

CURRICULUM VITAE

Netra P. BHANDARY

Professor

Graduate School of Science and Engineering
(Also with Center for Disaster Management Informatics Research and
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3 Bunkyo-cho, Matsuyama 790-8577, Japan



PERSONAL DATA

Full Name: Netra Prakash Bhandary
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E-mail: netra@ehime-u.ac.jp; netrapb@hotmail.com
Birth: October, 1969; Dang, Nepal
Nationality: Nepalese
Languages: Nepalese (mother tongue), English, Japanese, and Hindi

EDUCATION & RESEARCH HISTORY

2013.7~2013.9 Visiting Researcher, California State University, Fullerton (California, USA)
2000.4~2003.3 PhD in Engineering, Ehime University, Japan
Thesis: *Creep activation of landslides and related problems in active fault zones of Shikoku under the influence of expansive clay minerals*
1998.4~2000.3 MSc in Geotechnical Engineering, Ehime University, Japan
Thesis: *Role of expansive clay minerals in landslide soil*
1997.11~1998.3 Research Student, Faculty of Engineering, Ehime University
1989.10~1993.9 B. Sc. in Civil Engineering, Aligarh Muslim University, India
1985.8~1987.7 I. Sc. (Proficiency Certificate Level in Physical Science), Amrit Science College (TU), Kathmandu
1977.1~1984.12 Secondary School Education, Siddha Prithvi Janata High School, Srigaun, Dang
1974.1~1977.12 Primary School Education, West Tulsipur Primary School, Dhanauri, Dang

EMPLOYMENT HISTORY AND POSITIONS HELD

2026.4~ Professor, Graduate School of Science and Engineering, Interfaculty Graduate School of Regional Resilience, Center for Disaster Management Informatics Research, Ehime University, Japan
2024.4~ Program Coordinator, Special Graduate Course on Disaster
2020.4~2025.3 Director, Center for Disaster Management Informatics Research, Ehime University, Japan
2019.4~2024.3 Chair, Department of Environmental Design (Faculty of Collaborative Regional Innovation), Ehime University
2019.4~2025.3 Professor, Department of Environmental Design (Faculty of Collaborative Regional

	Innovation), Graduate School of Science and Engineering, Center for Disaster Management Informatics Research, Ehime University, Japan
2017.4~2020.3	Deputy Director, Center for Disaster Management Informatics Research, Ehime University, Japan
2016.4~2019.3	Associate Professor, Department of Environmental Design (Faculty of Collaborative Regional Innovation), Graduate School of Science and Engineering, Ehime University, Japan
2015.4~2019.3	Associate Professor, Center for Disaster Management Informatics Research, Ehime University, Japan
2015.4~2016.3	Associate Professor, Department of Civil and Environmental Engineering, Graduate School of Science and Engineering, Ehime University, Japan
2006.4~2015.3	Assistant Professor, Department of Civil and Environmental Engineering, Graduate School of Science and Engineering, Ehime University, Japan
2003.4~2006.3	Assistant Professor, Faculty of Engineering, Ehime University, Japan
1997.7~1997.10	Project Manager, Nepal Engineering College Campus Development Project
1995.11~1997.6	Head, Department of Civil Engineering, Nepal Engineering College
1994.11~1997.10	Assistant Professor, Nepal Engineering College, Kathmandu, Nepal
1993.10~1994.10	Field Engineer, Jayee Construction Company, Kathmandu, Nepal

RESEARCH TOPICS

- ✓ Residual strength of clay soil, expansive clay
- ✓ Residual-state creep behavior of landslide clays
- ✓ Mechanism of creeping landslides and preventive measures
- ✓ GIS, Landslide disasters, and Landslide hazard mapping
- ✓ Ambient vibration survey method for earthquake hazard mitigation
- ✓ Natural disasters and public awareness
- ✓ Disaster risk reduction and disaster education

