

CONTENTS

Introduction.....	1
ABDELKADER, A., GRECU, F., BOUREZG, S., HADJAB, M., REDJEM, A., VIŞAN, G., DOBRE, R., VIŞAN, M.: Natural hazards in Bou-Saada urban area, Algeria.....	2
ALCÁNTARA-AYALA, I.: Landslides and extreme events in the mountain regions of Mexico: Climate or human-induced changes?.....	3
ANGHEL, T.: Ecological and aesthetical rehabilitation of the anthropic relief caused by opencast mining activities in the Motru coal basin (Romania). Application on the Valea Mănăstirii spoil heap.....	4
ARGHIUŞ, V., OZUNU, A., ARGHIUŞ, C., ŞTEFĂNESCU, L.: Damages associated to 1995-2006 floods and flash-food in the mountain catchment area of the Arieş and Someşul Mic rivers.....	5
AUCELLI, P. P. C., BĂLTEANU, D., DI PAOLA, G., ROSSKOPF, C. M.: Landslide processes in mountain regions and their role in the landscape evolution: case study: Molise region.....	6
AUDEMARD, F., BECK, C., CARRILLO, E.: Very large slope instabilities in deposits of the last glaciation, triggered by the Boconó fault, in the Mérida Andes highlands, Western Venezuela.....	7
BALÁZSI, K.: Geomorphic processes induced by anthropic activities in surface coal-mining areas. Case study - Baraolt basin (Romania).....	8
BĂLTEANU, D., CHENDEŞ, V., SIMA, M., ENCIU, P.: A country level spatial assessment of landslides in Romania.....	9
BILAŞCO, Ş.: A GIS model of discharge accumulation to prevent hydrologic risks. Case-study: the Someşul Mic upper basin.....	10
BILLI, P., PRECISO, E.: Step-pool sequences of steep mountain streams. A review of their characteristics and origin.....	11
BLAGA, L., ILIEŞ, D., JOSAN, N.: The Betfia landslides (Bihor county, Romania).....	12
BOENGIU, S., LICURICI, M., IONUŞ, O.: Natural and man-induced hazards along the Danube, between Rast and Gighera settlements.....	13
BOYNAGRYAN, V.R.: Landslides in Armenia.....	14
BRÂNDUŞ, C., CRISTEA I.: Some correlations between the microrelief of floodplains and the granulometry of alluvial deposits.....	15
BUGYA, T., KOVÁCS, I. P.: Utilization of geoinformation methods in the morphometric analysis. Case study: Somló territory.....	16
CHANG, K.-J., CHAN Y.-C., CHEN, R.-F., HSIEH, Y.-C.: Restoration and evolution of large-scale paleo-landslides in the Chinshan volcanic area, Northern Taiwan	17
CHEN R.-F., CHANG, K.-J., CHAN, Y.-C., LEE, H. Y., ANGELIER, J.: Monitoring surface changes induced by landslide events based on sediment transport and DEM analysis.....	18

CONSTANTIN, M., VLAICU, M., JURCHESCU, M. C.: The use of extensometers in displacement measurements and time prediction of landslides. Case study: Sibiciu basin (Buzău Carpathians), Romania.....	19
COSTAN, C., OZUNU, A., MIHĂIESCU, R., GUȚUȚUI, A., PETRESCU, I.: Technologic risks vulnerability reduction, in the Arieș river basin.....	20
COSTEA, M.: Susceptibility of slopes to landslides case study: Secașul Mare basin (Southern Carpathians).....	21
COŞKUN, M.: The effects of natural conditions on mass movements in the Filyos river basin (Karabük-Black Sea).....	22
DOBRE, R., GRECU, F.: Integrated relief analysis for the design of transport infrastructure. Case study: Prahova Valley.....	23
DRAGOTĂ, C. S., MICU, D.: Spatial-temporal variability of precipitation quantities in mining areas (Maramureș and Satu Mare counties).....	25
DULGHERU, M., CHIABURU, M.: Dynamics of the Dipsa river bed (Transylvanian Plain) under influenced anthropic influences.....	26
ESER ÜNALDI, Ü., COŞKUN, M., OBAN, R.: Assessment of river basin floods: a case-study in the eastern part of the Black Sea region.....	27
FAIVRE, S., BOGNAR, A., BOČIĆ, N., KOVAČIĆ, M.: Pleistocene glaciation traces in the north and central part of the Velebit mountain outer Dinarides, Croatia.....	28
FORT, M., COSSART, E., ARNAUD-FASSETTA, G.: Landslides, floods and threats to future engineering structures and settlements in a developing country: the Kali Gandaki valley case study, Nepal Himalayas.....	29
FOUACHE, E., FOUACHE, C., SYREN, C.: Sickness country (Kakadu Park, Australia): from reality to myth?.....	30
FUBELLI, G., PUGLISI, C., DRAMIS, F., LEONI, G.: A complex structure-controlled landslide system: the case of the Scorpiano slope (Rossano, Northern Calabria, Italy).....	31
GARCIA, C. M., CARRIJO, B. R.: Geomorphology of Parana - a field study.....	32
GRANDJEAN, G., CERDAN, O., RICHARD, G., VAN WESEMAEL, B., LAMBOT, S., CARRÉ, F., MAFTEI, R., HERMANN, T., THORNELOF, T., CHIARANTINI, L., MORETTI, S.: DIGISOIL - An integrated system of data collection technologies for mapping soil properties.....	33
GRECU, F., COMĂNESCU, L.: Landslides hazards in the Hârtibaciu Tableland (Transylvanian Depression).....	35
GREŠKOVÁ, A., LEHOTSKÝ, M.: Coupling mechanisms of mountainous fluvial system and its geomorphic response to windblown forest - Case-study: The Studený Potok torrent (Tatra Mts., Slovakia)	36
GROZAVU, A., PLEŞCAN, S. : Intégration des indicateurs environnementaux, économiques, sociaux et démographiques dans un modèle d'évaluation de la vulnérabilité.....	37

