

1. Record Nr.	UNINA9910814625903321
Titolo	Advances in geosciences and the built environment [[electronic resource] /] / A.K. Haghi, editor
Pubbl/distr/stampa	Hauppauge, N.Y., : Nova Science Publishers, c2009
ISBN	1-61728-127-1
Edizione	[1st ed.]
Descrizione fisica	1 online resource (204 p.)
Altri autori (Persone)	HaghiA. K
Disciplina	720.28/8
Soggetti	Earth sciences Building Architecture - Environmental aspects
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Intro -- ADVANCES IN GEOSCIENCES AND THE BUILT ENVIRONMENT -- ADVANCES IN GEOSCIENCES AND THE BUILT ENVIRONMENT -- CONTENTS -- PREFACE -- Chapter 1 APPLICATION OF CLOSE-RANGE PHOTOGRAMMETR AND CAD SYSTEM TO MONUMENTS -- ABSTRACT -- 1. INTRODUCTION -- 2. THE RESEARCH OBJECTIVES AND METHODOLOGY -- 3. THE STUDY AREA -- 3.1 Some Materials and Equipment -- 4. DATA ACQUISITION AND PROCESSING -- 4.1. 3-D Coordinate System -- 4.2. Orthophoto Generation -- 4.3. Mosaicing -- 4.4. Autocad Environment -- 4.5. Data Format -- 4.6. Data Structure -- 5. SOME PRELIMINARY RESULTS -- 6. CONCLUSIONS -- REFERENCES -- Chapter 2 DEVELOPMENT OF AN AUTOMATED SYSTEM FOR THE MEASUREMENT OF NEAR BED TURBULENCE AND GRAIN MOTION -- ABSTRACT -- BACKGROUND -- EXPERIMENTAL WORK -- DEVELOPMENT OF EXPERIMENTAL APPARATUS -- IMAGE PROCESSING FLOW IMAGES -- IMAGE PROCESSING BED IMAGES -- EXPERIMENTAL TESTING -- PRELIMINARY RESULTS -- CONCLUSIONS -- REFERENCES -- Chapter 3 NEW TECHNOLOGY TO CONSERVE HISTORICAL BUILDINGS BY USING DIGITAL PHOTOGRAMMETRY -- ABSTRACT -- 1. INTRODUCTION -- 2. GENERAL AIMS AND OBJECTIVES -- 3. MATERIALS AND EQUIPMENT -- 4. DATA ACQUISITION AND PROCESSING -- 5. ORTHOPHOTO GENERATIONS -- 6. MOSAICING -- 7. AUTOCAD ENVIRONMENTS -- 8 INTEGRATION OF DIGITAL PHOTOGRAMMETRY GIS AND CAD -- 9.

