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Empirical vulnerability assessment and damage description for natural hazards following the principles of modern macroseismic scales



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SUMMARY:
 Empirical vulnerability assessment is connected with the outcome of macroseismic studies and the development of intensity scales. The EMS-98 - as its recent state, including new types of buildings, especially those including earthquake-resistant design features - provides the basic principles, which can be used as the model for other natural hazard phenomena. Maintaining the basic elements, the earthquake-originated concept is adapted to the particularities of flood, tsunami and storm impact. Within a step-by-step procedure the transformation of recently elaborated databases into the vulnerability table of buildings types is explained and extended to the elaboration of hazard-specific damage or vulnerability functions. The developed tools are applied to the reevaluation of the 2010 Dichto (Chile) tsunami generated damage. Finally, a concept for a multi-hazard vulnerability assessment is presented, where the building stock of test areas is classified with respect to the typical earthquake, flood and storm vulnerability classes.

Keywords: natural hazards, multi-hazard approach, damage grades, vulnerability classes and functions.

1. INTRODUCTION

Empirical vulnerability assessment is connected with the outcome of macroseismic studies and the development of intensity scales. The concept of intensity itself has been adopted and modified through the course of the last century. The EMS-98 - as its recent state - is one of a family of intensity scales. The European Macroseismic Scale incorporates a compromise, in which a simple differentiation of the resistance of buildings to earthquake generated shaking (vulnerability) has been employed in order to give the demanded robust way of distinguishing the behavior in which buildings respond to earthquake shaking.

The Vulnerability Table is an attempt to categorize (in a manageable and simple way) the strength of structures, taking both building type or structural system and other (vulnerability affecting) factors (quality of workmanship, state of disrepair, irregularities of shape, layout, design "defects") into account. This is one of the main developments from previous scales, which defined building classes solely by the type of construction (as an analogue of vulnerability). With the EMS, it has been decided to move to classes directly representing vulnerability. Six classes of decreasing vulnerability (A to F) are proposed. The first three classes should be compatible with previous commonly used building categories, representing the strength (or vulnerability) of an adobe (earth brick) house (vulnerability class VC A), brick masonry building (VC B) and reinforced concrete (RC) type structures (here: RC without earthquake-resistant design ERD). In assessing the vulnerability of an ordinary structure in the field, the first step is to assess the building type. This provides the basic ("most likely") vulnerability class.

In previous scales, it was neglected that the different types of buildings respond and fail in different ways; this fact becomes visible by the different types of damage patterns or failure mechanisms. This has been addressed in both EMS versions by giving separate, illustrated accounts of damage to both masonry (see Table 2.1) and R.C. structures.

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RESEARCH ARTICLE

Rapid Seismic Vulnerability and Risk Assessment of Kermanshah Historic Mosques

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Abstract:
Background:
 In this research a rapid vulnerability and risk assessment at a territorial level is performed.

Methods:
 The methodology used, initially proposed for ancient masonry churches, is extended and applied to ten historic masonry mosques in Kermanshah city. The method could be considered as preliminary risk assessment approach of historic structures, refers to LV0 method, since the used methodology requires simple qualitative information. It involves the application of three distinct tools: the exposure, the seismic hazard, and the seismic vulnerability.

Results:
 The comparisons among the obtained results, by considering also the damages suffered during the last earthquakes and war blasts, validate the methodology proposed, capable of providing a seismic risk scoring at a territorial level also for ancient masonry mosques. As known, through this kind of approach, important information is obtained in order to manage and to mitigate the seismic risk of a certain territorial asset. The results show that all ten mosques has medium earthquake vulnerability condition. Emad e Dolah mosque is the most vulnerable case with vulnerability of 34. Navab mosque is located on the most hazardous place. Furthermore, the seismic vulnerability map and seismic risk indices are presented for all the investigated mosques.

Conclusion:
 The obtained results are useful for ranking the priorities and for preliminary defining an interventions plan to be examined in detail with additional quantitative investigations carried out with more refined approaches.