GUTIÉRREZ, F., LUCHA, P., GALVE, J. P., GÓMEZ, R.: Reconstructing the geochronological evolution of large landslides by the trenching technique in the Yesa Reservoir (Spanish Pyrenees).....	38
HACHEMI, K.: Apport de l'imagerie radar SAR (images d'amplitudes et de coherence) radars SAR pour l'analyse de terrain dans la région de Buzău (Roumanie).....	39
HACHEMI, K.: Apport de l'interférométrie radar SAR pour la réalisation d'un MNT (Model Numérique de Terrain) et la détection des faibles déformations sur la région subcarpatique de Buzău (Roumanie).....	41
HAGEN, K., ANDRECS, P.: From documentation to risk assessment. Experiences based on landslide analyses in the communities of Gasen and Haslau (Styria).....	42
HARTVICH, F.: Significance of flood sediments characteristics along a mountain stream.....	43
HOLUB, M., GASPERL, W., GRUBER, H., HUEBL, J., PUERSTINGER, C., SCHIFFER, M.: 2 million. m ³ in motion – the land slide in Austria's torrent "Gschliefgraben" necessitates evacuation of a settlement – A case study.....	44
HRADECKÝ, J.: Influence of man-made barriers on gravel transport and formation of gravel accumulations and other geomorphic consequences (Western Carpathians, Czech Republic).....	45
HUTCHINSON, S. M., AKINYEMI, O., MINDRESCU, M., ROTHWELL, J. J.: Assessing the potential of lake sediment records of environmental change in the Romanian Carpathians. Preliminary data from the Rodna and Maramureş Mountains.....	46
IELENICZ, M., NISTOR, C.: Mass movements in Oltenia area affected by mining activities.....	47
ILIEŞ, D., RUS, I., JOSAN, N., BLAGA, L.: Landscape changes induced by mining exploitations on the western side of the Apuseni Mountains (Plopiş sector).....	48
ILINCA, V.: Debris flows in the Lotru valley: occurrence and characteristics.....	49
IONIŢĂ, I., MĂRGINEANU, R. M.: Assessment of recent sedimentation within the southern part of the Moldavian Plateau.....	50
JOSAN, N., ILIEŞ, D., BLAGA, L., BUCUR, L.: Landslides in Dealurile Vestice geomorphological landscape.....	51
KIRCHNER, K., KREJČÍ, O.: Geomorphological aspects of landslide hazards in the Outer Western Carpathians.....	52
KIRCHNER, K., PETERKOVÁ, L., NEHYBA, S., HUBATKA, F.: Geomorphic development of the middle part of the Svratka River Valley.....	53
KOHV, M., HANG, T., KALM, V.: Slope failure in glaciolacustrine clay: Sauga landslide, Western Estonia.....	54
KOMAC, B., ZORN, M.: Deterministic and probability modelling of landslide hazard on national scale – the example of Slovenia.....	55
LEHOTSKÝ, M., NOVOTNÝ, J., SZMAŃDA, J.: Flooding and geomorphic evolution of modern floodplain – case study of the Danube River downstream of the Devínska Brána gate.....	56

