

## CONTENTS

1. Landslide Disasters by the Fukuoka Earthquake in 2005 . . . . . 1  
Tetsuya Kubota, Hiroshi Omura, Masamichi Matsumoto, Hasnawir,  
Hisayoshi Takeishi and Nobuyuki Kayashima
2. Relationships between Landslide due to Earthquake and Potential Erosion-Rate  
– A Case Study in 2004 Niigata Chuetsu Earthquake – . . . . . 7  
Kouichi Hasegawa, Iwao Suetomi and Kazue Wakamatsu
3. The Slope Failure and the Slope Prevention Works due to the Mid Niigata Prefecture Earthquake in 2004 . . . . . 13  
Kazaru Hirata
4. Urgent Countermeasure Construction for Imogawa River Channel Blockage by Fiber-Cement-Stabilized Method  
. . . . . 19  
Hiroshi, Takahashi, Masato Mori, Satoshi Shibata and Kazunori Sasaki
5. Fundamental Study on Continuous Recovery System for Soft Sludge Generated at Disaster Site . . . . . 25  
Hiroshi Takahashi, Kenta Takahashi and Yuko Suto
6. (Invited Paper) How to Manage Vegetation on the Slopes . . . . . 31  
Takashi Hoshiko
7. Permeability and Strength Characteristics of Surface Soil Containing Tree Roots and its Substitutes . . . . . 35  
Motoyuki Suzuki, Tetsuro Yamamoto and Masaya Nishimura
8. A Proposal on Monitoring of Slope Instability and Prediction of Shallow Slope Failure Using an Optical-Fiber  
Sensing . . . . . 41  
Atsushi Furuya, Hidetoshi Kohashi and Syunji Kato
9. Field Monitoring in Order to Predict a Slope Failure at a Slope on the Periphery of Kyoto . . . . . 47  
Kazunari Sako, Kenichi Iwasaki, Tomoaki Satomi, Ryoichi Fukagawa and Ikuo Yasukawa
10. Proposal of Extraction Method of Deep Collapse in Mountain Stream Based on Topographic and Geological  
Features . . . . . 53  
Naoki Sakai, Ryuji Suzuki and Junnichi Kurihara
11. Studies on Disaster-Related Geomorphology and Vegetation Using Satellite 3D Images . . . . . 59  
Kisei Kinoshita, Nobuya Tomioka and Hirotsugu Togoshi
12. Sediment Movement Analysis Using Dem Extracted from High-Resolution Satellite Images in the Da-Chia River  
Watershed in Taiwan . . . . . 65  
Takashi Shiraishi, Ken Tsutsui, Hideaki Nakagawa, Yasuhiro Mitani and Tetsuro Esaki
13. Estimation of Amount of Driftwoods Caused by Heavy Rainfall . . . . . 71  
Muneo Hirano, Tamishiro Harada and Makoto Hikida

