

Douglas Popken Publications and Presentations

Publications

- Cox, LA and Popken, DA. 2010. Assessing Human Health Hazards and Benefits from Subtherapeutic Antibiotics in the United States: Tetracyclines as a Case Study. [Online version](#) prior to print. *Risk Analysis*. doi: 10.1111/j.1539-6924.2009.01340.x
- Cox, LA, Popken, DA, and J Mathers. 2009. [Human Health Risk Assessment of Penicillin/Aminopenicillin Resistance in Enterococci Due to Penicillin Use in Food Animals](#). *Risk Analysis* **29**(6) 796-805. doi: 10.1111/j.1539-6924.2009.01202.x
- Cox, LA and DA Popken. 2008. [Overcoming Confirmation Bias in Causal Attribution: A Case Study on Antibiotic Resistance Risks](#). *Risk Analysis* **28**(5) 1155-1171. doi:10.1111/j.15396924.2008.01122.x
- Cox, LA and DA Popken. 2007. [Some Limitations of Aggregate Exposure Metrics](#). *Risk Analysis* **27**(2) 439-45. doi: 10.1111/j.1539-6924.2007.00896.x
- Cox, LA, DA Popken, and R Carnevale. 2007. [Quantifying Human Health Risks from Animal Antimicrobials](#). *Interfaces* **37**(1) 22-38. doi: 10.1287/inte.1060.0275
- Cox, LA and DA Popken. 2006. [Quantifying Potential Human Health Impacts of Animal Antibiotic Use: Enrofloxacin and Macrolides in Chickens](#). *Risk Analysis* **26**(1) 135-46. doi: 10.1111/j.1539-6924.2006.00723.x
- Popken, DA. 2006. [Controlling Order Circuitry in Pickup and Delivery Problems](#). *Transportation Research (E): Logistics and Transportation Review* **42**(5) 431-443. doi: 10.1016/j.tre.2005.05.002
- Cox, LA, JJ VanSickle, DA Popken, and R. Sahu. 2005. [Optimal Tracking and Testing of US and Canadian Herds for BSE: A Value-of-Information \(VOI\) Approach](#). *Risk Analysis* **25**(4) 827-840. doi: 10.1111/j.1539-6924.2005.00648.x
- Cox, LA, JJ VanSickle, DA Popken, and R. Sahu. 2004. [Tracking and Testing of US and Canadian Cattle Herds for BSE: A Risk Management Dilemma](#). *Choices Magazine* **19**(4) 51-54.
- Popken, DA and LA Cox. 2004. [A Simulation-Optimization Approach to Air Warfare Planning](#). *Journal of Defense Modeling and Simulation* **1**(3) 127-140.
- Popken, D and LA Cox. 2004. [Model Identification and Optimization for Operational Simulations](#). Technical Report AFRL-IF-RS-TR-2004-237, Air Force Research Laboratory, Information Directorate, Rome, NY.
- Popken, DA and LA Cox. 2004. [Simulation Based Planning for Theatre Air Warfare](#). In Enabling Technologies for Simulation Science VIII, Alex F Sisti and Dawn A Trevisani, Editors, Proceedings of SPIE **5423** 54-65. doi: 10.1117/12.541137
- Cox, LA and DA Popken. 2004. [Quantifying Human Health Risks from Virginiamycin Used in Chickens](#). *Risk Analysis* **24**(1) 271-288. doi: 10.1111/j.0272-4332.2004.00428.x
- Cox, L.A. , Jr., and Popken, D.A., 2004. [Bayesian Monte Carlo Uncertainty Analysis of Human Health Risks From Animal Antimicrobial Use in a Dynamic Model of Emerging Resistance](#). *Risk Analysis* **24**(5) 1153-1164. (Winner, Society for Risk Analysis, 2003 Best Paper Award.) doi: 10.1111/j.0272-4332.2004.00516.x
- Popken, DA and LA Cox. 2003. [Model Identification and Optimization for Operational Simulation](#). In Enabling Technologies for Simulation Science VII, Alex F Sisti and Dawn A Trevisani, Editors, Proceedings of SPIE **5091** 294-303. doi: 10.1117/12.500937
- Lipscomb, JC, LK Teuschler, J Swartout, D Popken, T Cox, and GL Kedderis. 2003. [The Impact of Cytochrome P450 2E1-Dependent Metabolic Variance on a Risk Relevant Pharmacokinetic Outcome in Humans](#). *Risk Analysis* **23**(6) 1221-1238. doi: 10.1111/j.0272-4332.2003.00397.x
- Cox, LA and DA Popken. 2002. [A Simulation Model of Human Health Risks from Chicken-Borne Campylobacter Jejuni](#). *Technology* **9** 55-84.
- Cox, LA and DA Popken. 2002. [A Hybrid System-Identification Method for Forecasting Telecommunications Product Demands](#). *International Journal of Forecasting* **18**(4) 647-671. doi: 10.1016/S0169-2070(02)00069-9