Keywords: Kermanshah historic mosque, Cultural heritage, Seismic risk, Seismic vulnerability, Seismic hazard, Index method.

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1. INTRODUCTION

Seismic activity threatens cultural heritage in seismic regions. Most of the monumental and historical structures are masonry buildings, which often face with cracks in walls, corners, roofs, and floors during earthquakes. These buildings are particularly vulnerable as they have not been rehabilitated for years. Basically, preserving a cultural heritage in its origin-

al characteristics for future generations and finding the most compatible traditional construction methodology with the environment is important in the rehabilitation plan. Therefore, government managers of these properties is responsible for protecting the outstanding monuments and historic structures. The international efforts led to the development of wide range of manuals in this context [1 - 7].

When seismic hazard hits a vulnerable area with a high level of exposure, disaster is inevitable. Seismic risk assessment which are carried out before an earthquake, means the

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SQL Injection Detection and Prevention Tools Assessment

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Abstract—SQL Injection Attacks (SQLIAs) is one of the most serious threats to the security of database driven applications. In fact, it allows an attacker to gain control over the database of an application and consequently, an attacker may be able to alter data. Many surveys have addressed this problem. Also some researchers have proposed different approaches to detect and prevent this vulnerability but they are not successful completely. Moreover, some of these approaches have not implemented yet and users would be confused in choosing an appropriate tool. In this paper we present all SQL injection attack types and also different tools which can detect or prevent these attacks. Finally we assessed addressing all SQL injection attacks type among current tools.

Keyword: SQL Injection Attacks, detection, prevention, tool, assessment.

they performed through ports used for regular web traffic which usually are open in firewalls. On the other hand, most IDSs focus on the network and IP layers whereas SQLIAs work at application layer. Researchers have proposed a range of techniques and tools to help developers to compensate the shortcoming of the defensive coding [14, 15, 16]. The problem is that some current techniques and tools are impractical in reality because they could not address all attack types or have not been implemented yet.

The paper is organized as follows. In section 2 we define SQL Injection attack. In section 3 we present different SQLI attack types. In section 4 we review current tools against SQLI. In section 5 we assessed addressing all SQL injection attacks type among current SQL injection detection or prevention tools. Conclusion and future work are provided in section 6.

II. DEFINITION OF SQLIA

SQL injection is a type of attack which the attacker adds Structured Query Language code to input box of a web form to gain access or make changes to data. SQL injection vulnerability allows an attacker to flow commands directly to a web application's underlying database and destroy functionality or confidentiality.

III. SQL INJECTION ATTACK TYPES

There are different methods of attacks that depending on the goal of attacker are performed together or sequentially. For a successful SQLIA the attacker should append a syntactically correct command to the original SQL query. Now the following classification of SQLIAs in accordance to [4, 11] will be presented.

Tautologies: This type of attack injects SQL tokens to the conditional query statement to be evaluated always true. This type of attack used to bypass authentication control and access to data by exploiting vulnerable input field which use WHERE clause.

`"SELECT * FROM employee WHERE userd = '112 and password = 'aaa OR '1'="`
 As the tautology statement (1=1) has been added to the query statement so it is always true.



