

Journal Papers (Accepted or Published)

1. A. Gupta, G.W. Evans and S.S. Heragu, "Simulation and Optimization Modeling for Drive-Through Mass Vaccination – A Generalized Approach," to appear in **Simulation Modeling Practice and Theory**, 2014.
2. U.R. Tuzkaya, S.S. Heragu, G.W. Evans and M.L. Johnson (2011), Designing a Large-Scale Emergency Network – A Case Study for Kentucky," to appear in **European Journal of Industrial Engineering**, 2014.
3. T. Wiemken, P. Peyrani, R.L. Carrico, R. Kelley, S.S. Heragu, C. Jonsson, J. Summersgill, F. Arnold, W.P. McKinney and J. Ramirez, "Clinical and Translational Research in Influenza at the University of Louisville," **Journal of the Kentucky Medical Association**, Vol. 110, No. 4, pp. 149-156, April 2012.
4. F. Majzoubi, L. Bai, and S.S. Heragu, "An Optimization Approach for Dispatching and Relocating EMS Vehicles", **IIE Transactions on Healthcare Systems Engineering**, Vol. 2, No. 3, pp. 211-223, September 2012.

Journal Papers (Submitted)

1. L. Chen, "Resource Reservation for Stochastic Resource Allocation", Submitted for Annals of Operations Research.
2. T. van de Kracht, S.S. Heragu, R.L. Carrico, and A. Gupta "Design and Analysis of a Simulation Model for Drive- Through Mass Vaccination Clinic held in Louisville, KY USA", **under revision for resubmission to IIE Transactions on Healthcare Systems Engineering**, June 2013.
3. H. de Ruijter, P.C. Schuur, R.J. Mantel and S.S. Heragu, "Order Oriented Slotting and the Effect of Batching and Zoning for the Practical Case of a Book Distribution Center," under revision for **European Journal of Operational Research**.
4. A. Gupta and S.S. Heragu, "CONWIP: Closed or Semi-Open Queuing Network?," submitted to **International Journal of Operational Research**, February 2013.
5. E. de Haas, Y. Liu, S.S. Heragu, G.W. Evans, and T. Price, UofL Hospital Emergency Department Uses Simulation to Improve Patient Satisfaction, submitted to **Health Systems**, July 2013.
6. LaJoie, A.S., Vahrenhold, C., Just, E., Grubbs-Stallings, R., "Barriers and Facilitators to Recruiting and Training Behavioral Health Professionals as Volunteers during a Disaster," Disaster Prevention Management.
7. Vahrenhold, C., Just, E., Grubbs-Stallings, R., LaJoie, A.S., "Continuing Education Preferences, Facilitators and Barriers among Behavioral Health Professionals in Kentucky," Journal of Continuing Education in the Health Professions.

Conference Proceedings and Presentations

1. Gupta, A., Heragu, S.S., 2011, Real-time Decision Support System for Healthcare, Proceedings of the 2011 Industrial Engineering Research Conference, Reno, NV, May 21-25, 2011.
2. LaJoie, A. S., Vahrenhold, C., Just, E., Grubbs-Stallings, R., 2011, Barriers and Facilitators to Recruiting and Training Behavioral Health Professional as Volunteers During a Disaster, American Public Health Association Conference.

