

John S. Hollywood, Ph.D.

Senior Operations Researcher

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Dr. Hollywood is a senior scientist and Policing Market Manager at the RAND Corporation, where he applies data and management science methods to security policy, including criminal justice, homeland security, and defense.

In criminal justice, he is one of the country's foremost experts on the use of machine learning in policing, giving numerous interviews and served on multiple expert panels on the topic, as well as co-leading evaluations of predictive policing in Chicago and Shreveport that received national attention. He supervises the *Better Policing Toolkit* web portal, which helps inform practitioners on promising strategies for reducing crime and improving police-community relations successfully. He is leading an evaluation of the Chicago Police Department's new real-time crime operations centers. He led a study on barriers to sharing information that led to draft policy changes on the acquisition of law enforcement information systems. He recently led a panel of chiefs and executives to identify top issues facing law enforcement along with potential solutions. Previously, he served as Director of the National Institute of Justice's Information and Geospatial Technologies Center. As part of the center's ten studies, he supervised the writing of *Predictive Policing: The Use of Crime Forecasting in Law Enforcement Operations*, the major reference on using machine learning to support policing.

In homeland security and defense, he co-led the evaluation of technologies inserted into a major active shooting exercise at Grand Central Terminal. He studied characteristics of suicide bombings in Israel as and developed algorithms for fusing disparate and conflicting reports about potential terror threats. He served as site director on studies examining how US terror plots have been foiled, finding that "over eighty percent of US terror plots are foiled domestically," a fact widely used in counterterrorism education. He serves as chair of the General Staff Homeland Security Committee of the Military Order of the World Wars, the nation's premier service organization for officers and their families.

Education

PhD, Operations Research, Massachusetts Institute of Technology, Cambridge, MA, 2000.
SB, Applied Mathematics, minor in Political Science, Massachusetts Institute of Technology, Cambridge, MA, 1996.

Professional Experience

2009 to date

RAND Corporation, Arlington, VA

Policing Market Manager (2019-); Senior Operations Researcher (2013-); Operations Researcher (2009-2013); Professor, Pardee RAND Graduate School (2012-).

- Internationally-recognized expert on predictive policing, which is the use of machine learning to identify crime risks. Supervised a technical assessment of predictive policing, with the resulting monograph commonly used as a textbook in the field. Co-principal investigator on a major NIJ evaluation of police departments experimenting with the use of machine learning to forecast crimes, with the results attracting national attention. Leading creation of the *Better Policing Toolkit* web portal, which uses machine learning techniques to identify policing strategies that are effective at both reducing crime and improving community relations.
 - Serving as Policing Market Manager, responsible for initiatives for revenue growth, including revamping RAND's policing research dissemination on the *Center for Quality Policing* website and other venues, as well as improving RAND's collaborations with policing agencies and funding organizations.
 - Senior scientist on multiple strategic planning initiatives for NIJ and the Bureau of Justice Assistance, including the Priority Criminal Justice Needs Initiative (the center that superseded the Information and Geospatial Technology Center's strategic planning functions), Justice Innovation Center for Small, Rural, and Tribal Border Agencies, and the Bureau of Justice Assistance Criminal Justice Technologies Forecasting Group (CJTFG). Served as principal investigator for the CJTFG.
 - Lead author on a series of training vignettes on high-stress and hazardous policing situations, to be implemented in a virtual reality system for the National Institute of Justice.
 - Senior scientist for the Homeland Security Operations Analysis Center (HSOAC), the studies and analysis FFRDC for the Department of Homeland Security. Co-leading an information technology and business processes consulting project to ICE's Information Governance and Privacy office. Supervised an assessment of technologies inserted into a major active shooter exercise in Grand Central Terminal, New York. Co-led facilitation of the 2018 First Responders Resource Group to identify top short-term materiel needs for first responders and led a team of dozens of RAND researchers to determine which of the top-ranked needs could be satisfied today.
 - Former Director, NLECTC Information and Geospatial Technologies Center. Led the proposal effort that won the center, with total revenues of \$5 million. Managed a staff of more than two dozen RAND analysts working on strategic planning, technology assessment liaison, and outreach initiatives for the
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National Institute of Justice (NIJ), with monographs published on predictive policing, automatic license plate readers, and NIJ-funded geospatial analysis tools. Led a multiyear strategic planning effort for NIJ to identify and prioritize research and development needs for law enforcement, which served as the prototype for a new multimillion-dollar initiative to identify and prioritize technology needs for the entire criminal justice enterprise.

- Established counterterrorism researcher. Task lead on a study that developed fusion algorithms to estimate terror threat probabilities from uncertain and conflicting data. Task lead on a project assessing targeting preferences of suicide bombers in Israel, which developed indicators of locations most likely to be attacked. Site manager on a DHS project to find indicators of potential terrorist activity by analyzing prior US terror plots, with the results publicized by the then-Secretary of DHS and in the Nationwide Suspicious Activity Reporting Initiative's Line Officer Training.
- Developed and taught classes for the Pardee RAND Graduate School on applying systems engineering and project management approaches to complex public policy problems and on predictive analytics for public policy.
- Established researcher on the impacts of information technology on military operations. Task lead on projects assessing combat search and rescue and blue force tracking networks.

2007 to 2009

RTI International, Research Triangle Park, NC.

Research Scientist, Crime, Violence, and Justice Program. Conducted decision science research in the areas of criminal justice, substance abuse and mental health, and homeland security.

- Developed novel approaches to assessing the performance of Department of Health and Human Services grantee programs, which account for differences in the programs' provided services and case mix.
 - Developed and delivered training modules on social network analysis and continuous quality improvement to executives and evaluators of substance abuse and mental health treatment programs focusing on the homeless.
 - Lead analyst on a to examine the feasibility of using data mining to generate useful information about potential terror threats from 911 calls reporting suspicious activity.
 - Senior scientist on a DHS project to create a prototype system to identify foreign groups most at risk of conducting politically-motivated acts of violence. Led the development of the system's architecture and a core set of models assessing groups' propensities for violence. Led an evaluation and selection process for the system's text mining component.
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2000 to 2007**RAND Corporation, Arlington, VA.**

Operations Researcher (2004 to 2007); *Associate Operations Researcher* (2000 to 2004).

- Helped develop a case study methodology that evaluates how improvements to technology, training, organization, and processes centered on improving information sharing and collaboration can lead to improved effectiveness at carrying out military operations, including combat, stability operations (peacekeeping), and humanitarian crisis response. Senior researcher on an assessment examining how these improvements can enhance effectiveness in stability operations, as well as a meta-analysis of previous case studies to develop findings on what types of improvements most commonly lead to the greatest increases in effectiveness.
 - Task lead on a project to help defeat improvised explosive devices (IEDs) in Iraq. Led an analysis comparing the expected benefits of major types of military operations in Iraq (in terms of furthering military objectives) to their costs (risks of casualties). Coordinated the creation of analytic methodologies and tools to provide actionable intelligence against insurgent networks employing IEDs.
 - Managed an internal RAND research project (four-person research team) to develop a conceptual architecture for an asymmetric threat detection and analysis system. The architecture identifies atypical observations worth further investigation and employs dynamically managed cycles of contextual detection analysis, link recognition, and hypothesis generation and testing to identify the true meaning of the observations. The project resulted in a monograph featured in a variety of press articles and in government IT journals.
 - Member of the lead contractor team for a major Department of Defense initiative to improve the interoperability of the department's command and control systems. Chaired or co-chaired multiple issue working groups, each comprising representatives from the Services and defense agencies. Led development of the initiative's core process for applying the department's requirements, acquisition, and budgeting processes to identifying and implementing interoperability improvements involving multiple systems. Senior researcher on an assessment of the department's systems for digitally tracking the location of U.S. and coalition forces, a multibillion dollar defense program portfolio.
 - Principal investigator on a project to create a conceptual architecture for the systematic management of computer networks, which characterizes user needs, monitors network performance, and controls network processes to satisfy user needs. Completed two monographs describing the architecture and its constituent measures, metrics, control methods, decision-making processes, and organizational management techniques.
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2001**Johns Hopkins University, Montgomery County Campus, Shady Grove, MD.**

Lecturer, Department of Computer Science. Taught a Masters' level course on computer algorithms, including material on the design of algorithms, algorithmic complexity, searching and sorting algorithms, graph algorithms, NP-completeness, and combinatorial search algorithms.

