

Creating Scenarios for Seismic Risk Reduction Using Geographic Information Systems

Author(s): Florin Leon • Bogdan-Florin Popa • Gabriela-Maria Atanasiu

Tomme: LIII (LVII) | **Fascicle:** 1-2 | 2007

Pages: 29-34

Abstract text:

This paper presents a GIS-based methodology for monitoring the seismic performance, while taking into account the deteriorations revealed during GIS-based scenarios aiming at the identification of the seismic serviceability of the structure. By applying the geographical information system (GIS) containing geo-spatial data, one can develop useful scenarios to improve the knowledge of structural vulnerability of the urban built infrastructure. Scenarios of modelling, simulation and non-linear seismic analysis are described and applied to a class of damaged models for some of the structures typical of the existing urban infrastructure of Jassy, Romania. The management of GIS-based seismic vulnerability of existing concrete structure is presented as a tool for awareness and mitigation of seismic effects of possible future events in the urban area.

Key Words:

-

[View full text PDF](#) 

Author(s) Information

Florin Leon

Affiliation: „Gheorghe Asachi” Technical University, Jassy, Department of Computer Engineering

Email: -

Bogdan-Florin Popa

Affiliation: „Gheorghe Asachi” Technical University, Jassy, Department of Computer Engineering

Email: -

Gabriela-Maria Atanasiu

Affiliation: „Gheorghe Asachi” Technical University, Jassy, Department of Structural Mechanics.

Email: -

All documents with a  icon require Adobe Acrobat installed on your computer

[Current Issue](#) 

T. LVI (LX), Fasc. 3, 2010

[Browse](#)

[by Issues](#)

[by Authors](#)

[For Authors](#)

[Preparing Artworks](#)

[Manuscript Submission](#)

[Manuscript Template](#)

[Journals Name Abbreviation](#)

[Copyright Transfer Statement](#)

Abstracted & Indexed

The Bulletin of the Polytechnic Institute of Jassy, Construction, Architecture Section is indexed and abstracted in:

Index Copernicus, ProQuest, Ebsco, DOAJ, BASE, Scientific Commons, DRIVER,

WorldWideScience.org, getCITED, ResearchGATE, Ovid LinkSolver, Genamics Journalseek, Electronic Journals Library, WorldCat, Intute.

Ranking

The journal is ranked by the National University Research Council as a B+ quality journal (CNCSIS Code 44).

Search in:



