Journal Articles and Published Proceedings Papers


http://www.nyu.edu/its/pubs/connect/spring07/pdfs/naphtali_gis.pdf


**Books and Book Chapters**


Reports


R. Zimmerman and C. Restrepo, “Economics of Security,” Report for the Urban Commerce and Security Study (UCASS) through the Center for Risk and Economic Analysis of Terrorism Events (CREATE) at the University of Southern California, July 2012.


Presentations

2016 (through August):

2015:


2014:


R. Zimmerman, Invited Plenary Lecture, “Adapting Transportation to Global Risk Challenges,” International Association for the History of Transport, Traffic and Mobility (T2M), 12th Annual Conference, Spinoffs of Mobility: Technology, Risk & Innovation, Drexel University,


2013:


R. Zimmerman, “Once Again, the Urban Planning Challenge Associated with Climate Change and Disasters,” DIMACS/CCICADA Workshop on Urban Planning for Climate Events, DIMACS Center, Rutgers University, New Brunswick, NJ, September 23, 2013. dimacs.rutgers.edu/Workshops/Urban/program.html


R. Zimmerman, Presentation on “Rapid/Collaborative Research: Collection of Perishable Hurricane Sandy Data on Weather-Related Damage to Urban Power and Transit Infrastructure,” Science and Technology (S&T) Innovations in Hurricane Sandy Research, sponsored for the NSF by the U.S. DHS Command, Control, and Interoperability Center for
Advanced Data Analysis (CCICADA) and the Center for Discrete Mathematics & Theoretical Computer Science (DIMACS) Special Focus on Algorithmic Decision Theory, Rutgers University, New Brunswick, NJ, June 5, 2013.
http://dimacs.rutgers.edu/Workshops/Sandy/program.html;
http://dimacs.rutgers.edu/Workshops/Sandy/Zimmerman.pdf


http://www.aerc.org/conference2013/Speaker_Presentations/presentation.html#Track I5 Energy Cybersecurity II\Rae Zimmerman


http://www.waterfrontalliance.org/sandynewsflash


2012:


http://www.acsp.org/sites/default/files/2012_ASCP_FINAL_Program_WEB.pdf


2011:

R. Zimmerman, “Risk Perceptions and Actions of WTC Attack Survivors Compared Inside and Outside the WTC Towers,” Rae Zimmerman, New York University; Martin F. Sherman, Loyola University Maryland; Robyn Gershon, Columbia University, Society for Risk Analysis annual meeting, Charleston, SC, December 5, 2011.


R. Zimmerman, Panel moderator, Conference on Alternative Fuel Vehicles and Infrastructure Requirements: Bringing Innovation to our Streets, organized by the Rudin Center for Transportation, NYU-Wagner, June 14, 2011.


2010:


2009:


2008:
R. Zimmerman. Invited presentation (and subsequent paper) on “Public Investment in American Cities: Infrastructure, Services and Delivery,” Shape of the American City, a conference co-sponsored by the Penn Institute for Urban Research and the American Academy of Political Science and Social Science, Philadelphia, PA, October 24-25, 2008.


2007:


2006:
R. Zimmerman, “World Trade Center Evacuation and Communication and Transportation,” World Trade Center Evacuation Study Scientific Meeting, Translating Research into Practice, Columbia University Mailman School of Public Health, New York, NY, September 15, 2006. [Focused on a statistical analysis of the role that infrastructure systems played in enabling survivors to reach initial and ultimate destinations after the attacks.]


2005:


http://www.usc.edu/dept/create/events/2005_02_03/Indicator_Based_Assessments_for_Terrorist_Attacks_Against_Critical_Infrastructure.pdf
2004:

Media Coverage of ICIS Research Associated with CREATE (2005-2007)
NOTE: An ICIS Web page for quick links to recent media coverage is located at: http://www.icisnymu.org/ICISintheNews.php
NYC Subway Flooding, August 8, 2007
Daily News August 10, 2007. Peter Donohue, Robert Gearty, and Jonathan Lemire.“There's no way to stop it. MTA & DEP: Without a costly system upgrade, flooding will happen

Diario Hoy August 9, 2007. www.holahoy.com (NY, LA, Chicago)

http://www.nysun.com/article/60145


Minneapolis Bridge Collapse, August 1, 2007

Frankfurter Allgemeine Zeitung, August 3, 2007
http://www.faz.net/s/RubCD175863466D41BB9A6A93D460B81174/Doc~E8BBF7657A662440E90C17754C5BB74E7~ATpl~Ecommon~Scontent.html
Roland Lindner, “Vereinigte Staaten. Schlechte Noten für die Infrastruktur,”

Video Appearances:


CNN, “Road to Ruin” August 3, 2007, 8-9 pm

Fox 5 News August 2, 2007, 5pm and 6pm

CNN En Español - Encuentro August 2, 2007, 6pm

CNN August 2, 2007, 8-9 pm

WLNYTV August 2, 2007, 11 pm

Steam Pipe Explosion, July 18, 2007 in Manhattan, NYC

http://www.nysun.com/article/58785


The Boston Globe:

Newsday: http://www.newsday.com/search/sns-ap-manhattan-explosion,0,4241766.story

NorthCountyTimes.com:

Thonline: http://www.thonline.com/article.cfm?id=166375

Macleans: http://www.macleans.ca/article.jsp?content=w071979A

Sun Journal (New Bern, NC):
http://hosted.ap.org/dynamic/stories/M/MANHATTAN_EXPLOSION_NOTE?SITE=N CBER&SECTION=HOME&TEMPLATE=DEFAULT

