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visual introduction. **LA RAC Webinar Series 2: 5_Advanced Seismic Inversion Methods: Present and Future An Open Source Inversion Algorithm**

Abstract. The 1943 Munsell renotation includes a table that converts 2734 Munsell specifications into xyY coordinates, along with a graphical interpolation method and a graphical inversion method, that converts xyY coordinates back into Munsell specifications. This article presents open-source computer code, running in Matlab or Octave, that both interpolates and inverts the Munsell renotation automatically.

An open-source inversion algorithm for the Munsell ...

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Renotation table that converts 2734 Munsell specifications into xyY coordinates, along ...

An open-source inversion algorithm for the Munsell ...

An Open Source Inversion Algorithm This article presents open-source computer code, running in Matlab or Octave, that both interpolates and inverts the Munsell renotation automatically. The steps in both algorithms are described in detail. Like previous inversion algorithms, it relies on interpolations between entries in the 1943 table.

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Geophysical inversion (SimPEG) ¶. This application provides

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an interface to geophysical inversion using the SimPEG open-source algorithms. The application currently supports. Electromagnetic (time or frequency) data using a Laterally Constrained 1D approach. Gravity and magnetics (field and/or tensor) data using an octree mesh tiling approach.

Geophysical inversion (SimPEG) — geoapps 0.2.5 documentation

EMagPy is an open-source Python API and GUI for 1D EMI modeling/inversion. • Both Maxwell-based and cumulative sensitivity forward models are implemented. • Inversion algorithms include deterministic and probabilistic methods. • The cumulative sensitivity function of McNeill (1980) performs well in low EC environments. •

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EMagPy: Open-source standalone software for processing ...

Standard comparison sorting algorithms can be adapted to compute the inversion number in time $O(n \log n)$. Inversion related vectors. Three similar vectors are in use that condense the inversions of a permutation into a vector that uniquely determines it. They are often called inversion vector or Lehmer code. (A list of sources is found here.)

Inversion (discrete mathematics) - Wikipedia

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full wave inversion - Free Open Source Codes - CodeForge.com

Accompanied by a package called zplot for interactive plotting and picking of 2-D and 3-D wide-angle seismic data. "The software and methods here are the subject of academic research, not...

Open-Source Software - Seismic Wave Analysis Group (SWAG)

Inverse in $Z_p^e / (M(X))$, p a prime, $M(X)$ a suitable polynomial such as $X^N - 1$. a) Use the Inversion Algorithm to compute a polynomial $b(X) \in R[X]$ that gives an inverse of $a(X)$ in $(R/pR)[X]/(M(X))$. Return FALSE if the inverse does not exist. [The Inversion Algorithm may be applied here

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because R/pR is a field, and so $(R/pR)[X]$ is a Euclidean ring.]

Algorithm for computing the inverse of a polynomial ...

Open source GIS tools exist (e.g., QGIS, gdal), but they are typically limited to 2-D (or 2.5-D) structures and do not facilitate the modeling and representation of fault networks, complex structures like overturned folds or dome structures, or combined stratigraphic sequences.

GemPy 1.0: open-source stochastic geological modeling and ...

CalOptics is an open source fast and easy-to-use C++ library for CUDA-based GPU computing of basic functions used in computational optical imaging. It uses an array-based

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function set which makes programming with CUDA easier than programming raw CUDA code.

Open Source » Computational Imaging Lab

We present pyGIMLi (Python Library for Inversion and Modelling in Geophysics), an open-source framework that provides tools for modelling and inversion of various geophysical but also hydrological methods.

pyGIMLi: An open-source library for modelling and ...

Goal: We are developing an open-source library for modelling and inversion problems in applied geophysics. It is written in Python and has a core library (GIMLi) written in C++ holding base ...

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PYGIMLI - GEOPHYSICAL INVERSION AND MODELLING LIBRARY IN ...

An open-source MATLAB-based software, MASWaves (version 1.0, University of Iceland, Reykjavík, Iceland), has been developed for acquiring, processing, and inverting active-source MASW registrations (see also masw.hi.is). The previous implementation of the MASW analysis uses trial-and-error iteration during the inversion process, whilst an automated inversion procedure is preferred.

Geosciences | Free Full-Text | Open-Source MASW Inversion ...

incorporated in a revised version of the MASWaves software,

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Researcher has developed a set of open-source MATLAB-based tools for acquiring, processing, and analyzing MASW field data. The software can be downloaded, along with sample data and user guidelines, at masw.hi.is. The performance and applicability of the inversion algorithm is demonstrated using both synthetic

Open-Source MASW Inversion Tool Aimed at Shear Wave

...