1996 to 2000**Sloan School of Management, MIT, Cambridge, MA.**

Research Assistant. Studied a new class of analytic models for manufacturing and computer processing networks. Developed a series of extensions that allow the modeling of nonlinear control rules, constant inventory constraints, and probabilistic work transfers. Explored the use of the model in capacity planning. Developed a state-sensitive scheduling framework for heterogeneous computer networks that reconfigures scheduling components and computing resource requirements to adapt to changing network conditions.

**1995 to 1999
(summers)****Computer Sciences Corporation, Hanover, MD.**

Technician. Analyzed a distributed computing architecture for the Department of Defense, developing strategies for query processing and distributing processors within the architecture. Developed scheduling heuristics that provide similar performance but require 1 to 2 magnitudes less computing overhead than previously used algorithms. Developed multi-thousand line simulations of the new architecture, using programming strategies that make the simulation comparatively simple to understand, extend, and maintain. Performed numerous simulation studies.

**1992 to 1994
(summers)****U.S. Senate Committee on Governmental Affairs, Washington, DC.**

Staff Intern. Reported on the licensing of dual-use goods to Pakistan and Iraq and analyzed and reported on a series of nonproliferation legislation and hearing. Created a revision of the Export Administration Act of 1979, the bill by which the U.S. government controls exports.

Honors and Awards

Military Order of the World Wars Silver Patrick Henry Award (2017), which is the second highest award the Order gives to its members. Presented for contributions made in leading the Order's Homeland Security Committee.

RTI International Annual Award (2009), for excellence in research.

RTI International President's Award (2009), for being part of the team that established the Institute for Homeland Security Solutions, a North Carolina-based research consortium that supports the Department of Homeland Security Science and Technology Directorate's Human Factors Division.

Karl Taylor Compton Award (1996), the highest award MIT gives students. Presented for work in MIT student affairs and on student-faculty committees.

Eagle Scout, Boy Scouts of America (1989). Service project: leading construction of ten bookcases for an elementary school.

Professional Associations

Institute for Operations Research and Management Science (INFORMS)

Military Order of the World Wars

International Association of Crime Analysts

Professional Service

Chair, General Staff Homeland Security Committee, Military Order of the World Wars, 2014-2019

Sections Representative, INFORMS Subdivisions Council, 2017-2019

Panelist, Consultation on Opportunities and Challenges with Algorithmic Decision-Making Tools in the Criminal Justice Field, MacArthur Foundation, Chicago, IL, 2016

President-Elect / President, INFORMS Public Sector Operations Research Section, 2014-2016

Member, Bureau of Justice Assistance Criminal Justice Technology Forecasting Group, 2014-2015

Senior Vice President for Programs, INFORMS Section on Public Programs, Processes, and Needs, 2010-2011

Committee Member. Principles of Data Transfer Workshop, Data Privacy Day 2009 - Protecting National Security and Privacy: Approaches of New Administrations in the United States and Europe, Terry Sanford Institute of Public Policy, Duke University.

Vice President for Communications, INFORMS Section on Public Programs, Processes, and Needs (SPPSN), 2008-2009

Publicity Vice Chair / Professional Relationships Vice Chair, INFORMS Section on Public Programs and Processes, 2007 - 2008

Chairman, INFORMS Section on Public Programs and Processes, 2004 to 2007

Member of the Board of Directors, Washington Chapter of INFORMS (WINFORMS), 2005 to 2007

Cluster Chair, Public Programs and Processes Track, 2004 INFORMS National Meeting