14. Grid Based Analysis of Slope Failure Factor and Estimation of Sediment and Woody Debris Yield on Saru River Basin . . . . .	75
Yasuhiro Murakami, Shoji Yamashita and Takashi Akaiwa	
15. Study on Prediction of Sediment Budget in Tenjin River Basin . . . . .	81
Takashi Ohki, Toru Kojima, Koji Kawatsu, Toru Nagata and Yohei Kato	
16. Consideration to Sediment Management of Existing Dam . . . . .	87
Hisashi Sawada, Hisayuki Yoshinaga and Takashi Notsuka	
17. Observation of Flow and Turbidity in a Reservoir during Flood with a Gate . . . . .	93
Tomonori Shimada and Yasuharu Watanabe	
18. Study on Red Soil Improvement to Reduce the Marine Damage due to Outflow of Red Soil . . . . .	99
Hiroshi Takahashi, Hiroyuki Nakamura, Masato Mori and Kenji Kotani	
19. Relationship between Rain and Land-Disasters by Soil Water Index . . . . .	105
Kenji Okada	
20. Examination about Critical Line for Disaster Occurred Area in the Typhoon No. 14 in 2005 . . . . .	111
Hiroyuki Ohishi, Kotaro Matsumoto and Kohei Furukawa	
21. Realtime Hazard Map for Debris Flow Using Precipitation Radar . . . . .	117
Toshiyuki Moriyama and Makoto Hikida	
22. The Present Condition of Voluntary Organizations for Disaster Prevention in Kumamoto and Communication of Information . . . . .	123
Yoshito Kitazono and Takahiro Yamakawa	
23. <b>(Special Paper)</b> Improvement of System for Disaster Information in Kumamoto . . . . .	129
Tadanobu Kira	
24. Prediction of Large-Scale Debris Flow Based on the Hogawachi Debris Flow Disaster in 2003 . . . . .	133
Yoshito Kitazono, Yoshitaka Hase, Shin Kudo, Shogo Sakamoto, Yasuhide Fukuda and Akiko Iwauchi	
25. The Debris Flow Disaster in Kokonoe, Oita Prefecture on July 10, 2005 . . . . .	139
Hiroki Takaoka, Haruyuki Hashimoto, Makoto Hikida, Kazuhiko Yamasaki and Manabu Terawaki	
26. <b>(Keynote Paper)</b> Sediment-Related Disaster Caused by Typhoon No.14 on September 6 <sup>th</sup> , 2005, in Miyazaki Prefecture . . . . .	145
Yoshinobu Taniguchi	
27. Slope Failure Disasters in Northern Slope of Mt. Wanitsuka due to Heavy Rainfall by the Typhoon 0514 in Miyazaki Prefecture . . . . .	151
Mitsuhsa Koga, Takuzo Kasahara and Akira Ushiro	
28. Debris Flows at Mt. Wanitsuka in Miyazaki Prefecture on September 6, 2005 . . . . .	157
Hiroki Takaoka, Haruyuki Hashimoto, Takuya Tagomori, Mitsuhsa Koga and Kazuhiko Yamasaki	

29. Study of the Characteristics of Seismic Waves Associated with Landslide Dams and Estimation of Collapsed Point Using the Data of High Sensitivity Seismograph Network . . . . .	163
Tsuneo Ohsumi, Hiroshi Asahara and Esturo Shimokawa	
30. A Research on Relationship between Disaster Mitigation and Information on Heavy Rainfall Disaster Caused by Typhoon No. 0514 in Hinokage Town, Miyazaki Prefecture . . . . .	169
Motoyuki Ushiyama	
31. Landslides in Taketa, Oita Prefecture Caused by Typhoon 0514 . . . . .	175
Daizo Tsutsumi, Masaharu Fujita, Hajime Nakagawa and Yujiro Hayashi	
32. Topographical and Geological Characteristics of Landslide Disaster in Southern Part of Kumamoto Prefecture in 2005 . . . . .	181
Yoshito Kitazono, Shin Kudo, Shogo Sakamoto and Akiko Iwauti	
33. Sediment Disasters and Their Causes in Hiroshima Prefecture Induced by the Typhoon Nabi (T0514) in 2005 . . . . .	187
Masahiro Kaibori, Shinji Nakai, Naoki Oomoto, Kouji Morita and Yuji Sakuno	
34. Sediment Disasters in Southern Kyushu Island Caused by Typhoon 200514 (NABI) . . . . .	193
Takafumi Suzuki, Shinichi Matsumoto and Ryouyuke Kitamura	
35. Field Research and Some Problems to be Solved on Tarumizu Debris-Flow Disaster in 2005 . . . . .	199
Makoto Hikida, Haruyuki Hashimoto, Shigeru Ogawa and Toshiyuk Moriyama	
36. Investigations of Disaster of Debris Flow in Tarumizu Study Based on the Theory of "Honke-Bunke" . . . . .	203
Shigeyuki Murata	
37. Use of Sediment Disaster Warning System and Evacuation Behaviors of Residents of Kotani District in Tarumizu City during Typhoon No.14 in 2005 . . . . .	209
Kazuo Takahashi, Kengo Houchi and Shozo Nakamura	