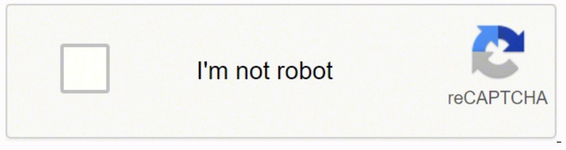

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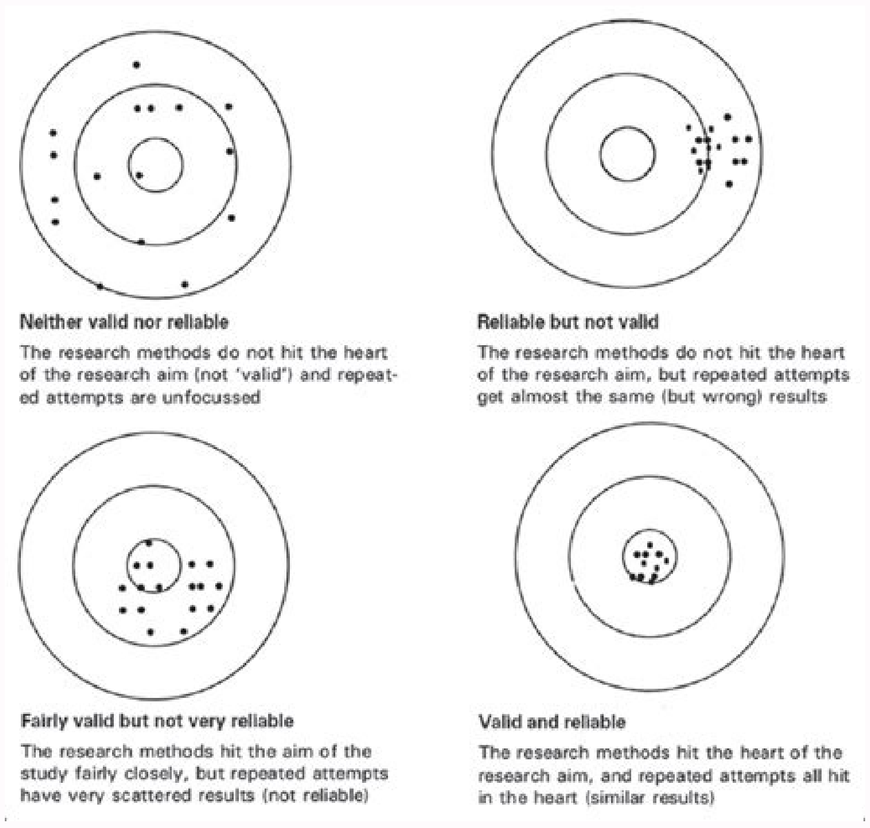

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OPEN RISK ANALYSIS SOFTWARE: DATA AND METHODOLOGIES

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Abstract: Computer risk models and specialized software are necessary to understand, manage and mitigate the impacts of natural and technological hazards to the built environment. Researchers and practitioners alike develop and use such models on a constant basis. As a result, the models are continuously evolving to adapt to new technologies, new data and research outcomes. The majority of the risk analysis software developed up to now is closed in nature. In addition to that, risk software and models currently available to researchers have been developed in a hierarchical closed "Cathedral" fashion and as a result cannot respond quickly to new knowledge. Currently, many researchers and practitioners lack efficient and transparent tools and methods needed for an overall understanding of the nature of risk. The usual pattern is for researchers to either "re-invent the wheel" by writing from scratch similar software or abandon possibly fruitful studies. In order to deal with the needs of the researchers and practitioners, a new approach to risk analysis called Open Risk Analysis (ORA) based on the Free/Open Source Software development open "Bazaar" paradigm was created and promoted by the Alliance for Global Open Risk Analysis (AGORA). This paper discusses this new paradigm, presents some of its methodologies and one example of a tool developed within AGORA.

Keywords: Disaster Risk Management, Risk Analysis, Open Risk, Open Collaboration, Open Source.

1. Introduction

Losses to the built environment due to natural and technological hazards present a heavy burden on a global scale. The costs from the impacts of natural weather related disasters alone follow a dramatically upward path. Data from the Intergovernmental Panel on Climatic Change (IPCC) 2007 show that the global loss from climatic disasters has increased from US$8.9 billion (annual average of the period 1977-1986) to U.S.$45.1 (annual average of the period 1997-2006)[1]. Recent data from EM-DAT[2] and Munich-Re NatCatService[3] regarding the intensities and losses from natural disasters also confirm the upward trend. As the world's population continues to grow and the population density of mega-cities, especially in Asia and the developing world, that are vulnerable to extreme natural disasters follow an irrevocable upward path, the need for a good understanding of the forces behind the natural hazards and how to well manage and mitigate their risk to the built environment becomes a necessity. Catastrophe risk modeling is central to understanding, managing, and mitigating the impacts of natural and technological hazards to the built environment.