MEDALS AND AWARDS

2026.5	<i>Life Time Achievement Award 2026</i> , Nepal Geotechnical Society
2025.11	<i>Best Presentation Award</i> , Japanese Geotechnical Society, Shikoku Branch Annual Research and Technology Conference, 2025.11.6-7, Kochi (Student: Jaya Bahadur Bista)
2025.11	<i>Best Students Oral Presentation Award</i> , 4 th International Symposium on Disaster Resilience and Sustainable Development, 2025.11.24-26, Asian Institute of Technology, Bangkok (Student: Tatul Atalyan)
2025.6	<i>Best Presentation Award</i> , Japan Society of Civil Engineers, Shikoku Branch Annual Research and Technology Conference, 2025.6.7, Matsuyama, Ehime (Student: Harish Paneru)
2018.9	<i>Best Activity Award 2017</i> , International Consortium on Geo-Disaster Reduction
2016.10	<i>Best Research Paper Award</i> , Journal of Geoenvironmental Disasters, International Consortium on Geo-Disaster Reduction
2014.9	<i>Best Paper/Presentation Award</i> , 12th International Symposium on Geo-disaster Reduction (U.S.A.)
2012.2	<i>Best Presentation Award</i> , 10th International Symposium on Mitigation of Geo-disasters in Asia (Japan), Shimane, Japan
2004.2	<i>Mahendra Viddya Bhushan 'Class A' Medal</i> by the King of Nepal
2004.2	<i>Mahendra Viddya Bhushan 'Class B' Medal</i> by the King of Nepal
2003.5	<i>Best Paper/Presentation Award</i> , International Symposium on Groundwater Problems Related to Geo-environment, IS-Okayama 2003, Japan
2003.5	<i>Best Paper/Presentation Award</i> , 4-University Students Research Program (Shimane

University, Yamaguchi University, Ehime University, Kochi University) in west Japan
 1994.2 Mahendra Viddya Bhushan 'Class C' Medal by the King of Nepal

PROFESSIONAL AFFILIATION

2026.6~ Executive Director, Investigation and Research, Japanese Geotechnical Society
 2025.6~ Director, Board of Directors, Japanese Geotechnical Society
 2025.4~ Member, Japan Society for Natural Disaster Science
 2024.6~ Chair, Ehime Prefecture Committee for Earthquake Damage Estimation
 2023.10~ Chair, Ehime Prefecture Committee for Construction Project Tendering Process Evaluation
 2024.4~ Secretariat Member, Shikoku Branch of Japanese Geotechnical Society
 2024.7~ Deputy Director General, International Consortium on Geo-Disaster Reduction
 2023.7~2025.6 Executive Member, Japan Society of Civil Engineers, Shikoku Branch
 2023.4~2024.3 President, Shikoku Branch of Japanese Geotechnical Society
 2019~2023 Member, GIS Association of Japan (President of GISA Shikoku Chapter: 2019~2020)
 2018~ Associate Member Representative, International Consortium on Landslides
 2018~2023 President, Nepal Geotechnical Society
 2015~2019 Member, (Coordinator, Project Collaboration Committee) International Consortium on Geo-disaster Reduction
 2015.4~2023.3 Secretariat Member, Shikoku Branch of Japanese Geotechnical Society
 2014~ Member, Japan Landslide Society
 2012~2018 Member, American Society of Civil Engineers
 2011~ Founder Member, Himalayan Landslide Society (Nepal)
 2010~2017 Vice President, Nepa Geotechnical Society
 2003~2008 Alternate Representative (Ehime University), International Consortium on Landslides
 2003~ Member, International Society of Soil Mechanics and Geotechnical Engineering
 2003~ Life Member, Nepal Geotechnical Society
 2002~ Member, Japan Society of Civil Engineers
 2000~ Member, Japanese Geotechnical Society
 1994~ Life member, Nepal Engineers' Association

