Record Nr. UNINA9910561294303321 Information Technology in Disaster Risk Reduction: 6th IFIP WG 5.15 **Titolo** International Conference, ITDRR 2021, Morioka, Japan, October 25–27, 2021, Revised Selected Papers / / edited by Jun Sasaki, Yuko Murayama, Dimiter Velev, Plamena Zlateva Pubbl/distr/stampa Cham:,: Springer International Publishing:,: Imprint: Springer,, 2022 **ISBN** 3-031-04170-4 Edizione [1st ed. 2022.] Descrizione fisica 1 online resource (182 pages) IFIP Advances in Information and Communication Technology, , 1868-Collana 422X;;638 353.950285 Disciplina Soggetti Application software Computer engineering Computer networks Coding theory Information theory Social sciences - Data processing Computer and Information Systems Applications Computer Engineering and Networks Coding and Information Theory Computer Application in Social and Behavioral Sciences Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Nota di bibliografia Includes bibliographical references and index. Nota di contenuto 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

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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.