Research related to natural and technological catastrophes saw a remarkable growth in the last two decades attributed mainly to the technological advancement of computers. Researchers and practitioners are now able to use powerful supercomputers and sophisticated software to aid them in their research. Researchers use a variety of software in their daily job activities, either to control electronic and mechanical devices, to do simulations, experiments and to record, analyze and process data. Software typically used by researchers is either commercial pre-packaged or custom-made. Custom-made software represents in fact the lion's share of the software used in research. Custom-made software created in the academia, has been following the traditional rules of knowledge dissemination and peer review. That is, in order for the scientific community to validate the results of a specific research, its data, tools (e.g. software) and methodologies have to be transparent and accessible for review:

"The scientific method rests on a process of discovery, and a process of justification. For scientific results to be justified, they must be replicable. Replication is not possible unless the source is shared: the hypothesis, the test conditions, and the results. The process of discovery can follow many paths, and at times scientific discoveries do occur in isolation. But ultimately the process of discovery must be served by sharing information: enabling other scientists to go forward where one cannot;

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The Risklens Platform automates the analysis of cyber and technological risks and risk assessment based on the factorial analysis of the risk of information (FAIRTM), the pattern for quantification Risks. How is an example of Fair Risk Evaluation? Fair risk sample scenario: â € œAnalysis the risk associated with intentional disclosure of information contained in our customer relationship management database. (The workshop guided on the Risklens platform ensures that you start with a well-formed risk scenario.) Learn more: As a scope of a risk analysis using Fair Data Collection with Workshop Risklens keeping in mind the specificities of the Our loss scenario, we collect the data we need for analysis. Read this: How to create valuable qualitative risk analysis presentations based on quantitative results Export relatives Risklens to Easy Presentation of cyber risk assessments by APIs, the relatives of Risklens platform can be exported to a GRC or panel application, such as Tableau. The Fair Analysis divides the risk into factors that can be quantified (in counts, percentages or dollars) to estimate the provisible frequency and the proven magnitude of loss. This is an opportunity to collect data more intensively from experts in the subject, including the relevant historic of cyber incidents, the provisable threat actors, the costs associated with response to incidents or secondary effects, such as And the controls in force such as conducting a detailed analysis of a higher risk on the Risklens platform the organization, for example by type of agent or threatening assets. From this, we can generate a series of financial terms on financial terms to understand our exposure to losses. But before we can begin to fill out the factors with For the scope of an analysis, we first define the business decision we are trying to support (say, how to justify or prioritize security budget investments), then identify the relevant asset (a database of customer information, an e-commerce application, etc) and then we focus on the possible threats (insiders, criminal hackers), the type of loss that concerns us (confidentiality, availability, integrity) and exactly how the loss would occur, summarized in a loss event or risk scenario. Learn more: Quantitative Risk Analysis: You have more data than you think. The platform also exports to native PowerPoint presentations. Again, the workshop format of the RiskLens platform guides the process, for example, for entering estimates, including: How often would a malicious insider attempt to extract PII data? Where internal subject matter experts cannot provide accurate estimates, RiskLens can intervene with plug and play data collected from industry sources and curated by our Data Science team, greatly simplifying the data collection phase. Tip: Do you think you don't have enough data? Tip: Think Fast – Justify and Prioritize Cybersecurity Investment Decisions in One Hour Decision Support Based on Risk Assessment FAIR Based on the RiskLens FAIR Analysis, organizations get a clear directional picture of their main risks to prioritize mitigation sections, but through the Risk Treatment Analysis capability of the RiskLens platform, they gain an extra level of decision support by comparing alternative treatment options for their effect in reducing the risk of a current state, in financial terms. Vulnerability or Susceptibility – How strong are our defenses, for example, to prevent data loss – what percentage of the time one Would privileged be able to break them? Guide to Using Right Risk Riphop In the Risk Platform, detailed the detailed risk analysis, perform an in-depth risk assessment on each of the most urgent scenarios identified by the rapid risk assessment. Risk report for stakeholders, set C or plate A risk platform outputs reports that are easy to follow to get stakeholders superior or not technically, because they are in the financial language of business – the exposure of loss in dollar values. Magnitude: What would be the likely legal costs and penalties of losing control of customer confidential information? Fair techniques help you maximize the value of your data at any level. Here are some Example Risk Assessment Reports: Phishing Top Risks Asset Tip Risk: If stakeholders are used to receive qualitative, low-average cyber risk reports, it is quite easy to bring the rigor of quantitative analysis to warm up maps and the like. Learn more about how to collect frequency and magnitude data. Examples of fair risk assessment: Risk case studies Get a detailed picture of how fair risk assessment guided informed decision-making for these risk clients: the financial firm assesses the risk of data breach from the Shared Storage Operational Risk of a manufacturer's order fulfillment system crash, evaluating the ROI of Data Loss Prevention Controls for a fair risk assessment demonstration on the quantitative risk analysis platform – contact us Fair analysis can assess the return on investment of adding or improving new security controls or processes, as well as see if the existing controls are justifying their cost . Perform fair risk analysis Risk platform executes the data For fair factors through 50,000 holes in a Monte Carlo simulation engine (also widely used in financial and scientific surveys) to generate a range of provisible results â € œ

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