RESEARCH GRANTS RECEIVED

2018 Mechanism of Slope Deformation and Failure during Repeated Rainfall: Improvement of Critical Rainfall Amount for Evacuation in Potential Landslide Disasters; from the Ministry of Education, Culture, Science, and Technology, Japan (involving 4 researchers from Gunma University, Kochi University, and Ehime University; Team Leader: Prof. A. Wakai, Gunma University) (Amount: 14,560,000 yen, Period: Three years)
 2017 A fundamental study on the influence of Kathmandu Valley ground structure and its physical properties on damage during the Nepal Earthquake; from the Ministry of Education, Culture, Science, and Technology, Japan (involving 4 researchers from different universities in Japan; Team Leader: A/Prof. S. Mori, Ehime University) (Amount: 9,400,000 yen, Period: Three years)
 2015 Replication of integrated disaster education system in Himalayan nations focusing at research and education; from the Ministry of Education, Culture, Science, and Technology, Japan (involving 6 researchers from different universities in Japan; Team Leader: Prof. R. Yatabe, Ehime University) (Amount: 15,000,000 yen, Period: Three years)
 2015 Integrated research on 2015 Nepal Earthquake and related disasters; from the Ministry of Education, Culture, Science, and Technology, Japan (involving 14 researchers from different universities and research institutes in Japan; Team Leader: Prof. R. Yatabe, Ehime

- University) (*Amount: 20,000,000 yen, Period: 10 months*)
- 2015 Stability evaluation and design method for roadside cut-slopes considering stress release in expansive clay seams; from West Nippon Expressway Company (NEXCO), Japan (*Amount: 4,000,000 yen, Period: one and half years; Lead Researcher: N. P. Bhandary*)
- 2012 *Residual-state creep shear behavior of clayey soils and long-term landslide stability assessment*; from the Ministry of Education, Culture, Science, and Technology, Japan (*Amount: 4,000,000 yen, Period: Three years; Lead Researcher: N. P. Bhandary*)
- 2012 *Replication of integrated disaster education system in Himalayan nations focusing at research and education*; from the Ministry of Education, Culture, Science, and Technology, Japan (involving 7 researchers from different universities and research centers in Japan; Team Leader: Prof. R. Yatabe, Ehime University) (*Amount: 13,800,000 yen, Period: Three years*)
- 2011 *A fundamental study on monitoring neighborhood groundwater quality and its applicability in landslide prevention technique*; Shikoku Kensetsu Kousai-kai (N. P. Bhandary & F. Nishimura; *Amount: 1,000,000; Period: One year*)
- 2009 *An integrated study of rainfall- and earthquake-induced disasters in the Himalayan watershed for a strategic development of disaster education system in the region*; From the Ministry of Education, Culture, Science, and Technology, Japan (involving 7 researchers from different universities and research centers in Japan; Team Leader: Prof. R. Yatabe, Ehime University) (*Amount: 14,700,000 yen, Period: Three years*)
- 2008 *A study about the capability of transportation system in isolated regions during Nankai Earthquake in Shikoku, Japan*; From the Ministry of Education, Culture, Science, and Technology, Japan (involving 6 researchers from different universities and research centers in Japan; Team Leader: Prof. R. Yatabe, Ehime University) (*Amount: 15,400,000 yen, Period: Three years*)
- 2007 Evacuation route optimization technique for a landslide-prone area in Shikoku; Shikoku Kensetsu Kousai-kai (T. Futagami & N. P. Bhandary; *Amount: 1,000,000, Period: One year*)
- 2006 *Earthquake disaster management and protection of world cultural heritages in Nepal*; from the Ministry of Education, Culture, Science, and Technology, Japan (involving 7 researchers from different universities and research centers in Japan; Team Leader: Prof. R. Yatabe, Ehime University) (*Amount: 4,000,000 yen, Period: Three years*)
- 2005 *Mechanism of landslide creep and preventive measures*; from Daiichi Consultants, Kochi, Japan (*One year*)
- 2004 *Development and application of geo-information database in Matsuyama plains*; from Geo-environmental Research Institute, Osaka, Japan (with R. Yatabe and M. Okamura, Ehime University) (*One year*)
- 2003 *A study on the mechanism of large-scale landslide disasters in Hindukush Himalayan Watersheds and their preventive measures*; from the Ministry of Education, Culture, Science, and Technology, Japan (involving 8 researchers from different universities in Japan and Nepal Engineering College, Nepal; Team Leader: Prof. R. Yatabe, Ehime University) (*Three years*)
- 2001 *Adsorption and strength characteristics of smectite-rich clay used as a natural barrier in waste disposal sites*; from the Japan Science Society, Sasakawa Science Research Grant (*One year*)
- 1997 *Earthquake considerations in the ancient structures of Nepal* from the University Grant Commission, Nepal (with J. Subedi, Nepal Engineering College) (*One year*)