Journal Articles

- Jackson, B. A., Towe, V. L., Wagner, L., Hunt, P., Greathouse, S., & Hollywood, J. S. (2017). Managing officer behavioural risk using early intervention systems: addressing system design challenges for law enforcement and corrections environments. *Policing: A Journal of Policy and Practice*, 11(1), 103-117.
- Gonzales, D., Winkelman, Z., Tran, T., Sanchez, R., Woods, D., & Hollywood, J. (2017). Digital forensics compute cluster: a high speed distributed computing capability for digital forensics. *International Journal of Computer and Information Engineering*, 11(8), 916-923.
- Saunders, J., Hunt, P., & Hollywood, J. S. (2016). Predictions put into practice: a quasi-experimental evaluation of Chicago's predictive policing pilot. *Journal of Experimental Criminology*, 12(3), 347-371.
- Davis, P. K., Perry, W. L., Hollywood, J. S., & Manheim, D. (2015). Using causal models in heterogeneous information fusion to detect terrorists. In L. Yilmaz, W.K.V. Chan, I. Man, T.M.K. Roeder, C. Macal, M.D. Rossett (Eds.), *Proceedings of the 2015 Winter Simulation Conference* (pp. 2586-2597). Piscataway, NJ: IEEE Press.
- Perry, W., Hollywood, J.S., McInnis, B., Price, C., & Smith, S. (2014). Predictive policing: what it is, what it isn't, and how it can be useful. *The Police Chief*, 81(4), 30-35.
- Lamon, S. S., Broner, N., Hollywood, J. S., & McFarland, B. (2010). Interviewing tactics in counterinsurgency. *Small Wars Journal*, August 3.
- Hollywood, J. S., Strom, K. J., & Pope, M. W. (2008). Using 9-1-1 calls for service to identify potential instances of terrorist surveillance. *The Police Chief*, 75(10), 160-165.
- Hollywood, J. S. (2005). An approximate planning model for distributed computing networks. *Naval Research Logistics*, 52(6), 590-605.
- Hollywood, J. S., & McKay, K. N. (2004). An adaptive scheduling framework for heterogeneous computer networks. *Control Engineering Practice*, 12, 725-734.
- Bambenek, J. J., & Hollywood, J. S. (2001). Virtual food service systems: technology transforming university food service structure. *College Student Journal*, 35(1), 122-134.