LÉTAL, A., HLADIŠ, L.: Development of gully erosion in the Bile Karpaty Mts. over the last 200 years	57
LÓCZY, D.: Flood hazard in Hungary.....	58
MAFTEI, R.-M., CRISTEA, P., RUSU, E., MANJ, V.: Geophysical tests on shallow landslides case study Telega (Romania).....	59
MAGRI, O., MANTOVANI, M., PASUTO, A., SOLDATI, M.: The use of multiple techniques in landslide research with reference to coastal lateral spreading in Malta.....	61
MAGRI, O., BENITO, A., PASUTO, A., SOLDATI, M.: A GIS-based approach to landslide mapping and digital elevation modelling for the north-west coastal region of Malta.....	62
MANCIA, A.: SUSTAINABILITY FOR SOIL AND WATER MANAGEMENT.....	63
MARA, S., VLAD, S. N.: Maps of landslide hazard zoning of the Romanian territory at administrative and regional level.....	64
MARIAN, M., VARGA, C., COZMUTA, L. M., COZMUTA, A. M.: Growth particularities of vegetal species in a heavy metal-bearing soil.....	65
MIGON, P., PÁNEK, T., HRADECKÝ, J., MALIK, I., OWCZAREK, P.: Complex landslide terrain in the middle Sudetes, SW Poland.....	66
MIHAI, B., REYNARD, E., WERREN, G., SĂVULESCU, I., ȘANDRIC, I., CHIȚU, Z.: Impacts of hiking trails on geomorphological processes in the Bucegi Mountains (Romania).....	67
MODOI, O.C., COSTIN, D., GUȚUȚUI, A., OZUNU, AL., PETRESCU, I.: The environmental impact of open pit mining exploitation in Baia Mare area.....	68
MUNTEANU, A. V., POP, O. G.: Complex analyses of avalanche path in Piatra Craiului National Park...	69
NIKOLOVA, M., NEDKOV, S., NIKOLOV, V.: Implementation of the "KINEROS" model for estimation of the flood prone territories in the Ravna river basin.....	70
NIKONOROVA, I.V., PETROV, N.F.: The landslides of Cheboksary Povolgye and problems of classification of landslide systems.....	71
NOUR, E., COZMUTA, L. M., VARGA, C., MARIAN, M.: Some considerations on protection against hazards.....	73
ONAC, B., SURDEANU, V.: Contemporary landslide predictability in the contact area of Trascău Mountains with the Transilvanian Basin. Study case: Măhăceni Tableland.....	74
OPREA, R., NEDELEA, A., ACHIM, F.: Cryo-nival modeling system. Case study: Bucegi Mountains (Prahova area) and Făgăraș Mountains (Argeș area).....	75
OSACI-COSTACHE, G., CLIUS, M.: Evaluation of land use changes and slope processes on a cartographic basis in Jiblea Depression (Romania).....	76
PANDI, G., IRIMUȘ, I.: Hydrological and geomorphological analysis of river bed dynamic. Case study of Someș River.....	77

PÁNEK, T., HRADECKÝ, J., SMOLKOVÁ, V., ŠILHÁN, K.: Long-term evolution of deep-seated slope failure in the Crimean Mountains (Ukraine): Estimation based on radiocarbon and U/TH-series datings	78
PARROT, J.-F., OCHOA-TEJEDA, V.: Active landslide traces in mountainous areas extracted by using high resolution satellite images and high resolution DEM	79
POP, O., POPA, I., SURDEANU, V.: Dendrogeomorphological analysis of human-induced debris-flows in the Călimani Mountains (România).....	80
PREFAC, Z., BRÂNDUȘ, C., POPESCU, M., CRACU, G. M.: Landslide susceptibility assessment. A Romanian case study - The Subcarpathian Basin of the Râmna River.....	81
RĄCZKOWSKA, Z.: Differentiation of the present-day periglacial relief in high mountains of Europe.....	82
RADECKI-PAWLIK, A., WYZGA, B., ZAWIEJSKA, J.: Characterizing the amount and hydraulic importance of channel incision: examples from the polish Carpathian Rivers.....	83
RĂDOANE, M., RĂDOANE, N., CRISTEA, I., GANCEVICI-OPREA, D.: Contemporary channel changes of the Prut River on the Romanian border.....	84
REYNARD, E.: The impact of geomorphology on mountain irrigation channels in Switzerland.....	85
REYNARD, E., THELER, D., LAMBIEL, C.: The contribution of geomorphological mapping to sediment transfer evaluation in small mountain catchments.....	86
RODRIGUEZ, M. L.: Unstable slopes: Assessment and zonation of slide-prone areas for management proposes.....	87
ROJŠEK, D.: The biggest recent landslide in Slovenia and conservation of nature	88
ROMAN, C., PITL, G., SENILA, M., INCZE, A.M., COSTIUG, S., ABRAHAM, B., LEVEL, E.: The influence of mining on surface water quality in the Tarna Mare Basin.....	89
ROMAN, C., PITL, G., SENILA, M., INCZE, A. M., LEVEL, E., COSTIUG, S., ABRAHAM, B.: Evaluation of water quality in the Tur Basin	90
SALOMON, J. N.: Inondations torrentielles en zones montagneuses du Golfe du Mexique.....	91
SANDU, M.: Present-day geomorphological processes and environmental change in the Sibiu-Apold Depressionary Passageway (SW Transylvanian Tableland).....	92
SĂNDULACHE, I.: Morphologic consequences of the massive precipitation fallen in the Bistricioara Basin (Eastern Carpathians) in the summer of 2005 and 2007.....	93
SHIMAZU, H.: Torrential flood and transport processes of huge debris in Japanese Mountain River Basins.....	94
SHIMAZU, H.: Floodplain dynamics and vegetation diversity in the mountain river valley of Japan Alps.....	95