MAJOR PUBLICATIONS

Google Scholar: <https://scholar.google.co.jp/citations?user=yEHF6nUAAAAJ&hl=en>

Researchmap: <https://researchmap.jp/read0064498/?lang=en>

**For details, please refer to the publication list in the following pages.*

[1] **Ph.D. Eng. Thesis**

Creep Activation of Landslides and Related Problems in Active Fault Zones of Shikoku under the Influence of Expansive Clay Minerals

[2] **Books**

- 1) Proceedings of GeoMandu 2024 Volume 1: *Earthquake Engineering and Seismic Design*, Netra Prakash Bhandary, Binod Tiwari, Indra Prasad Acharya, Mandip Subedi, Dhundi Raj Pathak, Keshab Sharma, Springer Singapore 2026.1 (ISBN: 9789819679218)
- 2) Proceedings of GeoMandu 2024 Volume 2: *Climate Change and Geohazards*, Netra Prakash Bhandary, Binod Tiwari, Indra Prasad Acharya, Mandip Subedi, Dhundi Raj Pathak, Keshab Sharma, Springer Singapore 2026.1 (ISBN: 9789819685288)
- 3) Proceedings of GeoMandu 2024 Volume 3: *Geotechnics for Sustainability*, Netra Prakash Bhandary, Binod Tiwari, Indra Prasad Acharya, Mandip Subedi, Dhundi Raj Pathak, Keshab Sharma, Springer Singapore 202.12 (ISBN: 9789819685325)
- 4) Proceedings of GeoMandu 2024 Volume 4: *Ground Improvement and Environmental Geotechnics*, Netra Prakash Bhandary, Binod Tiwari, Indra Prasad Acharya, Mandip Subedi, Dhundi Raj Pathak, Keshab Sharma, Springer Singapore 2025.10 (ISBN: 9789819685363)
- 5) Application of Spectral Element Method (SEM) in Slope Instability Analysis
Ram Chandra Tiwari, Netra Prakash Bhandary
In “Progress in Landslide Research and Technology” (Eds.: Sassa, K., Konagai, K., Tiwari, B., Arbanas, Ž., Sassa, S.), 1(1) 163-174, Jan 11, 2023
- 6) Experimental Simulation of Landslide Creep in Ring Shear Machine
Netra Prakash Bhandary
In “Progress in Landslide Research and Technology” (Editors: Irasema Alcántara-Ayala, Željko Arbanas, David Huntley, Kazuo Konagai, Matjaž Mikoš, Kyoji Sassa, Shinji Sassa, Huiming Tang, Binod Tiwari), 1(2) 75-85, Jan 11, 2023
- 7) 防災・環境のための GIS, 編集者: 山岸 宏光 (担当: 分担執筆, 範囲: 【第 I 部】 防災 GIS : 四国の地すべりデータベースの構築とハザードマップの試み (バンダリ ネットラ プラカシ・山岸宏光・矢田部龍一)), 古今書院 2018 年 8 月 (ISBN: 9784772271479)
- 8) *GIS Landslide*. Yamagishi H, Bhandary NP (eds), Springer Tokyo (2017.5)
- 9) *Progress of Geo-Disaster Mitigation Technology in Asia*, F. Wang, M. Miyajima, T. Li, W. Shan, and T. F. Fathani (eds)
Chapter 6, pp.123-156, With Ranjan Kumar Dahal; Springer Berlin Heidelberg (DOI: 10.1007/978-3-642-29107-4); 2013
- 10) *Disasters and Development: Investing in Sustainable Development of Nepal*, N. P. Bhandary and J. Subedi (eds)
Co-authored: Chapter 1, pp.1-9, Chapter 5, pp.69-91, Chapter 9, pp.159-181, Chapter 11, pp.197-204, Vajra Publications, Kathmandu (Nepal), 2010
- 11) *Institutional Approach to Disseminating Disaster Management Knowhow in Asia –A case of Ehime University in Nepal–*, R. Yatabe and D. Bhattarai (eds)
Center for Disaster Management Informatics Research, Ehime University, 2008
- 12) *Progress in Landslide Science*, K. Sassa, H. Fukuoka, F. Wang, G. Wang)
Chapter 13, pp.183-192, With R. Yatabe, Springer Berlin Heidelberg, 2007 (DOI: 10.1007/978-3-540-70965-7)
- 13) *Landslides: Risk Analysis and Sustainable Disaster Management*, K. Sassa, H. Fukuoka, F. Wang, G. Wang (eds)
Chapter 27, pp.219-223, With R. Yatabe and S. Takata, Springer Berlin Heidelberg, 2005 (DOI: 10.1007/3-540-28680-2)
- 14) *Landslide Hazard Mapping along Major Highways of Nepal: a reference to road building and maintenance*, R. Yatabe, N. P. Bhandary, and D. Bhattarai (eds)
Co-authored: Chapter 1, Chapter 2, Chapter 3, Chapter 5, Chapter 6, Chapter 7
Ehime University and Nepal Engineering College, 2005