Published Monographs

- Hollywood, J. S., Lauland, A., Woods, D., McKay, K.N., & Zhang, Y. (2018). *Better policing toolkit* (TL-261-RC). Santa Monica, CA: RAND Corporation.
- Hollywood, J. S., Woods, D., Lauland, A., Jackson, B. A., Silbergliitt, R. (2018). *Addressing emerging trends to support the future of criminal justice: Findings of the Criminal Justice Technology Forecasting Group* (RR-1987-BJA). Santa Monica, CA: RAND Corporation
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- Hollywood, J. S., Woods, D., Goodison, S. E., Lauland, A., Wagner, L., Wilson, T. J., Jacson, B. A. (2017). *Fostering innovation in U.S. law enforcement: identifying high-priority technology and other needs for improving law enforcement operations and outcomes* (RR-1814-NIJ). Santa Monica, CA: RAND Corporation.
- Strom, K. J., Hollywood, J. S., & Pope, M. (2017). Terrorist plots against the United States: What we have really faced, and how we might best defend against it. In G. LaFree and J. Freilich (Eds.), *The Handbook of The Criminology of Terrorism*. Malden, MA.: Wiley.
- Saunders, J., Cahill, M., Morral, Andrew R., Leuschner, K. J., Midgette, G., Hollywood, J. S., Matsuda, M., Wagner, L., and Taylor, J. (2016). *The Justice Innovation Center: Identifying the needs and challenges of criminal justice agencies in small, rural, tribal, and border areas* (RR-1479-NIJ). Santa Monica, CA: RAND Corporation.
- Jackson, B. A., Banks, B., Hollywood, J. S., Woods, D., Royal, A., Woodson, P. W., & Johnson, N. J. (2016). *Fostering innovation in the U.S. court system: Identifying high-priority technology and other needs for improving court operations and outcomes* (RR-1255-NIJ). Santa Monica, CA: RAND Corporation.
- Davis, P. K., Perry, W. L., Hollywood, J. S., & Manheim, D. (2016). *Uncertainty-sensitive heterogeneous information fusion: Assessing threat with soft, uncertain, and conflicting evidence* (RR-1200-NAVY). Santa Monica, CA: RAND Corporation.
- Silberglitt, R., Chow, B. G., Hollywood, J. S., Woods, D., Zaydman, M., & Jackson, B. A. (2015). *Visions of law enforcement technology in the period 2024-2034: report of the Law Enforcement Futuring Workshop* (RR-908-NIJ). Santa Monica, CA: RAND Corporation.
- Hollywood, J. S., Boon, J., Silberglitt, R, Chow, B., & Jackson, B. (2015). *High priority information technology needs for law enforcement* (RR-737-NIJ). Santa Monica, CA: RAND Corporation
- Jackson, B. A., Russo, J., Hollywood, J. S., Woods, D., Silberglitt, R., Drake, G. B., Shaffer, J. S., Zaydman, M., & Chow, B. G. (2015). *Fostering innovation in community and Institutional corrections: identifying high-priority technology and other needs for the U.S. corrections sector* (RR-820-NIJ). Santa Monica, CA: RAND Corporation.'
- Hunt, P., Saunders, J., & Hollywood, J. S. (supervisor) (2014). *Evaluation of the Shreveport predictive policing experiment* (RR-531-NIJ). Santa Monica, CA: RAND Corporation.
- Wong, C., Sorensen, P., & Hollywood, J.S. (supervisor) (2014). *Evaluation of National Institute of Justice-funded geospatial software tools: technical and utility assessments to improve tool development, dissemination, and usage* (RR-418-NIJ). Santa Monica, CA: RAND Corporation.
- Perry, W.L., McInnis, B., Price, C.C., Smith, S., & Hollywood, J.S. (supervisor) (2013). *Predictive policing: the role of crime forecasting in law enforcement operations* (RR-233-NIJ). Santa Monica, CA: RAND Corporation.
- Perry, W.L., Berrebi, C., Brown, R.A., Hollywood, J.S., Jaycocks, A., Roshan, P., Sullivan, T., Miyashiro, L. (2013). *Predicting suicide attacks: integrating spatial, temporal, and social features of terrorist attack targets* (MG-1246-NRL). Santa Monica, CA: RAND Corporation.
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Gonzales, D., Hollywood, J. S., Sollinger, J., McFadden, J., Jarnette, J., Harting, S., & Temple, D. (2007). *Networked forces in stability operations: 101st airborne division, 3/2 and 1/25 Stryker brigades in northern Iraq* (MG-593-OSD). Santa Monica, CA: RAND Corporation.

Gonzales, D., Hollywood, J., Kingston, G., & Signori, D. (2005). *Network centric operations case study: air-to-air combat with and without link 16* (MG-268-OSD). Santa Monica, CA: RAND Corporation.

Hollywood, J., Snyder, D., McKay, K., & Boon, J. (2004). *Out of the ordinary: finding hidden threats by analyzing unusual behavior* (MG-126-RC). Santa Monica, CA: RAND Corporation.

Published Technical Reports

Hollywood, J. S., Woods, D., Lauland, A., Goodison, S., Wilson, T. J., & Jackson, B. A. (2018). *Using video analytics and sensor fusion in law enforcement: Building a research agenda that includes business cases, privacy and civil rights protections, and needs for innovation* (RR-2619-NIJ). Santa Monica, CA: RAND Corporation.

Hollywood, J. S., Vermeer, M., Woods, D., Goodison, S. E., Jackson, B. A. (2018). *Using social media and social network analysis in law enforcement: Creating a research agenda, including business cases, protections, and technology needs* (RR-2301-NIJ). Santa Monica, CA: RAND Corporation.

Hollywood, J. S., Woods, D., Lauland, A., Goodison, S., Wilson, T. J., & Jackson, B. A. (2016). *Using future broadband communications technologies to strengthen law enforcement* (RR-1462-NIJ). Santa Monica, CA: RAND Corporation.

Hollywood, J. S., Woods, D., Silbergliitt, R., & Jackson, B. A. (2016). *Using future Internet technologies to strengthen criminal justice* (RR-928-NIJ). Santa Monica, CA: RAND Corporation.