CONCLUSION -- REFERENCES -- Chapter 4 THRESHOLD CONDITIONS FOR UNIFORM SEDIMENTS REVISITED -- ABSTRACT -- INTRODUCTION -- METHODOLOGY -- EXPERIMENTAL SETUP -- EXPERIMENTAL RESULTS -- ADDITIONAL DATA -- Neill's Experiments with Glass Balls -- Experimental Data of Aguirre-Pe and Picón -- Analytical Approximation -- CONCLUSIONS -- ACKNOWLEDGMENTS -- REFERENCES -- Chapter 5 EXPERIMENTAL VERSIONS OF 3-D TOPOLOGICAL STRUCTURES FOR PHOTOGRAMMETRICALLY DERIVED COORDINATES -- ABSTRACT -- 1. INTRODUCTION -- 2. THREE-DIMENSIONAL MODELLING IN A POPULAR GIS PACKAGE. 3. INTEGRATION OF GIS WITH DIGITAL PHOTOGRAMMETRY -- 4. A PROPOSED PHOTOGRAMMETRIC GIS FOR ARCHITECTURAL PURPOSES -- 4.1 Data Flow -- 4.2 Data Organisation -- 4.3 Coordinate Transformations -- 5. CONCLUSIONS -- REFERENCES -- Chapter 6 MODIFICATIONS IN NEAR BED FLOW OVER SEDIMENT BEDS AND THE IMPLICATIONS FOR GRAIN ENTRAINMENT -- ABSTRACT -- INTRODUCTION -- EXPERIMENTAL EQUIPMENT -- MEASUREMENTS OF THE FLOW FIELD -- MEASUREMENTS OF THE BED -- EXPERIMENTAL TESTING -- EXPERIMENTAL RESULTS -- DISCUSSION -- CONCLUSIONS -- ACKNOWLEDGMENTS -- REFERENCES -- Chapter 7 A NEW PROPOSED OF DIGITAL PHOTOGRAMMETRY TO BUILD UP MONUMENTS -- ABSTRACT -- 1. INTRODUCTION -- 2. THE PHOTOGRAMMETRIC SURVEY OF THE ANOBANINI PROJECT -- 2.1 Description -- 2.2 Data Acquisition -- 2.3 Data Input -- 2.4 Processing -- 2.5 Linking -- the Anobanini Project -- 2.6 Triangulated Irregular Network -- 2.7 Surface Modelling -- 2.8 Data Extraction -- 3. CONCLUSION -- REFERENCES -- Chapter 8 IMAGE ANALYSIS FOR THE MEASUREMENT OF NEAR BED TURBULENT FLOW AND RESULTANT GRAIN MOTION -- ABSTRACT -- 1. BACKGROUND -- 2. EXPERIMENTAL WORK -- 2.1 Development of Experimental Measurement System -- 2.2 Bed Image Processing and Analysis -- 2.3 Preliminary Experimental Tests -- 2.4 Results of Grain Movement -- 3. CONCLUSIONS -- 4. REFERENCES -- Chapter 9 PRODUCTION DATA INVOLVING DIGITAL TERRESTRIAL PHOTOGRAMMETRY FOR ANCIENT CONSTRUCTION -- ABSTRACT -- 1. INTRODUCTION -- 2. THE PHOTOGRAMMETRIC SURVEY -- 2.1. Data Acquisition -- 2.2. Data Input -- 2.3. Processing -- 2.4. Product Accuracy -- 2.5. Mathematical Considerations -- 2.6. CAD Layers -- 2.7. Visualisation -- 2.8. Linking of Hunter Memorial Project -- 2.9. Digital Facet Modelling -- 2.10. Rendering -- 6.11. Data Extraction -- 6.12. Products -- 3. CONCLUSIONS -- REFERENCES. Chapter 10 VELOCITY MEASUREMENTS IN DAM-BREAK FLOW USING IMAGING SYSTEM -- ABSTRACT -- INTRODUCTION -- EXPERIMENTAL METHOD -- IMAGE ANALYSIS SYSTEM -- PARTICLE TRACKING VELOCIMETRY -- PARTICLE STREAK VELOCIMETRY -- RESULTS -- COMPARISON OF ANALYTICAL AND EXPERIMENTAL RESULTS -- CONCLUSIONS -- AKNOWLEDGMENT -- REFERENCES -- Chapter 11 POST BUCKLING MODELLING AND OPTIMIZATION OF SANDWICH PANELS WITH CORRUGATED CORES -- ABSTRACT -- 1. INTRODUCTION -- 2. ANALYTICAL MODELING -- 2.1 Yielding Stress -- 2.2 BUCKLING LOAD -- 3. FINITE ELEMENT MODELING -- 4 GENETIC ALGORITHMS -- 5 SANDWICH PANEL OPTIMIZATION, USING GENETIC ALGORITHM -- 6. CONCLUSION -- REFERENCES -- Chapter 12 AN INVESTIGATION OF THE NEAR BED FLOW FIELD OVER THE MOBILE BED SURFACE -- ABSTRACT -- BACKGROUND -- EXPERIMENTAL WORK -- DEVELOPMENT OF EXPERIMENTAL APPARATUS -- EXPERIMENTAL TESTING AND PRELIMINARY RESULTS -- CONCLUSIONS -- REFERENCES -- Chapter 13 NEW ACHIEVEMENTS IN SOIL STABILIZATION -- ABSTRACT -- 1. INTRODUCTION -- 2. LABORATORY STUDIES -- 2.1. Soil Characteristics

-- 2.2. Cement and Waste Polymers Properties -- 3. SPECIMENS PREPARATION -- 4. EXPERIMENTAL TESTS -- 5. RESULTS AND DISCUSSIONS -- 5.1. The Effect of Adding Fibers on Compaction -- 5.2. The Effect of Adding Fibers on UCS -- 5.2.1. The Effect of Adding Fibers on Maximum UCS ( $Q_u$ ) -- 5.2.2. The Effect of Adding Fibers on Axial Stress Strain Behavior -- 5.2.3. The Effect of Fibers on Modulus of Elasticity -- 5.3. The Effect of Fibers on Indirect Tensile Strength -- 5.4. The Effect of Fibers on Flexure -- 5.4.1. The Effect of Fibers on Modulus of Rupture (MR) -- 5.4.2. The Effect of Fibers on Behavior Flexural Load-Deformation -- 5.4.3. The Effect of Fibers on Fracture Energy -- 5.5. The Effect of Fibers on Shear Strength -- 5.5.1. The Effect of Fibers on Dilation -- 5.6. Effect on Durability -- 6. CONCLUSION.

7. REFERENCES -- Chapter 14 PROBABILISTIC DESCRIPTION OF GRAIN RESISTANCE FROM SIMULTANEOUS FLOW FIELD AND GRAIN MOTION MEASUREMENTS -- ABSTRACT -- 1. INTRODUCTION -- 2. EXPERIMENTAL SET-UP -- 3. GRAIN DISPLACEMENTS -- 4. ANALYSIS OF NEAR-BED FLOW FIELD ASSOCIATED WITH GRAIN MOTION -- 5. A NEW EXPERIMENTAL APPROACH TO GRASS' THEORY -- 6. CONCLUSIONS -- ACKNOWLEDGMENTS -- REFERENCES -- INDEX -- Blank Page.

---