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A novel way to present flood hazards using 3D-printing with transparent layers of return period isolines

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Abstract

This paper examines the 3D printed results of a floodplain analysis usually used for hydrological studies to calculate the probabilities in high water stage features. The analysis was performed using probability distributions, including Pearson type III distribution, Log-Pearson type III distribution, Gaussian (normal) distribution, Gumbel distribution, and Log-normal distribution. The maximum theoretical stages of best fitting distribution for different return periods were mapped to the Vardar and Boshava rivers in the Tikvesh Valley. Data to create the model were extracted from digital elevation models of the Vardar river target area. The extracted 3D surface model was covered with a map showing all the flooded areas in the relevant territory for different return periods as transparent layers. The data were converted into a physical model (relief map) using 3D printing methods for visualisation.

Zusammenfassung

Dieser Artikel untersucht das Ergebnis des 3D-Ausdrucks einer Naturgefahrenabschätzung, wie sie typischerweise in Flussebenen im Rahmen hydrologischer Studien durchgeführt werden, um die Wahrscheinlichkeit von Hochwasserständen abzuschätzen. Die Analyse des Hochwasserrisikos wurde anhand verschiedener bei der Abschätzung von Naturereignissen gebräuchlicher Häufigkeitsverteilungen durchgeführt: der Pearson Typ III Verteilung, der Log-Pearson Typ III Verteilung, der Normal- oder Gaußverteilung, der Gumbel-Verteilung und der Logarithmischen Normalverteilung. Die maximalen theoretischen Pegelstände der jeweiligen besten Häufigkeitsverteilungen für ausgewählte Wiederkehrintervalle wurden für die Flüsse Vardar und Boshava im Tikvesh-Tal (Nordmazedonien) berechnet und kartografisch dargestellt. Als topografische Grundlage wurde das digitale Geländemodell des Vardar Einzugsgebiets verwendet. Die daraus berechnete dreidimensionale Modelloberfläche für jedes Wiederkehrintervall wurde in eine Karte umgewandelt, welche die durch Überschwemmung gefährdeten Gebiete mit transparenten Flächen überlagert. Schliesslich wurden die Ebenen in ein physikalisches Modell (ein topografisches Relief) eingepasst und mittels 3D-Druck zur Veranschaulichung hergestellt.

Keywords 3D printing, modelling, floodplain, Vardar river, GIS

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Table of Contents Hazards Way A Novel

1. Understanding the eBook Hazards Way A Novel
 - The Rise of Digital Reading Hazards Way A Novel
 - Advantages of eBooks Over Traditional Books
2. Identifying Hazards Way A Novel
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Hazards Way A Novel
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hazards Way A Novel
 - Personalized Recommendations
 - Hazards Way A Novel User Reviews and Ratings
 - Hazards Way A Novel and Bestseller Lists
5. Accessing Hazards Way A Novel Free and Paid eBooks
 - Hazards Way A Novel Public Domain eBooks
 - Hazards Way A Novel eBook Subscription Services
 - Hazards Way A Novel Budget-Friendly Options

6. Navigating Hazards Way A Novel eBook Formats
 - ePub, PDF, MOBI, and More
 - Hazards Way A Novel Compatibility with Devices
 - Hazards Way A Novel Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hazards Way A Novel
 - Highlighting and Note-Taking Hazards Way A Novel
 - Interactive Elements Hazards Way A Novel
8. Staying Engaged with Hazards Way A Novel
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hazards Way A Novel
9. Balancing eBooks and Physical Books Hazards Way A Novel
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hazards Way A Novel
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Hazards Way A Novel
 - Setting Reading Goals Hazards Way A Novel
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Hazards Way A Novel
 - Fact-Checking eBook Content of Hazards Way A Novel
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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