Hollywood, J. S., & Winkelman, Z. (2015). *Improving information-sharing across law enforcement: Why can't we know?* (RR-645-NIJ). Santa Monica, CA: RAND Corporation.

Jackson, B. A., Greenfield, V. A., Morral, Andrew R., & Hollywood, J. S. (supervisor) (2014). *Police department investments in information technology systems: challenges assessing their payoff* (RR-569-NIJ). Santa Monica, CA: RAND Corporation.

Wong, C., Gonzales, D., Ohlandt, C., Landree, E., & Hollywood, J. S. (2013). *Using EPIC to find conflicts, inconsistencies, and gaps in Department of Defense policies* (TR-1277-NAVY). Santa Monica, CA: RAND Corporation.

Gordon, J., Wallace, B., Tremblay, D., & Hollywood, J. S. (supervisor) (2012). *Keeping law enforcement connected: information technology needs from state and local agencies* (TR-1165-NIJ). Santa Monica, CA: RAND Corporation.

Gonzales, D. R., Ohlandt, C., Landree, E., Wong, C., Bitar, R., & Hollywood, J. S. (2011). *The Universal Core information exchange framework: assessing its implications for acquisition programs* (TR-885-NAVY). Santa Monica, CA: RAND Corporation.

- Strom, K.J., Hollywood, J.S., Pope, M.W., Weintraub, G., Daye, C., & Gemeinhardt, D. (2011). Building on clues: methods to help state and local law enforcement detect and characterize terrorist activity. *Institute for Homeland Security Solutions Final Report*. Research Triangle Park, NC: Institute for Homeland Security Solutions.
- Hollywood, J. S., Strom, K. J., & Pope, M. W. (2009). Building on clues: methods to help state and local law enforcement detect and characterize terrorist activity. *Institute for Homeland Security Solutions Research Brief*. Research Triangle Park, NC: Institute for Homeland Security Solutions.
- Hollywood, J. S., Strom, K. J., & Pope, M. W. (2008). *Developing and testing a method for using 911 calls for identifying potential pre-planning terrorist surveillance activities* (NIJ Grant Report NCJ 222911). Washington, DC: National Institute of Justice.
- Gonzales, D., Landree, E., Hollywood, J. S., Berner, S., & Wong, C. (2007). *Navy/OSD collaborative review of acquisition policy for DoD C3I and weapon programs* (DB-528-NAVY/OSD). Santa Monica, CA: RAND Corporation.

Other Publications

- Hollywood, J. S. (2018, November 28). Suppressing motivation, legitimacy can help avoid political violence. *United Press International*.
- Hollywood, J. S. (2017, March). Homeland security note: Update on the Daesh threat. *The Free State Officers Call*.
- Hollywood, J. S. (2016, November-December). Homeland security op-ed: The Daesh terrorist group. *Officer Review*.
- Hollywood, J. S. (2016, September 19). CPD's 'heat list' and the dilemma of predictive policing. *Crain's Chicago Business*.
- Perry, W. P., & Hollywood, J. S. (2013, November 13). Predictive Policing: An effective tool, but not a crystal ball. *Government Technology (GovTech.com)*.
- Hollywood, J. S., & Strom, K. J. (2011, May 10). Can you help stop terror plots? *CNN.com*.
- Hollywood, J. S., & Strom, K. J. (2010, November 24). Alert public and cops foiled the most terrorism schemes. *Charlotte Observer*.
- Strom, K. J., Hollywood, J. S., & Pope, M. W. (2009, June). Using 911 calls to detect terrorism threats. *NIJ Journal*, 263, 24-29.
- Hollywood, J. S., Strom, K. J., & Pope, M. W. (2009). Can you find terrorists with data mining? *Operations Research/Management Science Today*. Hanover, MD: Institute for Operations Research and Management Science.
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Selected Interviews

- Smith, M. (2018, October 30). Can we protect where and when a crime will take place? *BBC News*.
- Hvistendahl, M. (2016, September 28). Can 'predictive policing' prevent crime before it happens? *Science*.
- Stroud, M. (2016, August 19). Chicago's predictive policing tool just failed a major test: A RAND report shows that the 'Strategic Subject List' doesn't reduce homicides. *The Verge*.
- Dupzyk, K. (2016, April). The Internet knows what you did last summer. *Popular Mechanics*.
- Eligon, J. & Williams, T. (2015, September 24). Police program aims to pinpoint those most likely to prevent crimes. *The New York Times*.
- Oremus, W. (2015, August 24). Should cops be allowed to take control of self-driving cars? *Slate*.
- Wiener-Bronner, D. (2015, August 20). Your fridge could help keep you under house arrest. *Fusion*.

Technical Papers

- Hollywood, J. S. (2000). *Performance evaluation models for manufacturing networks in which production levels depend on work-in-queue levels*. Unpublished doctoral thesis, MIT Operations Research Center, Cambridge, MA.
- Hollywood, J. S. (1999). *An analytic model for request-based job shops*. MIT Operations Research Working Paper. Awarded Honorable Mention, 1998 INFORMS MSOM Student Paper Contest.

Selected Presentations and Proceedings

- Hollywood, J. S. (2018, October). *Smarter public safety*. Paper presented to the National Governors' Association Smarter States, Smarter Cities Workshop, Chicago, IL.
- Hollywood, J. S. (2018, October). *Chicago Police Department's Strategic Decision Support Centers (SDSCs) – initial findings*. Paper presented to the International Association of Chiefs of Police Law Enforcement Information Technology Board of Directors, Orlando, FL.
- Hollywood, J. S. (2017, February). *Lessons learned from predictive policing assessments*. Paper presented to the National Sheriffs' Association Technology and Criminal Justice Information Systems Committee, Washington, DC.
- Hollywood, J. S. (2016, October). *Results of the Phase I Chicago Predictive Policing Experiment*. Paper presented to the International Association of Chiefs of Police Criminal Justice Information Systems Committee, San Diego, CA.
- Hollywood, J. S. (2016, May). *Predictive policing models*. Paper presented to the Quattrone Center Spring Symposium, University of Pennsylvania School of Law, Philadelphia, PA.
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- Hollywood, J. S. (2016, May). *Lessons learned from predictive policing*. Paper presented to the Massachusetts Association of Crime Analysts, Hyannis, MA.
- Hollywood, J. S. (2015, November). *Lessons learned from evaluating predictive policing*. Paper presented to the American Society of Criminology, Washington, DC.
- Hollywood, J. S. (2015, November). *Improving information sharing across law enforcement: Why can't we know?* Paper presented to the Global Advisory Council, Arlington, VA.
- Hollywood, J. S. (2015, September). *The effectiveness of predictive policing: Evidence from two field trials and exploratory modeling*. Paper presented to the 2015 International Association of Crime Analysts Training Conference, Denver, CO.
- Hollywood, J. S. (2014, October). *The future of data in police operations*. Panelist for roundtable discussion at the 2014 International Association of Chiefs of Police Conference, Orlando, FL.
- Hollywood, J. S. (2014, September). *Lessons learned from predictive policing experiments*. Paper presented at the International Association of Crime Analysts Training Conference, Bellevue, WA.
- Hollywood, J. S. (2014, May). *The terror threat to the US—what we really face and how we best defend against it*. Paper presented at GovSec, Washington, DC.
- Hollywood, J. S., Wight, L. T., Fretwell, N., & Maday, S. (2013, November). *Predictive policing*. Panelist for roundtable discussion at the 2013 National Fusion Center Association Annual Training Event, Alexandria, VA.
- Ratcliffe, J., Caplan, J., Hollywood, J.S., Schuetz, S., & Reno, R. (2013, October). *Predictive analytics: theories and practices*. Panelist for roundtable discussion at the 2013 International Association of Chiefs of Police Conference, Philadelphia, PA.