- Popken, D. 2000. [Model Abstraction Results Using State-Space System Identifications](#). In Enabling Technology for Simulation Science IV, Alex F. Sisti, Editor, Proceedings of SPIE **4026** 160-171. doi: 10.1117/12.389369
- Popken, D and LA Cox. 2000. [An Investigation of System Identification Techniques for Simulation Model Abstraction](#). Technical Report AFRL-IF-RS-TR-2000-8, Air Force Research Laboratory, Information Directorate, Rome, NY.
- Popken, D. 1999. [Application of System Identification Techniques to Simulation Model Abstraction](#). In Enabling Technology for Simulation Science III, Alex F. Sisti, Editor, Proceedings of SPIE **3696** 77-84. doi: 10.1117/12.351199
- Cox, LA, K Paige, and D Popken. 1999. [Software review of Analytica 1.2](#). *Human and Ecological Risk Assessment* **5**(2) 305-316.
- Popken, D and AP Sinha. 1996. [Completeness and Consistency Checking of System Requirements: An Expert Agent Approach](#). *Expert Systems with Applications - An International Journal* **11**(3) 263-276. doi: 10.1016/S0957-4174(96)00043-7
- Popken, D and AP Sinha. 1996. Object-oriented Frameworks for Multi-level Simulation Modeling, in [Object-oriented Simulation Reuseability, Adaptability, Maintainability](#), G. Zobrist and J. Leonard (eds), 165-196, IEEE Press, Piscataway, NJ.
- Popken, D. 1996. [An Analytical Framework for Routing Multiattribute Multicommodity Freight](#). *Transportation Research B: Methodological* **30B**(2) 133-145. doi: 10.1016/0191-2615(95)00021-6
- Popken, D. 1994. An Algorithm for Multiattribute Multicommodity Flow with Freight Consolidation and Inventory Costs. *Operations Research* **42**(2) 274-286. (Figure from article appears on cover of journal issue.)
- Popken, D. 1994. [Hierarchical Modeling and Process Aggregation in Object-oriented Simulation](#). *International Journal in Computer Simulation* **4**(1) 1-19.
- Popken, D and AP Sinha. 1994. An Integrative Framework for Multi-level Modeling of Discrete Systems. In Proceedings of the Object-oriented Simulation Conference (OSS'94), Tempe, AZ, Jan 24-26, C Herring et al. (eds). SCS Simulation Series **26**(2) 139-144. ISBN: 1-56555-067-6
- Popken, D. 1992. [An Object-oriented Simulation Environment for Airbase Logistics](#). *Simulation* **59**(5) 329-339.
- Clark, PK and D Popken. 1991. [Integrated Model Development Environment](#). In Proceedings of the 1991 National Aerospace and Electronics Conference (NAECON), Dayton, OH, 20-24 May. IEEE, New York, NY, 1235-1238. doi: 10.1109/NAECON.1991.165918
- Jones, PH and D Popken. 1991. [Interactive Prototyping Methodology for a Domain-dependent User Interface](#). In Proceedings of the 1991 National Aerospace and Electronics Conference (NAECON), Dayton, OH, 20-24 May. IEEE, New York, NY, 813-816. doi: 10.1109/NAECON.1991.165847
- Popken, D, G. Cooke, and C. Dickinson. 1989. [Analysis of Air Force Logistics Capability Assessment Models](#). Technical Paper AFHRL-TP-88-56, Air Force Human Resources Laboratory (now part of Air Force Research Laboratory), Wright-Patterson AFB, OH .
- Popken, D. 1988. [Productivity Improvements in Simulation Modeling \(PRISM\) Project: Concepts and Motivations](#). Technical Paper AFHRL-TP-88-31, Air Force Human Resources Laboratory (now part of Air Force Research Laboratory), Wright-Patterson AFB, OH .
- Popken, D. 1988. [Multiattribute Multicommodity Flows in Transportation Networks](#). Technical Publication UCB-ITS-DS-88-1, Institute of Transportation Studies, UC Berkeley, Berkeley, CA.