3. Majzoubi, F., Bai, L., Heragu, S.S., 2011, Model for Dispatching Ambulances during a Pandemic, Proceedings of the 2011 Industrial Engineering Conference, Reno, NV, May 21-25, 2011.
4. Paleshi, A., Evans, G.W., Heragu, S.S., Moghaddam, K.S., 2011, Disease Spread Model to Evaluate Intervention Strategies during Pandemic Influenza, Proceedings of the 2011 Industrial Engineering Conference, Reno, NV, May 21-25, 2011.
5. Rao, T.H., Heragu, S.S., Evans, G.W., Gupta, A., 2011, Real-Time Inventory Management for Emergency Preparedness - A Survey, Proceedings of the 2011 Industrial Engineering Conference, Reno, NV, May 21-25, 2011.
6. Jin, S., Early Detection and Control of Potential Pandemics, Proceedings of the 2011 Industrial Engineering Research Conference, Reno, NV, May 21-25, 2011.
7. Sun, L., DePuy, G.W., 2011, Optimization Models For Patient Allocation During A Pandemic Influenza Outbreak, Proceedings of the 2011 Industrial Engineering Research Conference, Reno, NV, May 21-25, 2011.
8. Wiggers, J., Gupta, A., Heragu, S.S., Carrco, R., and Van de Kracht, T., , 2011, Design and Analysis of a Simulation Model for Drive-Through Mass Vaccination, Proceedings of the 2011 Industrial Engineering Research Conference, Reno, NV, May 21-25, 2011.
9. Haas, E d., Liu, Y., Heragu, S. S., Evans, G. W., and Price, T., 2011 Simulation Model of University of Louisville Hospital Emergency Department, Proceedings of the 2011 Industrial Engineering Research Conference, Reno, NV, May 21-25, 2011.
10. Gupta, A., Heragu, S.S., Evans, G.W., Kelley, R., Kumar, A., Johnson, M., 2011, Real Time Decision Support System for Health Care and Public Health Sectors Protection, 2011 Public Health Preparedness Summit, Atlanta, GA, Feb 22-25, 2011.
11. Gupta, A., Heragu, S.S., Rao, T., Kelley, R., Kumar, A., 2011, Real Time Decision Support System for Health Care and Public Health Sectors Protection, Health and Humanitarian Logistics, Georgia Tech, March 3-4.
12. Sun, Y., Heragu, S.S., Evans, G.W., Gupta, A., Johnson, M., 2010, The Kentucky SNS Logistics Network Design: Location and Assignment, 2010 Modeling for Public Health Action, Center for Disease Control and Prevention, Atlanta, GA, Dec 9-10, 2010.
13. Paleshi, A., Evans, G.W., Heragu, S.S., Moghaddam, K.S., 2011, Disease Spread Model to Evaluate Intervention Strategies during Pandemic Influenza, Health and Humanitarian Logistics, Georgia Tech, March 3-4.
14. Rao, T.H., Heragu, S.S., Evans, G.W., 2011, GIS as a Decision Support Tool in Healthcare, (Hospital and Bed Availability Analysis for Jefferson County, KY), Health and Humanitarian Logistics, Georgia Tech, March 3-4, 2011.
15. Sun, L., DePuy, G.W., 2011, Optimization Models For Patient Allocation During A Pandemic Influenza Outbreak, Health and Humanitarian Logistics, Georgia Tech, March 3-4, 2011.
16. Real-Time Decision Support System for Healthcare and Public Health Sectors Protection-Gaps Identified in HPH and ESS Sectors and the Proposed Research Work, 2011 Conference on Health and Humanitarian Logistics, Atlanta, GA, March 3-4, 2011.
17. Lui, Y., Kelley, R., Polina, P., Heragu, S., Kumar, A., 2011, iResTrac: An Architecture for Maintaining Medical Resource Status with Mobile Devices Short Paper, First ACM MobiHoc Workshop on Pervasive Wireless Healthcare, Paris, France, May 16-19, 2011.