The Universal Java Matrix Package (UJMP) is an open source Java library which provides sparse and dense matrix classes, as well as a large number of calculations for linear algebra such as matrix multiplication or matrix inverse.

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inverse matrix free download - SourceForge

As an alternative, we present a source-independent inversion algorithm that modifies Wiener filter calculations. A low-pass Wiener filter can be computed by using information from a reference trace rather than the true source wavelet.

Multi-source multi-scale source-independent full waveform ...

$p(d | m) = p(d_1 | m)p(d_2 | m)$, (4) where the joint data vector $d = [d_1; d_2]$?. Because of the likelihood function's insistence that only the data error determine a datum's weight in the inversion process, it is imperative that the data covariance matrix, C_d , be accurately estimated.

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Increasing evidence supports the claim that stress changes play a fundamental role in triggering volcanic eruptions. Stress changes may vary in origin to include earthquakes, erosion and landslide processes, deglaciation, or tidal effects. The local stress can also change as response of magma influx from deeper reservoirs and an increase of the magma/gas pressure. The stress transfer may be of great importance in reawakening a dormant system. As an example, significant statistical correlation of large earthquakes and eruptions in time and space was suggested in many works. The interaction may be two-fold; where magma intrusions may change the stress at active faults and

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trigger earthquakes, while tectonic earthquakes may affect the magmatic system and change the eruption activity. The change in local tectonic stress has been claimed as trigger of large ignimbrite eruptions or for controlling the eruptive style of explosive eruptions. Sometimes volcano systems that are nested or closely located may become active in chorus; neighbouring volcanoes may interact in the sense that one volcano triggers its neighbouring volcano. However, although there is ample evidence of concurrence, the processes of interacting volcanoes and near- to far-field tectonic stress are not well understood. Some studies suggest that volcanic eruptions are triggered if compressive stress acts at the magma system and “squeezes” out magma. Other studies suggest that extensional stress fields facilitate magma rise

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and thus encourage eruptions, or that fluctuating compression and extension during the passing of seismic waves trigger eruptions. This research topic tries to address some of the important open questions in interaction between stress field and volcanic eruption, though both review papers and new contributions.

This book combines essential finite element (FE) theory with a set of fourteen tutorials using relatively easy-to-use open source CAD, FE and other numerical analysis codes so a student can undertake practical analysis and self-study. The theory covers fundamentals of the finite element method. Formulation of element stiffness for one dimensional bar and beam, two dimensional and three dimensional continuum

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Elements, plate and shell elements are derived based on energy and variational methods. Linear, nonlinear and transient dynamic solution methods are covered for both mechanical and field analysis problems with a focus on heat transfer. Other important theoretical topics covered include element integration, element assembly, loads, boundary conditions, contact and a chapter devoted to material laws on elasticity, hyperelasticity and plasticity. A brief introduction to Computational Fluid Dynamics (CFD) is also included. The second half of this book presents a chapter on using tutorials containing information on code installation (on Windows) and getting started, and general hints on meshing, modelling and analysis. This is then followed by tutorials and exercises that cover linear, nonlinear and dynamic mechanical analysis,

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steady state and transient heat analysis, field analysis, fatigue, buckling and frequency analysis, a hydraulic pipe network analysis, and lastly two tutorials on CFD simulation. In each case theory is linked with application and exercises are included for further self-study. For these tutorials open source codes FreeCAD, CalculiX, FreeMAT and OpenFOAM are used. CalculiX is a comprehensive FE package covering linear, nonlinear and transient analysis. One particular benefit is that its format and structure is based on Abaqus, so knowledge gained is relevant to a leading commercial code. FreeCAD is primarily a powerful CAD modelling code, that includes good finite element meshing and modelling capabilities and is fully integrated with CalculiX. FreeMAT is used in three tutorials for numerical analysis demonstrating

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Algorithms for explicit finite element and CFD analysis. And OpenFOAM is used for other CFD flow simulations. The primary aim of this book is to provide a unified text covering theory and practice, so a student can learn and experiment with these versatile and powerful analysis methods. It should be of value to both finite element courses and for student self-study.

