

CALL FOR PAPERS
SPECIAL ISSUE OF JOURNAL OF BRIDGE ENGINEERING ON "BRIDGE SECURITY"

ASCE Journal of Bridge Engineering invites papers for the special issue on Bridge Security from Blast Loads. Bridge security, i.e., protecting bridge infrastructure to intentional or unintentional blast events, has become an important topic in the last decade, especially in the urban areas. Thus, a bridge has to be designed to sustain not only natural hazards it may face during its service life but also blast load events it may be subjected to. Unlike natural hazards, it is difficult to predict possible blast loads on bridges during their service life that extends, in most cases, beyond 75 to 100 years. Risk and vulnerability assessments play a major role in such cases. Rehabilitation of existing structures and construction of complex bridges also require careful multi-hazard design and analysis considerations to account for interactions between hazards and structural behavior. For example, adding considerable mass in order to harden or conceal bridge components for blast can negatively affect structural behavior under seismic loads. Analysis for blast loading is also relatively new to bridge engineers and researchers while information sharing is relatively restricted for obvious reasons. A recent bridge security workshop organized in the New York City emphasized the need for more information sharing in the areas of blast and multi-hazard design and analysis considerations. Thus, this special issue of the JBE will focus on Bridge Infrastructure Security from blast loads.

Authors are invited to submit their manuscripts in the areas of bridge security, focused on risk/vulnerability assessment, design and analysis procedures, and multi hazard issues, to this special issue of the ASCE Journal of Bridge Engineering by February 28, 2011. Cover letters for the manuscript should clearly indicate that it is being submitted for the special issue on Bridge Security. However, please don't mention that the paper is for the special issue anywhere in the manuscript.

For more information, please either contact Dr. Sreenivas Alampalli (salampalli@dot.state.ny.us), the Guest Editor for this special issue or Dr. Anil Agrawal, Chief Editor (jbe.agrawal@gmail.com). All submitted manuscripts will undergo regular rigorous peer review process. Please submit your manuscript directly at www.editorialmanager.com/jrnbeeng. Please answer yes to a question on the manuscript belonging to the special issue during the submission of the manuscript and mention the name of special issue as "Bridge Security from Blast Loads".