Process Explorer also color-codes processes, so you can tell at a glance which ones are your programs and which are background system processes. Between all the various file extensions and codecs, you can never really be sure what you'll need to play any particular file. If you don't follow this format, your vote may not be counted. Luckily, there are free alternatives that are more powerful, more efficient, and take only minutes to install. After you've made your nomination, let us know what makes it stand out from the competition. [Read More](#) Even the smallest companies that lack full-time cybersecurity staff can stay on top of vulnerabilities with Nessus, customizing comprehensive scans to meet unique business needs. Rooting around a RAR with 7Zip. File Transfer It's ironic that one of the simplest things you do in Windows can be one of the most frustrating. It lets you bind hotkeys to all sorts of screenshot commands (capture the whole screen, just a window, and just a region, for instance), and specify what will happen with those screenshots. If you care to dig even deeper, VLC is chock-full of deep features and intriguing tricks, which you can discover in [PCWorld's guide to mastering the media player](#). For most users, the free Paint.NET is a stellar choice. Hit the jump for more details and then nominate your favorite PC maintenance application in the comments. — [Learn more about its power by exploring how Tenable customers put it to work in a variety of critical situations](#). Media playback can be a real quagmire. "Everything" is an indexed search utility that lets you search through every single file on your system, practically instantly. Whether you're recording a podcast, or editing audio from your kid's piano recital, Audacity is all you need—though the stark, option-filled interface can be imposing at first glance. If you wanted more, wouldn't you just switch to Word or (heaven forbid) Wordpad? The internet is a glorious and exciting world, but unless you're properly protected with a good...[Read more](#)About the Hive Five: Our new feature series, the Hive Five, asks readers to answer the most frequently asked question we get—"Which tool is the best?" Once a week we'll put out a call for contenders looking for the best solution to a certain problem, then YOU tell us your favorite tools to get the job done. It's got all the features you expect to see in a modern image editor, like layers, filters and a history pane, all wrapped up in a nice, tidy, UI. VLC is a compact media-player application that will open and play pretty much any media file under the sun. To prevent tampering with the results, votes from first-time commenters may not be counted. Paint Opening up Microsoft Paint is a bit like looking into the past. UPDATE: Check out the five best Windows maintenance tools for the results of this Hive Five. For the most part, Windows' built-in process manager works fine, and it was substantially improved in Windows 8, but sometimes you need a little more. RAR is the second-most common archive format, with a number of advantages, but Windows can't open .rar files by default. In particular, Notepad++ offers a nicely customizable user interface that lets you edit multiple files at once and even includes spell-check. Search The search functionality in Windows 8 is fast and well-integrated with the new Start Screen. With all the files and other data that's flowing in and out of your computer every day, it doesn't take much for your PC to turn into a bit of a mess. Nessus is the world's No. 1 vulnerability scanning solution. Yes, it really is that fast. [Read More](#) To learn more about Nessus features and functionality, visit our [Nessus documentation page](#). The only thing you can predict with certainty is that Windows Media Player probably isn't going to do the job. You can automatically open a Save As dialogue, open the screenshots in a lightweight image editor, or save them directly to your hard drive using a naming scheme of your choice. Audacity lets you record multiple channels of audio at the same time, and then edit, splice and mix them as you see fit. If you're looking for more advanced photo editing options, GIMP is also free, and incredibly powerful, though the complex interface isn't quite as user-friendly as Paint.NET's and suffers from the occasional bug. To learn more about purchasing options, please contact your preferred reseller or visit our online store. Greenshot gives you granular, customizable controls for quick and "just-right" screenshot taking. There are more contenders than you'd expect, but we recommend Greenshot. After all, isn't simplicity the point with Notepad? Process Explorer groups processes into a convenient tree structure, so that it's easy to see your web browser's 30 processes—for example—all in a single place. If you need any sort of image-editing power at all, download a replacement, stat. If you want to compress tons of big files and save as much space as possible, 7zip is a necessity. Screenshots In Windows 8 you can take a screenshot by pressing Win-PrtScn, but to take a whole bunch at once, you should get a dedicated screenshot app. Still, the Start Screen search isn't perfect: It can't find files that aren't executables or documents. Paint.NET is simple and powerful, a rare combination in free software. It also allows you to pause and resume transfers at any time, and even better, it integrates directly with Windows Explorer, so once it's installed you can just drag and drop files like usual but with the full benefits TeraCopy provides. Notepad++'s numbered lines is a huge improvement in and of itself if you're a programmer. Its remarkable ease of use helps students quickly get acclimated to the essentials of uncovering vulnerabilities. [Read More](#) Cybersecurity consultants use Nessus to scour clients' networks for vulnerabilities and create comprehensive reports that summarize security posture and contain key suggestions for remediation. 