[3] Major Research Articles

⟨1⟩ Peer-reviewed Journal Papers

- 1) Post-flood structural rehabilitation of a reinforced concrete bridge: a multi-tiered intervention strategy in a dynamic alluvial river system in Nepal
Jibendra Misra, Netra Prakash Bhandary
Innovative Infrastructure Solutions, 11(357) 1-20 2026.6.8
- 2) Integration of machine learning model and CMIP6 analysis for climate change impact-led landslide susceptibility and population exposure assessments in the Nepal Himalaya
Tulasi Ram Bhattarai, Netra Prakash Bhandary
Geoenvironmental Disasters, 13(30) 1-21, Apr 26, 2026
- 3) Integration of information value with machine learning method for an enhanced predictive performance in landslide susceptibility mapping
Buddhi Raj Joshi, Netra Prakash Bhandary, Indra Prasad Acharya, K. C. Niraj, Chakra Bhandari
Discover Geoscience, 4(152) 1-36, Apr 21, 2026
- 4) Physics-regularized neural networks for predicting soil compaction parameters
Harish Paneru, Netra Prakash Bhandary
Transportation Geotechnics, 102046 1-16, Apr 15, 2026
- 5) Physically Validated Rainfall Thresholds for Roadside Landslides Using SMAP Soil Moisture and Antecedent Rainfall Models
Suresh Neupane, Netra Prakash Bhandary, Dericks Praise Shukla
Geosciences, 16(4) 150, Apr 7, 2026
- 6) Slope unit-based evaluation of climate change impacts on landslide susceptibility in the Nepal Himalaya
Tulasi Ram Bhattarai, Netra Prakash Bhandary
Geomatics, Natural Hazards and Risk, 17(1) 1-23, Mar 26, 2026
- 7) A Comparative Analysis of Vertical Behaviors of Conventional and Composite Caisson-pile Foundation
Jibendra Misra, Netra Prakash Bhandary
Transportation Infrastructure Geotechnology, 13:77 1-29, Mar 23, 2026
- 8) Effect of Phyllosilicate Enrichment on the Residual Shear Strength of Thrust Zone Landslide Soils in the Mid-Nepal Himalaya
Suresh Neupane, Netra Prakash Bhandary, Saurav Sharma
Geotechnical and Geological Engineering, 44:173 1-26, Mar 21, 2026
- 9) Comparative analysis of slope and grid units for co-seismic landslide susceptibility mapping using machine learning methods
Tulasi Ram Bhattarai, Netra Prakash Bhandary
Discover Geoscience, 4:121 1-32, Mar 20, 2026
- 10) Experimental Insights Towards Understanding the Possibilities of Using Chloride Substances in Landslide Stabilization
Saurav Sharma, Netra Prakash Bhandary
Geotechnics, 6(1) 17, Feb 4, 2026
- 11) Cross-model feature-importance analysis of soil properties for predicting optimum moisture content and maximum dry unit weight of fine-grained soils
Harish Paneru, Netra Prakash Bhandary
Soils and Foundations 2026.1.22
- 12) Assessing Landslide Susceptibility in Central Nepal Himalaya: A Comparative Study of Frequency Ratio and Random Forest Machine Learning Approaches
Tulasi Ram Bhattarai, Netra Prakash Bhandary
GeoHazards 7(1) 1-26, 2026.1.2