ŠILHÁN, K., PÁNEK, T.: Geomorphological evidence of fossil debris flows in the Czech part of the flysch Carpathians.....	96
SIMONI, S.: The role of periglacial processes in the present morphodynamics of the Doamnei River Basin (Făgăraș Mountains).....	97
SMOLKOVÁ, V., PÁNEK, T., HRADECKÝ, J.: Slope deformations in the valley floor: A source of information on the Holocene relief development.....	98
STANKOVIANSKY, M.: Geomorphic effect and environmental impact of muddy floods.....	99
STARKEL, L.: Searching for regularities of slope modelling by extreme events (diversity of rainfall intensity – duration and physical properties of the substrate).....	100
STOCKER, E.: Geomorphic responses to landuse changes on steep slopes in timberline environment, Central Alps, Austria.....	101
STOICA, V.: Landslide impact on settlement development in the Sărățel drainage basin.....	102
STUPARIU, M., PĂTRU-STUPARIU, I., CUCULICI, R., NĂPĂRUȘ, M.: Landscape metrics for assessment of mountain landscape using GIS applications.....	103
SURDEANU, V., DULGHERU, M., POP, O., ANGHEL, T., TODICĂ, S.: Spatial and temporal activity of landslides using dendrogeomorphological methods in the Călimani mining area (România).....	104
ȘANDRIC, I., CHIȚU, Z., MIHAI, B., SĂVULESCU, I.: Mapping landslides using high resolution aerial images.....	105
TEDIM, F., CARVALHO, S., MARTINS, M.: The integration of flood risk management in land-use planning in Portugal.....	106
TÎRLĂ, L.: The landslides of Băile Olănești.....	107
TUDOSE, C., VIȘAN, M.: Estimation of slope stability in the Subcarpathians Curvature based on DEM.....	108
VAN, P.D., CARLING, A.P.: To develop a method to identify the roughness trends of a bifurcation river network.....	109
VAN DEN EECKHAUT, M., MOEYERSONS, J., NYSSSEN, J., ABRAHA, A., POESEN, J., HAILE, M. DECKERS, J.: Prediction of landslide locations in areas with limited data availability: A case-study in the Northern Ethiopian highlands.....	110
VAN DEN EECKHAUT, M., REICHENBACH, P., GUZZETTI, F., CARRARA, A., ROSSI, M., POESEN, J.: Landslide susceptibility zonation using multiple statistical models and different mapping units: A case-study in the Flemish Ardennes, Belgium.....	111
VARGA, C., MARIAN, M., MIHALY COZMUTA, L., MIHALY COZMUTA, A.: Bio-accumulation of heavy metals in tailings dam vegetal species.....	113
VARGHESE, F., KUMARA RAJA, M.: Innate and eco-friendly solution for land slides and soil attrition using coir geo-textiles.....	114

VOICULESCU, M., GERMAIN, D.: A dendrogeomorphic approach to snow avalanche hazard assessment and management in the Carpathian Mountains, România.....	117
ZORN, M.: Measurements of different erosion processes in a Coastal Submediterranean Catchment (SW Slovenia).....	118
ZORN, M., KOMAC, B.: Erosion response to land use changes in the last 200 years (Julian Alps, Slovenia).....	119
ZWOLIŃSKI, Z., TYLKOWSKI, J., DOMAŃSKA, M., KOSTRZEWSKI, A., STACH, A., SZPIKOWSKI, J.: Snowmelt flood and sediment flow in a steep lowland catchment: The Parsęta River, Poland.....	120