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Landmine Detection from GPR Data Using Convolutional ...

in GPR data In the literature many GPR signal and image processing techniques have been proposed for the automated detection of buried objects Generally, these methods first implement a data pre-processing step that performs task as data normalization, correction for variations in depth and speed,

GPR FOR FAST PAVEMENT ASSESSMENT - CTI

modeling and signal data processing 00-2, "GPR for Fast Pavement Assessment: Experimental Tests" The GPR equipment used in phase for future research on the application of GPR techniques for pavement and bridge assessment, the Principal Investigator (PI) of this project conducted a feasibility investigation on

Improved Three-dimensional Image Reconstruction Technique ...

Ground Penetrating Radar (GPR) is an electromagnetic high res-olution tool, that has been employed successfully to perform numerous environmental, engineering and archaeological investigations [1] Com-monly used imaging strategies for GPR data used in the literature are simi-lar to the (scalar) seismic processing algorithms A tutorial paper [2]

High-resolution Geophysics in Imaging and ...

etry) and wave-equation based (ie seismics and GPR), combined with dedicated data-processing and analysis techniques based on instantaneous attributes, to the study of different archaeological sites, namely: an area characterized by scattered remains of unknown shape and dimension, a prehistoric grave, buried walls and

Ashley Walk Ministry of Home Security Target New Forest ...

Four geophysical survey techniques were used on this site including gradiometer, earth resistance, Earth Resistivity Tomography (ERT) and Ground Penetrating Radar (GPR) and all four techniques fell within a 2ha area around the buried structure The four surveys revealed various elements of the bombing target with ERT and gradiometer data

United States Natural c/o USDA Forest Service Department ...

operators to new GPR technologies and to review field procedures and data processing techniques Summary: 1 Training was provided on the setup and operation of the TerraSIRch Subsurface Interface Radar (SIR) System-3000 (SIR-3000) This GPR unit was recently purchased by ...

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persons should be technologically neutral and should not depend on the techniques used The protection of natural persons should apply to the processing of personal data by automated means, as well as to manual processing, if the personal data are contained or ...

Design and analysis of new GPR antenna concepts

Design and analysis of new GPR antenna concepts RV de Jongh (1), important for interpretation and processing of GPR data (eg for migration) antenna measurement is a home-made H-field

GPR and sonic tomography for structural restoration

GPR and sonic tomography for structural restoration: the case of the cathedral of Tricarico View the table of contents for this issue, or go to the journal homepage for more Home Search

Development of Data Analysis Algorithms for ...

Development of Data Analysis Algorithms for Interpretation of Ground Penetrating Radar Data Samer Lahouar Abstract According to a 1999 Federal Highway Administration statistic, the US has around 82 million lane-miles of roadways that need to be maintained and rehabilitated periodically Therefore, in

Sensors Software Inc.

managing, editing, and viewing GPR data Optional modules include data processing and interpretation This analysis software provides tools to help users easily extract information from their GPR data Conquest Data in EKKO_Project Figure 2:Picking the tops of the rebar (+ signs) to extract information about depth and spacing Advanced analysis

Investigating Key Techniques to Leverage the Functionality ...

investigate the key techniques to tackle with GPR signal processing from three our first home together at UVM Apartment Family Housing with all our plush animal GPR Data Pre-Processing 91 43 Computational algorithms: 2-D Entropy and Short-Time Fourier

APPLYING MULTIMEDIA COMPRESSION TECHNIQUES TO ...

it took 3 hours to zip an 83Gb GPR data file and it only compressed the file to 60% of its original size Zip techniques appear to processing the entire file followed by encoding the entire file For efficiency we need to be able to compress/decompress scan by scan Figure 3: Amount of Oversampling on typical GPR data

Integrated Geophysical Study of Archaeological Sites in ...

niques: MIVIS, magnetic, GPR, ERT GPR and magnetic data frequently provide mutually consistent results, but in some cases they give complementary information Fig2 shows a comparison between GPR and magnetic data from site 6 (see Fig1): the yellow line superimposed on GPR data in

C r F s : b i

point data and differenced to calculate displacements over short time intervals In example one TLS is used with three-dimensional ground-penetrating radar (GPR) The GPR data volume is the basis for in situ characterization of a fluvial reservoir analog in the Ferron Sandstone of the east-central Utah Coyote basin (Szerbiak and others, 2001)

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ARTICLE 29 DATA PROTECTION WORKING PARTY

II Lead supervisory authority Put simply, a 'lead supervisory authority' is the authority with the primary responsibility for dealing with a cross-border data processing activity, for example when a data subject makes a complaint about the processing of his or her personal data

Success with Geophysics: Archaeology

Success with Geophysics: Archaeology Ground-penetrating Radar Processing and Interpretation Techniques for Archaeology method of data processing is very fast, and is usually the first type of processing that my students and I do after transferring reflection data to a computer Using this method every reflection amplitude in

DRAFT - Rock Hill, SC | Home

the site The investigation entailed the collection, processing, presentation, and interpretation of Electromagnetic (EM) and Ground Penetrating Radar (GPR) data The objectives of the geophysical investigation were to determine the location of buried objects, cables, pipes and the depth and dimension of underground storage tanks, vaults

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signal processing and real time algorithms utilizing candidate sensors including Ground Penetrating Radar (GPR), and metal detector position, for increased real-time feedback on threat detection