- 13) Prediction of Coseismic Landslides by Explainable Machine Learning Methods
Tulasi Ram Bhattarai, Netra Prakash Bhandary, Kalpana Pandit
In Proceedings of GeoMandu 2024 Volume 2 (Editors: Bhandary, N.P., Tiwari, B., Acharya, I.P., Subedi, M., Pathak, D.R., Sharma, K.). GeoMandu 2024. Lecture Notes in Civil Engineering, vol 657. Springer, Singapore 2, 49-74, 2026.1.2
- 14) Comparative Assessment of Quantitative Landslide Susceptibility Mapping Using Feature Selection Techniques
Buddhi Raj Joshi, Netra Prakash Bhandary, Indra Prasad Acharya, Niraj K.C.
ISPRS International Journal of Geo-Information 15(1) 1-27 2026.1.1
- 15) Assessing earthquake preparedness in a culturally diverse international students population: a case of Ehime university in Shikoku, Japan
Tatul Atalyan, Netra Prakash Bhandary
Journal of Disaster Science and Management 1, 23, 2025.12.1
- 16) Landslide Susceptibility Mapping Optimization for Improved Risk Assessment Using Multicollinearity Analysis and Machine Learning Technique
Buddhi Raj Joshi, Netra Prakash Bhandary, Indra Prasad Acharya, Niraj KC, Chakra Bhandari
Applied Sciences 15(22) 12152, 2025.11.16
- 17) Comparative assessment of antecedent rainfall threshold for roadside landslide prediction
S. Neupane, N.P. Bhandary
Proc. Geotech Asia; GeoVadis: The Future of Geotechnical Engineering – Juneja, Joseph & Dasaka (Eds) eBook ISBN: 9781003645931 2 443-448 2025.9.16
- 18) A comparative study of ANN models for the prediction of soil compaction parameters
H. Paneru, N.P. Bhandary
Proc. Geotech Asia; GeoVadis: The Future of Geotechnical Engineering – Juneja, Joseph & Dasaka (Eds) eBook ISBN: 9781003645917 1 69-74 2025.9.16
- 19) A comparative study on machine learning models to predict landslide susceptibility
T.R. Bhattarai, N.P. Bhandary
Proc. Geotech Asia; GeoVadis: The Future of Geotechnical Engineering – Juneja, Joseph & Dasaka (Eds) eBook ISBN: 9781003645931 2 425-430, 2025.9.16
- 20) Machine Learning Ensemble Methods for Co-Seismic Landslide Susceptibility: Insights from the 2015 Nepal Earthquake
Tulasi Ram Bhattarai, Netra Prakash Bhandary
Applied Sciences 15(15) 8477 2025.7.30
- 21) Comparative Analysis and Performance Evaluation of SSC, n-SAC, and Creep-SCLAY1S Soil Creep Models in Predicting Soil Settlement
Tulasi Ram Bhattarai, Netra Prakash Bhandary, Gustav Grimstad
Geotechnics 5(3) 47-47 2025.7.9
- 22) Integration of Landslide Susceptibility and Road Infrastructure Vulnerability for Risk Assessment and Mountain Road Resilience Enhancement
Keshab Kumar Sharma, Netra Prakash Bhandary, Mandip Subedi, K. C. Rajan
Indian Geotechnical Journal, 1-17, Apr 9, 2025
- 23) Geotechnical Characterization of Lacustrine Material of Kathmandu Valley, Nepal
Mandip Subedi, Keshab Sharma, K. C. Rajan, Indra Prasad Acharya, Netra Prakash Bhandary
Indian Geotechnical Journal, Feb 3, 2025
- 24) Perception versus Preparedness: Unveiling the Gap and Its Significance for Landslide Risk Management in Nepal
Mandip Shrestha, Prakrit Noppradit, Rosy Pradhan Shrestha, Netra Prakash Bhandary
Natural Hazards Review, 26(1), Feb, 2025
- 25) Three-Dimensional Spectral Element Method Implementation for Evaluating Rooted Soil