Microwave imaging techniques allow for the development of systems that are able to inspect, identify, and characterize in a noninvasive fashion under different scenarios, ranging from biomedical to subsurface diagnostics as well as from surveillance and security applications to nondestructive evaluation. Such great opportunities, though, are actually

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Severely limited by difficulties arising from the solution of the underlying inverse scattering problem. As a result, ongoing research efforts in this area are devoted to developing inversion strategies and experimental apparatus so that they are as reliable and accurate as possible with respect to reconstruction capabilities and resolution performance, respectively. The intent of this Special Issue is to present the experiences of leading scientists in the electromagnetic inverse scattering community, as well as to serve as an assessment tool for people who are new to the area of microwave imaging and electromagnetic inverse scattering problems.

This book constitutes revised and selected papers of the 9th

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European Workshop on Reinforcement Learning, EWRL 2011, which took place in Athens, Greece in September 2011. The papers presented were carefully reviewed and selected from 40 submissions. The papers are organized in topical sections online reinforcement learning, learning and exploring MDPs, function approximation methods for reinforcement learning, macro-actions in reinforcement learning, policy search and bounds, multi-task and transfer reinforcement learning, multi-agent reinforcement learning, apprenticeship and inverse reinforcement learning and real-world reinforcement learning.

Process Systems Engineering brings together the international community of researchers and engineers

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Interested in computing-based methods in process engineering. This conference highlights the contributions of the PSE community towards the sustainability of modern society and is based on the 13th International Symposium on Process Systems Engineering PSE 2018 event held San Diego, CA, July 1-5 2018. The book contains contributions from academia and industry, establishing the core products of PSE, defining the new and changing scope of our results, and future challenges. Plenary and keynote lectures discuss real-world challenges (globalization, energy, environment and health) and contribute to discussions on the widening scope of PSE versus the consolidation of the core topics of PSE. Highlights how the Process Systems Engineering community contributes to the sustainability of modern society Establishes

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the core products of Process Systems Engineering Defines the future challenges of Process Systems Engineering

This volume provides a broad and uniform introduction of PDE-constrained optimization as well as to document a number of interesting and challenging applications. Many science and engineering applications necessitate the solution of optimization problems constrained by physical laws that are described by systems of partial differential equations (PDEs)? As a result, PDE-constrained optimization problems arise in a variety of disciplines including geophysics, earth and climate science, material science, chemical and mechanical engineering, medical imaging and physics. This volume is divided into two parts. The first part provides a

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comprehensive treatment of PDE-constrained optimization including discussions of problems constrained by PDEs with uncertain inputs and problems constrained by variational inequalities. Special emphasis is placed on algorithm development and numerical computation. In addition, a comprehensive treatment of inverse problems arising in the oil and gas industry is provided. The second part of this volume focuses on the application of PDE-constrained optimization, including problems in optimal control, optimal design, and inverse problems, among other topics.

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Algorithms for Automating Open Source Intelligence (OSINT) presents information on the gathering of information and extraction of actionable intelligence from openly available sources, including news broadcasts, public repositories, and more recently, social media. As OSINT has applications in crime fighting, state-based intelligence, and social research, this book provides recent advances in text mining, web crawling, and other algorithms that have led to advances in methods that can largely automate this process. The book is beneficial to both practitioners and academic researchers, with discussions of the latest advances in applications, a coherent set of methods and processes for automating OSINT, and interdisciplinary perspectives on the key

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problems identified within each discipline. Drawing upon years of practical experience and using numerous examples, editors Robert Layton, Paul Watters, and a distinguished list of contributors discuss Evidence Accumulation Strategies for OSINT, Named Entity Resolution in Social Media, Analyzing Social Media Campaigns for Group Size Estimation, Surveys and qualitative techniques in OSINT, and Geospatial reasoning of open data. Presents a coherent set of methods and processes for automating OSINT Focuses on algorithms and applications allowing the practitioner to get up and running quickly Includes fully developed case studies on the digital underground and predicting crime through OSINT Discusses the ethical considerations when using publicly available online data

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Multifrequency Electromagnetic Data Interpretation for Subsurface Characterization focuses on the development and application of electromagnetic measurement methodologies and their interpretation techniques for subsurface characterization. The book guides readers on how to characterize and understand materials using electromagnetic measurements, including dielectric permittivity, resistivity and conductivity measurements. This reference will be useful for subsurface engineers, petrophysicists, subsurface data analysts, geophysicists, hydrogeologists, and geoscientists who want to know how to develop tools and techniques of electromagnetic measurements and interpretation for subsurface characterization. Includes case studies to add

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additional color to the presented content Provides codes for the mechanistic modeling of multi-frequency conductivity and relative permittivity of porous geomaterials Presents detailed descriptions of multifrequency electromagnetic data interpretation models and inversion algorithm

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