18. LaJoie, A. Scott, Vahrenhold, C.A., Just, E.C. Grubbs-Stalling, R, 2011, Barriers and facilitators to recruiting and training behavioral health professionals as volunteers during a disaster, Kentucky Public Health Association Conference, Louisville, KY, March 9-11, 2011.
19. LaJoie, A. S., Vahrenhold, C. A., Just, E.C., & Grubbs-Stallings, R (2011). Barriers and facilitators to recruiting and training behavioral health professionals as volunteers during a disaster. *Journal of Personality and Social Psychology*.
20. Vahrenhold, C. A., Grubbs-Stallings, R., Just, E. C., & LaJoie, A. S. (2011). Continuing education preferences, facilitators and barriers among behavioral health professionals in Kentucky. *Journal of Continuing Education in the Health Professions*.
21. A. Gupta and G. W. Evans, Simulation Modeling and Analysis for Drive-Through Mass Vaccination-A Generalized Approach, Invited talk by Society of Health Systems at 4th Annual Mayo Clinic Conference on Systems Engineering and Operations Research in Health Care, Minneapolis, MN, Aug 10-12
22. G. W. Evans, A. Gupta, S. S. Heragu, J. Wiggers, and T. v. d. Kracht, Simulation Modeling Approach for Drive-Through Mass Vaccination Clinic, INFORMS 2011 Midwest Regional Conference, Columbus, OH Aug 1-2.
23. Eddy de Haas, Yang Liu, Sunderesh Heragu, Gerald Evans, and Timothy Price, Process Simulation and Cost Analysis of Hospital Emergency Department, INFORMS 2011 Midwest Regional Conference, Columbus, OH Aug 1-2.
24. Lui, Y., Kelley, R., Polina, P., Heragu, S., Kumar, A., 2011, iResTrac: An Architecture for Maintaining Medical Resource Status with Mobile Devices Short Paper, First ACM MobiHoc Workshop on Pervasive Wireless Healthcare, Paris, France, May 16-19, 2011.
25. Paleshi, A., Evans, G.W., Heragu, S.S., Moghaddam, K.S., 2011, Simulation of Mitigation Strategies for a Pademic Influenza, Proceedings of the 2011 Winter Simulation Conference, Phoenix, AZ, Dec 11-14.
26. LaJoie, A.S., Vahrenhold, C.A., Just, E.C., Grubbs-Stallings, R., 2011, Barriers and Facilitators to Recruiting and Training Behavioral Health Professionals as Volunteers During a Disaster, 139th American Public Health Association Meeting, Washington, DC, Oct 29-Nov 2.
27. Gupta, A., Evans, G., Heragu, S., Simulation Modeling and Analysis for Drive-Through Mass Vaccination – A Generalized Approach, Mayo Clinic Conference on Systems Engineering and Operations Research in Health Care, 08/10-08/12.
28. Kelley, R., Gupta, A., Kumar, A., Heragu, S., Using UICDS to Share Data in the Real-time Decision Support System for Pandemic Response, 1st International Workshop on Healthcare Systems Engineering, Beijing China, 10/7/11-10/13/11.
29. Paleshi, A., Evans, G., Heragu, S., Moghaddam, K., Simulation of Mitigation Strategies for a Pandemic Influenza, Proceedings of the 2011 Winter Simulation Conference, Phoenix, AZ, 12/11/11-12/14/11.
30. "Real-time Decision Support System for Healthcare and Public Health and Emergency Services Sectors", Keynote Presentation, 2012 IEEE International Conference on Automation and Logistics, August 15-17, 2012, Zhengzhou, China.

31. Y. Liu, S.S. Heragu, and G.W. Evans, "Modeling a Hospital Emergency Department Using a Closed Queuing Network," Proceedings of the 2012 ISERC Conference, Orlando, FL, May 20-23, 2012.
32. A. S. LaJoie, R. Stallings-Grubbs, S.S. Heragu, Resource Allocation Decision Making During a Pandemic: A Report on the Development of a Decision Support System, European Meeting for the Society for Medical Decision Making, Oslo, Norway, 6/9/2012
33. Heragu, S., Real-Time Decision Support System, 2012 IEEE International Conference on Automation and Logistics, Zhengzhou, China, 8/15/2012.
34. Y. Liu, S.S. Heragu, and G.W. Evans, "Modeling a Hospital Emergency Department Using a Closed Queuing Network," Proceedings of the 2012 ISERC Conference, Orlando, FL, May 20-23, 2012.
35. Kelton, K., Heragu, S., "A Real-Time Estimation and Simulation Model for Pandemic Influenza," Industrial and Systems Engineering Research (ISERC) Conference, 12/2012.
36. Kelton, K., Heragu, S., "EpiCast: Real-Time Simulation of Pandemic Influenza," INFORMS Healthcare 2013.
37. S. Heragu, J.D. Bejarano, F. Majzoubi, M. Zakerifar, K. Kelton, L. Bai, G.W. DePuy, G. Evans, R. Carrico, "Real Time Decision Support System for Pandemic Influenza," INFORMS Healthcare 2013
38. Mathieson, S., LaJoie, S., Stallings, R., "Willingness and attitudes of healthcare workers to report to work during an infectious disease outbreak," Kentucky Public Health Association, Louisville, KY, 3/28/2013
39. Carrico, R., "Physiological and Other Effects and Compliance with Long-Term Respirator Use Among Medical Intensive Care Unit Nurses," American Journal of Infection Control.
40. Majzoubi, F., Bai, L., Heragu, S., "A Heuristic Method fo Transporting Patients to Hospitals," Proceedings of the 2013 Industrial and Systems Engineering Research Conference.
41. Bejarano, J., Heragu, S., DePuy, G., Evans, G., Carrico, R., Simulation of Mass Vaccination Clinics as Points of Dispensing for Pandemic Outbreaks," INFORMS Healthcare Conference, June 2013.