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Nota di contenuto	<p>Intro -- Preface -- Organization -- Contents -- Information Analysis for Situation Awareness -- Automatic Calculation of Damage Rate of Roofs Based on Image Segmentation -- 1 Introduction -- 1.1 Problem in Building Damage Investigation -- 1.2 Usage of Aerial Photos Images During Disaster -- 1.3 Study Purpose -- 2 Previous Study -- 3 Development of Automatic Method to Calculate the Rate of Damage on Roof -- 3.1 The Method to Calculate the Rate of Damage on the Roof in the Building Damage Investigation -- 3.2 The Method to Calculate Damage Rate of Roof in This Study -- 3.3 Trimming Algorithm -- 3.4 Shortcomings of this Study -- 3.5 Increase of Data by Division of Roof Surface -- 4 Division of Roof Surface -- 4.1 Previous Study About Roof Surface -- 4.2 Segmentation Model -- 4.3 Used Data -- 4.4 Training Method -- 4.5 Result of Division in the First Experiment -- 4.6 Roof Image with Some Features -- 4.7 Result of Division in Additional Experiment -- 4.8 Image Processing After Division -- 5 Classification of Damage Degree -- 5.1 Classification Model -- 5.2 Data Used -- 5.3 Training Method -- 5.4 Classification Result -- 6 Calculation of Damage Rate -- 6.1 Calculation Method of Estimated Damage Rate -- 6.2 Error of Correct Answer -- 6.3 Comparison of Correct Damage Rate and Estimated Damage Rate -- 6.4 Evaluation of Model Accuracy -- 7 Discussion and Future Tasks -- References -- Flood Disaster Mitigation System Adopting Meteorological Data and Geographic Information Systems -- 1 Introduction -- 2 Related Work -- 3 System Design Requirement Analysis of FDMS Using SD -- 3.1 Outlines of SD -- 3.2 Iceberg Model Analysis -- 3.3 Causal Loop Diagram Analysis -- 3.4 Leverage Points -- 3.5 Observed Data Examples at River -- 3.6 System Concept -- 4 Basic Design and Integration of System -- 4.1 Basic Design of System -- 4.2 Integration of System.</p> <p>5 System Verification -- 6 Conclusion -- References -- Flood Disaster Management System for Situation Awareness and Response Using Twitter Data -- 1 Introduction -- 2 Related Work -- 2.1 Situation Awareness -- 2.2 Usage of Social Media for Situation Awareness During Disasters -- 2.3 Disaster Response and Relief -- 2.4 Originality of the Present Study -- 3 System Design -- 3.1 System Configuration -- 3.2 Data Collection -- 3.3 Extraction of Information Location -- 3.4 Web Application -- 3.5 Situation Awareness -- 4 System Development -- 4.1 System Frontend -- 4.2 System Backend -- 4.3 System Operation Environment -- 4.4 Operation Target Area -- 5 Conclusion -- References -- Evacuation and Rescue -- Proposed Evacuation Behavior Model Using Open-Source Data: Flood Disaster Case Study -- 1 Introduction -- 2 Related Studies -- 3 Evacuation Model Concept -- 3.1 Evacuation Decision Process Model -- 3.2 Calculation of Evacuation Shelter Choice Probability -- 3.3 Evacuee Rate Calculation -- 4 Simulation -- 4.1 Algorithm Overview -- 4.2 Target Area and Data -- 4.3 Data Used in the Simulation -- 4.4 Explanatory Variables -- 4.5 Scenarios -- 4.6 Optimization Method -- 4.7 Comparison Between Actual and Predicted Number of Evacuees -- 4.8 Field Survey -- 5 Conclusion -- References -- Agent-Based Tsunami Crowd Evacuation Simulation for Analysis of Evacuation Start Time and Disaster Rate in Zushi City -- 1 Introduction -- 2 Methods -- 2.1 Modelling of Target</p>

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Sommario/riassunto

This volume constitutes the refereed and revised post-conference proceedings of the 6th IFIP WG 5.15 International Conference on Information Technology in Disaster Risk Reduction, ITDRR 2021, in Morioka, Japan, in October 2021. The 11 full papers presented were carefully reviewed and selected from 18 submissions. The papers focus on various aspects and challenges of coping with disaster risk reduction. The papers are categorized in the following topical subheadings: Information Analysis for Situation Awareness; Evacuation and Rescue; COVID-19 Issues; and IT Use for Risk and Disaster Management. .