7Zip is a free utility that can open .zip, .rar, and virtually any other archive file format. Notepad++ is a free plain-text editor that keeps the simplicity of Notepad but adds a bunch of useful new features. That's why for this week's Hive Five, we want to hear more about your favorite Windows maintenance tools. Decompression Sometimes you want something a little more exotic than a standard, compressed .zip file. If you want to search through every file on your system, you have to use the excruciatingly slow File Explorer search. Audio 9 free tools that make Windows much better The built-in audio recorder in Windows is a rare feat of minimalism on Microsoft's part: The whole thing's about 25 pixels tall, and it consists of a single button. Not quite. It's been included in every version of Windows since version 1.0 in 1985, and it hasn't changed much in that time. Notepad As a plain-text editor, Notepad's the sort of program that it's hard to imagine upgrading. As a result, there's no shortage of PC maintenance tools available to help you win the battle for a well kept PC. Before executing full-fledged breach simulations that unveil how attackers can exploit specific weaknesses, pen testers often use Nessus first to identify exactly where those major vulnerabilities are hiding. Some features are designed specifically for programmers, but even if you never touch those, you'll appreciate the upgrade. Every Thursday, we'll report back with the top five recommendations and give you a chance to vote on which is best. Read on, and we'll show you 9 built-in features of Windows that aren't up to snuff, and the free software you can use to replace them. You can't use it to create RAR files (for that, you'd need the for-pay WinRAR), but you can create .zip and .7z files, which offer the best compression of any archive type. For an example, check out last week's Hive Five best desktop media players.Everyone has something on their PC worth watching—that funny video you just shot on vacation, some...[Read more](#) Windows is packed to the rafters with features, many of them great—and others, just meh. We get hundreds of comments, so to make your nomination clear, please include it at the top of your comment like so: VOTE: Maintenance App Goes Here. It also can connect to the Internet to help you identify mysterious processes that are bogging down your computer. Since we've already covered the five best antivirus apps, let's stick to non-antivirus maintenance tools, like our own Belvedere (but, you know, not necessarily Belvedere). Process Explorer is a task manager for power users. For that, there's Process Explorer, an advanced tool offered by Microsoft itself for digging deeper into your active processes. Check out [PCWorld's guide to jumpstarting your recording career with Audacity](#) to learn the ropes and ease into the software's oh-so-deep waters. Or, you can use Everything. To do that, you'll need a better archive program—one like 7Zip. With VLC, you can even play DVDs directly from your DVD drive—a feature that was removed from Windows Media Player in Windows 8. Process manager The Windows process manager, which pops up when you hit Ctrl-Esc-Shift or open the "Processes" tab in the Windows task manager, shows you which programs and processes are running and how much system resources they are using. VLC can play pretty much any media file you want to throw at it. To take the guesswork out of media playback, get VLC. Audacity's no looker, but it's a beast when it comes to sheer utility. For all your audio recording and editing needs, download Audacity. You type and Everything finds what you're looking for, narrowing down the results letter by letter like a faster, local Google Instant Search. You don't have to be an audio engineer to find that a little underwhelming. TeraCopy makes shuffling large batches of files an absolute breeze. Particularly in Windows 7 or earlier, you should immediately update your system with TeraCopy, a free utility that speeds up file moves substantially and protects you from failed transfers—it'll skip over a file that generates an error, rather than sending the entire transfer grinding to a halt. Just type a file name, and before you're done you'll see what you're looking for. You download, create, delete, and move around countless files and endless piles of data on your...[Read more](#)The first round of the Hive Five voting takes place in the comments, where you nominate your favorite tool for the job. File transfers have gotten better in recent versions of Windows, but they can still take a long time, and faulty transfers are a great way to ruin your afternoon (especially if your afternoon consists of shuffling numerous files around). [Read More](#) Professors leading vulnerability assessment or vulnerability management courses use Nessus as a foundational tool. Check out our full [Process Explorer review](#) for a lengthier explanation of the tool's wondrously granular capabilities. For even faster access, pin it to your toolbar.

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