mu Sigma Rho Student Career Development Seminar, 
Medical University of South Carolina 
Department of Environmental Health Sciences, School of Public Health, 
University of South Carolina 
Catalan Biological Society, Universitat de Lleida, Departament de Ciències Mediques Bàsiques

1999 Department of Biometry and Epidemiology, 
Medical University of South Carolina 
Department of Pharmacology, 
Medical University of South Carolina

2000 Department of Biochemistry and Molecular Biology, 
Medical University of South Carolina 
Department of Biometry and Epidemiology, 
Medical University of South Carolina
2001  Department of Biochemistry and Molecular Biology, Medical University of South Carolina
       Marine Biomedicine Program, Medical University of South Carolina
       Metabolic Pathway Group
       Monsanto/Renessen, St. Louis
       Graduate School Exposure Program Medical University of South Carolina
       Departments of Pharmaceutical Sciences and Pharmacy Practice, Medical University of South Carolina

2002  Department of Molecular Cell Biology
       Georgia Institute of Technology
       Department of Chemistry and Biochemistry
       University of Lisbon, Portugal
       BioTechnology Institute
       University of Minnesota
       Proteomics Group
       Medical University of South Carolina

2003  Department of Bioinformatics
       University of Michigan
       Department of Biomedical Engineering
       Georgia Institute of Technology
       Marine Biomedicine Program
       Medical University of South Carolina
       Computer and Computational Sciences & Bioscience
       Los Alamos National Laboratories

2004  Proteomics Group
       Medical University of South Carolina
       Department of Mathematics
       Clemson University
       Department of Biostatistics, Bioinformatics and Epidemiology
       Medical University of South Carolina
       Department of Biology, National Dong Hwa University,
       Hua Lien, Taiwan
       Bioinformatics and Computational Biology Seminar
       Georgia Institute of Technology
       Bioinformatics Group
       North Georgia Technical College
       Computational Biology Center
       University of Georgia
       Agricultural University
       Ås, Norway
2005  Resource Centers for Minority Aging Research
      SC Cooperative for Healthy Aging in Minority Populations
      Charleston, SC
Seminar for Problem-Based Learning Group
      Georgia Institute of Technology
Department of Bioengineering
      University of Illinois at Urbana-Champaign
School of Applied Physiology
      Georgia Institute of Technology
Center for Nonlinear Science
      Georgia Institute of Technology
Bioinformatics Program
      Gulbenkian Institute, Oeiras, Portugal
Ludwig-Maximilian University
      Munich, Germany

2006  School of Mathematics
      Georgia Institute of Technology
Proteomics Center
      Medical University of South Carolina
Bioinformatics and Computational Biology Program
      Georgia Institute of Technology
Center for Nutrient Gene Interactions
      University of Alabama, Birmingham, AL
Department of Biostatistics, Bioinformatics, and Epidemiology
      Medical University of South Carolina
Bioinformatics Group
      North Georgia Technical College

2007  Computational and Life Science Initiative
      Emory University
Integrative BioSystems Institute
      Georgia Institute of Technology
Department of Biostatistics
      Texas A & M University
Presentation to King Abdullah University of Science and Technology
      Delegation, Georgia Institute of Technology
Lehrstuhl für Physik
      Ludwig Maximilians Universität München
Instituto de Tecnologia Química e Biológica
      Oeiras, Portugal
Department of Chemistry
      Appalachian State University
Instituto de Engenharia de Sistemas e Computadores Investigação e Desenvolvimento, Lisbon, Portugal
2008  Center of the Study of Biological Systems  
Georgia Institute of Technology  
Department of Bioinformatics and Computational Biology  
M.D. Anderson Cancer Center, Houston, TX  
Department of Chemistry and Biochemistry,  
Georgia Institute of Technology  
Trinity Presbyterian Church Men’s Breakfast  
Systems Biology Group, Life Science University,  
Ås, Norway  
Lehrstuhl für Genomorientierte Bioinformatik, Helmholtz Zentrum  
München, Germany  
Bioinformatics Colloquium, Lehrstuhl für Physik  
Ludwig Maximilians Universität, München, Germany  
Institute for Systems Biology,  
Shanghai University, Shanghai, PRC  
VHA Georgia Hospital Association  
Department of Chemical and Biomolecular Engineering,  
Georgia Institute of Technology

2009  Computational Science and Engineering Division  
Georgia Institute of Technology  
Center for Computational Biology, University of Georgia

2010  School of Industrial and Systems Engineering  
Georgia Institute of Technology  
Szent Györgyi Lecture, Mayo Clinic, Rochester, MN  
Systems Biology Group, University of Coimbra, Portugal  
Department of Mathematics, Christian College of Madras, Chennai, India  
Division of Biostatistics, Moffitt Cancer Center, Tampa, FL

2011  Center for Computational Biology, University of Georgia  
Directorate of Biological Sciences, National Science Foundation, Washington, DC  
Distinguished Lecture, Department of Mathematics, Georgia State University

2012  Samuel Nobel Foundation, Aardmore, OK  
NIEHS PD-CERC Investigator Meeting, Atlanta, GA  
Center for Cystic Fibrosis, Emory University  
NIHID Malaria Investigator Meeting, Atlanta, GA  
Division of Individualized Medicine, Mayo Clinic, Rochester, MN  
Division of Bioinformatics, Medical University of South Carolina

2013  Biochemistry and Redoc Biology Center, University of Nebraska, Lincoln, NE  
Integrative BioSystems Institute, Georgia Tech, Atlanta, GA  
Biomathematics Seminar, Florida State University, Tallahassee, FL

2014  Department of Biostatistics, University of Louisville
Universidad Nacional Autónoma de Mexico, Morelos, Mexico (Video-Seminar)
BioSys Doctoral Program, Universidade de Lisboa, Lisboa, Portugal
Department of Biological Engineering, Utah State University, Logan, UT

2015
Plant Research Laboratory, Michigan State University
Department of Bioengineering, University of Texas at Dallas
ETH Zürich, Switzerland
Computational Systems Biology Group, Basel, Switzerland
College of Pharmaceutical Science, Korea University
Chung Nam University, Korea
Korea Advanced Institute of Science and Technology
Stony Brook University