- Behavior in Slope Stability Analysis
Ram Chandra Tiwari, Netra Prakash Bhandary
Geotechnics, 4(3) 893-917, Sep 8, 2024
- 26) Unraveling the Nexus between Road Transport Infrastructures and Economic Growth: Empirical Insights from Nepal's Case
Keshab Kumar Sharma, Netra Prakash Bhandary, Mandip Subedi, Rojee Pradhananga
Economies, 12(8) 221-221, Aug 22, 2024
- 27) Development of a framework for the prediction of slope stability using machine learning paradigms
K. C. Rajan, Milan Aryal, Keshab Sharma, Netra Prakash Bhandary, Richa Pokhrel, Indra Prasad Acharya
Natural Hazards, Jul 25, 2024
- 28) Landslide Susceptibility Assessment by Machine Learning and Frequency Ratio Methods Using XRAIN Radar-Acquired Rainfall Data
Dos Santos Rodrigues Neto José Maria, Netra Prakash Bhandary
Geosciences, 14(6) 171-171, Jun 18, 2024
- 29) An Analytical Study on the Damage to School Buildings by the 2015 Nepal Earthquake and Damage Level-Based Reconstruction Experience
Youb Raj Paudyal, Netra Prakash Bhandary
Buildings, 14(2) 1-17, Feb 6, 2024
- 30) Extremism, knowledge, and overconfidence in the covid-19 restriction times
Tsuyoshi Hatori, Netra Prakash Bhandary
Frontiers in Psychology, 15, Feb 1, 2024
- 31) Stochastic Finite Element Analysis of Root-Reinforcement Effects in Long and Steep Slopes
Ram Chandra Tiwari, Netra Prakash Bhandary
Geotechnics, Aug 23, 2023
- 32) Influence of Localized Rainfall Patterns on Landslide Occurrence—A Case Study of Southern Hiroshima with eXtended Radar Information Network Data during the July 2018 Heavy Rain Disasters
José Maria dos Santos Rodrigues Neto, Netra Prakash Bhandary
Geosciences, Aug 14, 2023
- 33) An Analytical Study on Soil Water Index (SWI), Landslide Prediction and Other Related Factors Using XRAIN Data during the July 2018 Heavy Rain Disasters in Hiroshima, Japan
José Maria dos Santos Rodrigues Neto, Netra Prakash Bhandary, Yuichi Fujita
Geotechnics, Jul 21, 2023
- 34) Posttraumatic stress disorder and its predictors in Kathmandu Valley residents after the 2015 Nepal Earthquake
Tsuyoshi Hatori, Netra Prakash Bhandary
International Journal of Disaster Risk Reduction, Dec, 2021
- 35) Safety Factor Plan Based on Predicted Progressive Failure Surface Under Elasto-Plastic 2D-FEM: A case study of Nuta-Yone Landslide Clusters, Shikoku, Japan
Indra L. Subedi, Ram C. Tiwari, Netra P. Bhandary
Nepal Journal of Civil Engineering, 2(1) 27-36, Nov, 2021
- 36) 3D SEM-based seismic ground response analysis of Kathmandu Valley in 2015 Gorkha Nepal earthquake
R. C. Tiwari, N. P. Bhandary
Journal of Seismology, 25(5) 1321-1338, Oct, 2021
- 37) Resonance effect on shaking of tall buildings in Kathmandu Valley during the 2015 Gorkha earthquake in Nepal
Netra Prakash Bhandary, Youb Raj Paudyal, Mitsu Okamura