- Elder, J. (moderator), Fritz, N., Hollywood, J.S., & Uchida, C. (2013, September). *Roundtable on intelligence led policing*. Panelist for roundtable discussion at the 2013 International Association of Crime Analysts Training Conference, Ft. Lauderdale, FL.
- Hollywood, J.S. (2013, September). *Demystifying predictive analytics*. Paper presented at the 2013 International Association of Crime Analysts Training Conference, Ft. Lauderdale, FL.
- Hollywood, J.S. (2012, October). *Listening to the field: law enforcement needs for the operations research community*. Paper presented at the 2012 INFORMS National Meeting, Phoenix, AZ.
- Hollywood, J.S., Smith, S.C., Price, C., Perry W., & McInnis, B. (2012, May). *Predictive policing: what it is, what it isn't, and where it can be useful*. Paper presented at the International Association of Chiefs of Police Law Enforcement Information Management Conference, Indianapolis, IN.
- Hollywood, J. S., & C. Price (2011, November). *Predictive policing: theory, practice and future directions*. Keynote address to the Virginia Law Enforcement Planners' Association Fall Conference, Stafford, VA.
- Hollywood, J. S. (2011, November). *The math works, the reality doesn't - tales of woe from unrealistic modeling*. Paper presented at the 2011 INFORMS National Meeting, Charlotte, NC.
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- Hollywood, J. S. (2011, January). *Building on clues: improving methods to detect and characterize terrorist activity*. Paper presented to the Daniel Rose Yale University – Technion Initiative, New Haven, CT.
- Hollywood, J. S. (2010, November). *Predictive policing: examining departmental needs and tools*. Paper presented at the 2010 INFORMS National Meeting, Austin, TX.
- Hollywood, J. S. (2009, October). *How have terrorist plots really been foiled?* Paper presented at the 2009 INFORMS National Meeting, San Diego, CA.
- Hollywood, J. S., Strom, K. J., & Pope, M. W. (2008, October). *Using 911 calls to identify potential pre-terror attack surveillance*. Paper presented at the 2008 INFORMS National Meeting, Washington, DC.
- Hollywood, J. S., Strom, K. J., & Pope, M. W. (2008, July). *Using 911 calls to identify potential instances of terrorist surveillance and probing*. Paper presented at the 2008 National Institute of Justice Conference, Arlington, VA.
- Hollywood, J. S. (2007, April). *Policy engineering: Designing and implementing complex public policies*. Paper presented at the INFORMS 2007 Conference on Operations Research Practice, Vancouver, Canada.
- Hollywood, J. S. (2006, April). Presentation to the National Research Council's Committee on Basic Research for Countering Improvised Explosive Devices, Washington, DC.
- Hollywood, J. S. (2006, April). *Out of the ordinary: Finding hidden threats by analyzing unusual behavior*. Paper presented at the National Academy of Sciences Workshop on Emerging Technologies and Privacy Issues in Terrorism Prevention, Washington, DC.
- Hollywood, J. S. (2005, December). *Out of the ordinary: Finding hidden threats by analyzing unusual behavior*. Paper presented at the Washington Chapter of INFORMS (WINFORMS), Arlington, VA.
- Hollywood, J. S. (2005, November). *Out of the ordinary: Finding hidden threats by analyzing unusual behavior*. Paper presented at the INFORMS National Meeting, San Francisco, CA.
- Hollywood, J. S. (2005, October). *Out of the ordinary: Finding hidden threats by analyzing unusual behavior*. Paper presented at the NDIA Systems Engineering Conference, San Diego, CA.
- Hollywood, J. S. (2005, August). *Out of the ordinary: Finding hidden threats by analyzing unusual behavior*. Paper presented at the Defense Acquisition Performance Assessment Panel, Arlington, VA.
- Hollywood, J. S. (2004, October). *All operations researchers are network security experts, and other observations on working in public policy*. Paper presented at the INFORMS National Meeting, Denver, CO.
- Hollywood, J. S. (2003, January). *All operations researchers are network security experts, and other observations on working in public policy*. Paper presented at the MIT Operations Research Center IAP Seminar Series.
- Hollywood, J. S., & McKay, K. N. (2003, June). *Supporting mission management in knowledge production networks*. Paper presented at the Military Operations Research Society Annual Conference, Quantico, VA.
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