Presentations (without Proceedings)

- Optimizing a Worldwide Maintenance and Logistics Support Network (with Kevin Roderick), INFORMS Annual Meeting, Washington, DC, Oct 12-15, 2008.
- Quantitative Risk Analysis for Animal Antibiotics (with Dr. Tony Cox and Richard Carnevale), Edelman Prize finalist presentation at the 2006 INFORMS Conference on O.R. Practice, Miami, FL, April 30-May 2, 2006.

- CBA Back Room Study: Recommendations to Save Time and Money, 2006 [Future of the Industry Conference](#) sponsored by the Christian Booksellers Association, Nashville, TN, Jan 27-28, 2006.
- Controlling Order Circuitry in Pickup and Delivery Problems, INFORMS Annual Meeting, San Francisco, CA, Nov 13-16, 2005.
- Results from Simulation Based Planning of Theatre Air Warfare, INFORMS Annual Meeting, Denver, CO, Oct 24-27, 2004.
- IT in Logistics at DAS (with Mr. Andy Duong). In Information Technology in Logistics: An International Research Perspective - Workshop given at UC Berkeley by the Fisher Center for the Strategic Use of IT, Oct 2-3, 2003.
- Human Health Risks and Benefits of Current Enrofloxacin Use Patterns and Alternatives (with Dr. Tony Cox), Poster presented at the NFID 2003 Annual Conference on Antimicrobial Resistance. June 23-25th, Hyatt Regency Bethesda, MD, 2003. <http://www.nfid.org/conferences/resistance03/>
- Human Health Risk Assessment for Virginamycin Use in Chicken (with Dr. Tony Cox), Poster Presentation P11 at 2002 Conference on Antimicrobial Resistance. Hyatt Regency Bethesda, Bethesda, MD, June 27th-29th, 2002. <http://www.nfid.org/conferences/resistance02/absposter.pdf>
- Causes of Fluoroquinolone-Resistant Campylobacteriosis (with Dr. Tony Cox), Poster Presentation P12 at 2002 Conference on Antimicrobial Resistance. Hyatt Regency Bethesda, Bethesda, MD, June 27th-29th, 2002. <http://www.nfid.org/conferences/resistance02/absposter.pdf>
- A Routing and Load Planning System for Nationwide Automobile Shipping , INFORMS Annual Meeting, Miami Beach, FL, Nov 6, 2001.
- Lean Principles for the Service Sector, Colorado APICS professional development meeting, Oct 17, 2001.
- Lean Principles for the Service Sector, ProcessModel Users Conference, Park City UT, Aug 7-11, 2000.
- Forecasting Purchases of Telecommunications Services via State Transition Models (with Dr. Tony Cox), INFORMS Philadelphia Fall National Meeting, Nov 7-10, 1999.
- Identifying Customer Demand Processes from Data (with Dr. Tony Cox), INFORMS Seattle Fall National Meeting, Oct. 25-28, 1998.
- Systems Thinking in Resource Management, APICS Colorado Forum, Oct. 21, 1998.
- Modern Tools for Understanding Production Dynamics, APICS Colorado Forum, Feb. 18, 1998.
- An Agent Based Simulation for Market Performance Measurement, INFORMS Dallas Fall 1997 National Meeting, Oct. 26-29, 1997.
- An Information Framework for Requirements Management (with Mr. John Perkins), 64th Symposium of the Military Operations Research Society, Ft. Leavenworth, KS, Jun 16-18, 1996.
- RAPID-WS: A Case Study in OOT [Object-Oriented Technology], (with Mr. Joe Huber). IEEE SIG-OOT, Dayton, OH, Mar 7, 1996.
- A Distributed Framework for Real-Time Logistics Planning. INFORMS Los Angeles Spring National Meeting, Apr. 23-26, 1995.
- Weight and Cube Based Freight Consolidation Strategies, POMS Annual Meeting, Washington, D.C., Oct. 9-13, 1994.
- A New Paradigm for Airbase Logistics Modeling. 59th Symposium of the Military Operations Research Society (MORS), US Military Academy, West Point, New York. June, 1991.