- Environmental Earth Sciences* 80 (459), 2021年6月
- 38) Rigorous Analysis of Stress-Dependent Landslide Movements with Groundwater Fluctuations Applicable to Disaster Prevention in Monsoon Asia
Deepak Raj Bhat, Soichiro Osawa, Akihiko Wakai, Katsuo Sasahara, Netra P. Bhandary, Fei Cai, Hirotaka Ochiai, Norihiro Tanaka
Journal of Disaster Research 16(4) 658 - 673 2021年6月1日
- 39) Evaluation of groundwater vulnerability to nitrate in shallow aquifer using multi-layer fuzzy inference system within GIS environment
Dhundi Raj Pathak, Netra Prakash Bhandary
Groundwater for Sustainable Development 11 100470 - 100470 2020年10月
- 40) A study on shaking of tall buildings in Kathmandu Valley during the 2015 Nepal Earthquake
N. P. Bhandary, M. Okamura, Y.R. Paudyal
Proceedings of the 16th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering, 14-18 Oct. 2019, Taiwan (ATC3-002) 2019年10月
- 41) GIS based Landslide Susceptibility Mapping using Artificial Neural Network (ANN) Model in South Sulawesi Province, Indonesia
Abdul Rachman Rasyid, Netra P. Bhandary, Ryuichi Yatabe and Ihsan
International Journal of Earth Sciences and Engineering, 11 (02), 107-111, 2018年4月, DOI:10.21276/ijee.2018.11.0201
- 42) SEM-Based Seismic Slope Stability and Mitigation Model for the Jure Landslide after the 7.8Mw 2015 Barpak-Gorkha, Nepal, Earthquake
N. P. Bhandary, R. C. Tiwari, R. Yatabe, S. Paudel
Geotechnical Special Publication 2018-(293) 88 - 97 2018年
- 43) 防災 GIS : 四国の地すべりデータベースの構築とハザードマップの試み
バンダリ ネットラ プラカシ・山岸宏光・矢田部龍一
「防災・環境のためのGIS」 山岸 宏光編集(担当:分担執筆, 範囲:【第I部】、古今書院 2018年8月 (ISBN: 9784772271479)
- 44) Landslide inventory: Challenge for landslide hazard assessment in Indonesia
Ngadisih, Guruh Samodra, Netra Prakash Bhandary, Ryuichi Yatabe
GIS Landslide 135 – 159 (Eds: Yamagishi Hiromitsu, Bhandary, Netra P.), 2017.5.16
- 45) Large-scale landslide inventory mapping in lesser Himalaya of Nepal using geographic information system
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