StarTribune.com (Minneapolis-St. Paul):
http://www.startribune.com/484/story/1312064.html

Other Papers

Video Appearances:
- WPIX, July 22, 2007, News Closeup, 6am
- Fox 5 News, July 20, 2007, 5pm
- NY1, July 19, 2007, 7pm and 10pm
  (also see: http://www.ny1.com/ny1/content/index.jsp?aid=71832&search_result=1&stid=8)
- WPIX, July 19, 2007, 10pm
  (repeated November 11, 2007)
  http://www.pbs.org/nbr/site/onair/transcripts/rebuilding_japan_110316/

Selected Media Coverage, 2005-2013

  www.marketplace.org/topics/economy/why-infrastructure-may-be-new-political-buzzword


Steve Anderson, Guest on The Infra Blog, InfrastructureUSA.org
  http://www.infrastructureusa.org/guest-on-the-infra-blog-dr-rae-zimmerman-director-the-institute-for-civil-infrastructure-systems-icis/


Emily Yang, “In an effort to be green, student volunteers paint rooftops white,” Washington Square News, September 27, 2010.


Mike Muller, “A City by the Sea -- or Under It?” *Gotham Gazette*, March 10, 2008 http://www.gothamgazette.com/article/issueoftheweek/20080310/200/2460


NY1 *Inside City Hall* panel on electric power, June 28, 2007, 7pm and 10pm.


**Books from ICIS Research:**

*Beyond September 11th* (NHRAIC, PERI, ICIS, eds., U. Colorado Boulder, 2003)


**EXAMPLES OF SELECTED RESEARCH AREAS AND THEMES**

- Statistical models to estimate economic and social costs and consequences of the impact of natural hazards, accidents, and environmental conditions on urban infrastructure and policy implications for service planning and design
- Resiliency and vulnerability of urban energy, transportation and water services in light of interdependencies among these sectors
- The potential role of cyber attacks and other information technology impacts on the resilience of public services
- Mathematical approaches to estimate critical infrastructure system recovery after a terrorist attack or natural hazard
- Methods of communicating risks to people during catastrophic events to improve emergency management response and reduce adverse impacts
- Social justice dimensions of exposures to natural hazards
- Anticipated impacts of climate change on urban public service resiliency and availability

**RECENT AND CURRENT PROJECTS** (see separate projects page for descriptions at [http://www.icisnyu.org/assets/documents/SummaryProjectsICISAll1207.pdf](http://www.icisnyu.org/assets/documents/SummaryProjectsICISAll1207.pdf))

- Suburban Poverty, Public Transit, Economic Opportunities and Social Mobility, U.S. DOT Region 2 UTRC
- RAPID/Collaborative Research: Collection of Perishable Hurricane Sandy Data on Weather-Related Damage to Urban Power and Transit Infrastructure, NSF
- Resiliency Institute for Storms & Emergencies (NYS RISE), New York State
- Promoting Transportation Flexibility in Extreme Events through Multi-Modal Connectivity, U.S. DOT Region 2 UTRC
- Urban Commerce and Security Study (UCASS) - Economics of Security, Center for Risk and Economic Analysis of Terrorism Events (CREATE) at USC funded by U.S. DHS.
- Center for Interdisciplinary Studies in Security and Privacy, (CRISSP) led by NYU-Poly Integrative Graduate Education and Research Training Program (IGERT) – INSPIRE: Information Security and Privacy: An Interdisciplinary, Research and Education Program, funded by NSF
ASPIRE: An SFS Program for Research and Education, funded by NSF
Workshops on Interdisciplinary Studies in Information Security and Privacy (WISSP10)
Mobile Source Air Toxics (MSATs) Mitigation Measures, led by the Rudin Center, NYSDOT
Waste Containerization, funded by the Fund for Public Health in New York for the NYC Department of Health and Mental Hygiene
South Bronx Environmental Health and Policy Study, funded by the U.S. EPA
Center for Risk and Economic Analysis of Terrorism Events (CREATE) at USC funded by U.S. DHS. NYU Risk Management projects include: Using Infrastructure Density for Resource Allocation Policy; Determinants of Spatial Infrastructure Concentration as Inputs to Resource Allocation; Infrastructure Asset Security; Resource Allocation Based on Critical Infrastructure; Risk, Consequences & Economic Analyses for Terrorist Attacks on Electricity Public Infrastructure Support for Protective Emergency Services, funded by the NYU Center for Catastrophe Preparedness and Response from U.S. DHS
Risk Communication task of the Large Scale Emergency Readiness (LaSER) Project: A Public Health Perspective, funded by the NYU Center for Catastrophe Preparedness and Response from U.S. Department of Homeland Security
Supervisory Control and Data Acquisition (SCADA) Systems and Critical Infrastructures, I3P
Urban Infrastructure Services in a Time of Crisis: Lessons from September 11th, funded by NSF

Selected Workshops and Events

ICIS Workshops, funded by NSF
2nd Annual Conference on Infrastructure Priorities: Advancing Innovation – Educating Infrastructure Professionals to Make a Difference
Learning from Urban Disasters: NSF Response and Opportunities for Future Research
1st Annual Conference on Infrastructure Priorities: National Infrastructure Research Agenda Bringing Information Technology to Infrastructure
International Research Seminar: Social Sustainability of Technological Networks
National Forum on Advanced GIS Applications and Database Needs for Civil Infrastructure Systems
Workshop on Civil Infrastructure Systems (CIS) Education
Coordinated Renewal of Civil Infrastructure Systems for Sustainable Human Environments

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ICIS was established in 1998 with a grant from the National Science Foundation