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## **Highly Nonlinear Solitary Waves In Heterogeneous Periodic ...**

Highly Nonlinear Solitary Waves In Heterogeneous Periodic Granular Media Mason A. Porter<sup>1</sup>, Chiara Daraio <sup>2,\*</sup>, Ivan Szelengowicz , Eric B. Herbold<sup>3</sup>, And P. G. Kevrekidis<sup>4</sup> <sup>1</sup>Oxford Centre For Industrial And Applied Mathematics, Mathematical Institute, University Of Oxford, OX1 3LB, United Kingdom Apr 2th, 2024

### **House Price Modeling Over Heterogeneous Regions With ...**

To House Price Modeling And Propose The Hierarchical Spatial Functional Model (HSFM), Which Decomposes House Values Into Land Desirability At Both The Global Scale And Hidden Local Scales As Well As The Feature Regression Component. We Propose Statistical Learning Algorithms Based On finite-element Spatial Functional Analysis And Spatial ... Jul 1th, 2024

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Ability Analysis In 3D Circuits Called ERNI-3D [2]. It Is A Reliability Computer Aided Design (RCAD) Tool That Is A Capable Of Comparison Of 2D And 3D Circuit Layouts. Similar To Study Of Alam Et Al., Shayan Et Al. Proposed A Framework To Analyze

The Reliability Of 3D Power Distribution Network Under Local Through Silicon Via Failures [17]. The ... Apr 3th, 2024

### **3D Advanced Integration Technology For Heterogeneous Systems**

Industrial Successes (Imagers, 2.5D Interposers, 3D Memory Cube, Etc.). CEA-LETI Has Been Developing For A Decade 3D Integration, And Have Pursued Research In Both Directions: Developing Advanced 3D Technology Bricks (TSVs,  $\mu$ -bumps, Hybrid Bonding, Etc), And Designing Advanced 3D Circuits As Pioneer Prototypes. Apr 1th, 2024

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Sequences For Research Designs In The Social Sciences. Because Individuals Differ From One Another And Differ In Their Responses To Treatments, Results Can Vary Widely Depending On Population Composition. The Large Methodological Literature On Causal Inference Recognizes The Importance Of And Consequently Allows For Population Het- Mar 1th, 2024

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Typically, Intermolecular Surface Forces Are Interpreted In Terms Of Basic Interactions Such As Van Der Waals, Electron Donor-acceptor (hydrogen Bonding), And Electrochemical In-teractions.<sup>1</sup> Most Experimental Data On The Thermodynamics At The Interfaces Come From Studies Of Surface Or Interfacial Tension May 2th, 2024

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Data. Notably, The Random Forest Regression Approach Excels By Achieving Similar Accuracy As The Other Methods, But With A Significantly Lower Computational Cost And With Fast And Robust Tuning Of Hyperparameters. Index Terms—unsupervised Change Detection, Multimodal Im-age Analysis, Heterogeneous Data, Image Regression, Affinity Ma- Jun 1th, 2024

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Approach To Structural And Materials Design Emily Ryan, Department Of Mechanical Engineering, Boston University, Boston, MA, USA Zoe A. Pollard, Department Of Biological And Environmental Engineering, Cornell University, Ithaca, NY, USA Quang-Thinh Ha, Department Of Mechanical Engineering, Boston

University, Boston, MA, USA Mar 2th, 2024

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Meteorites) Based On Isotopic Systems [2]. As The Evidence From The Similarity To C-type Asteroids And Abundant Organics And Hydrous Minerals, CCs Are Considered To Form In The Outer Region Of Solar System Compared To NCs. NCs Contain Enstatite Chondrites (EC), Ordinary Jul 1th, 2024

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IN SITU The Term In Situ Spectroscopy Is Well Established And Widely Used In The Catalysis Literature. First Part Etymology Etymologically, The Term In Situ Has No Temporal Discrimination. Advanced Techniques For Characterization Of Heterogeneous Catalysts. Mar 1th, 2024

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Ase Efficiency, Wind Turbine Heights Grow To Orders Of 100m Or More. The Surroundings Of Deployed Wind Turbines Are Seldom “ideal” In The Sense Of Surface Layer Theory, Which Makes Yield Projections Challenging With Conventional

Methods. The Scope Of This Thesis Is The Wind Profile Between 10m And 250m At A More Realistic Location. May 2th, 2024

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Resource Sharing In Heterogeneous Cloud Radio Access Networks Marcelo Antonio Marotta , Nicholas Kaminski Y, Ismael Gomez-Miguel , Lisandro Zambenedetti Granville , Juergen Rochol , Luiz DaSilva, Cristiano Bonato Bothz Federal University Of Rio Grande Do Sul, Brazil,yUniversity Of Dublin, Trinity College, Ireland, ZFederal University Of Health Sciences Of Porto Alegre, Brazil Jul 2th, 2024

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The Popularity Asset Pricing Model (PAPM) Has Similar Assumptions To The Capital Asset Pricing Model (CAPM), But Different Conclusions . In The CAPM, The Expected Excess Return Of Each Security Is Proportional To A Single Market Systematic Risk (beta), While In The PAPM, The Jun 1th, 2024

## **HETEROGENEOUS ROBOT SWARM HARDWARE DESIGN AND IMPLEMENTATION**

HETEROGENEOUS ROBOT SWARM - HARDWARE DESIGN AND IMPLEMENTATION  
ABSTRACT Swarm Robotics Is One The Most Fascinating, New Research Areas In The Field Of Robotics, And One Of It's Grand Challenge Is The Design Of Swarm Robots That Are Both Heterogeneous And Self-sufficient. This Can Be Crucial For Robots Exposed To Environments Jun 3th, 2024

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Parallelization Has Thus Far Not Been Successful At Extracting Scalable Parallelism From General Programs [6]. The Other Option, Manual Parallelization, Involves Time Consuming Hand Optimizations Performed For A Specific Number Of Cores And For A Specific Platform. Intent-based Compilation (IBC) Is A Meet-in-the-middle Strategy. Jun 3th, 2024

### **Software Compilation Techniques For Heterogeneous Embedded ...**

Software Compilation Techniques For Heterogeneous Embedded Multi-Core Systems 5 Fig. 1: Coarse View Of A Single-core Compiler Fig. 2: Coarse View Of A MPSoC



Compiler A Single-core Compiler Is Typically Divided Into Three Phases: The Front End, The Middle End And The Back End. The Front End Checks For The Lexical, Syntactic And Jul 2th, 2024

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An Interpretable Description Of Heterogeneity, And Causal Forests Can Be Used To Obtain Individual-specific Estimates Of Treatment Effects. Heterogeneous Effects Are Described By Conditional Average Treatment Effect (cate) Estimates, Which Are The Expected Effects Of A Treatment For Individuals In Subpopulations Defined By Covariates. Jun 1th, 2024

### **A Multiscale Hybrid Model Exploiting Heterogeneous ...**

ables. The Framework Is Formulated Based On A Hybrid Probabilistic Graphical Model. It Allows Using Both Directed Links And Undirected Links To Capture Various Types Of Relationships. Based On This Framework, We Develop A Multi-scale Hybrid Model For Image Segmentation. The Multiscale Model Systematically Captures The Spatial Relationships And May 1th, 2024

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Phase Transfer Catalysis Systems 1647 3.4.1. Conventional Phase Transfer Catalysis (PTC) 1648 3.4.2. Fluorous Biphasic Systems (FBS) 1652 3.5. Other Heterogeneous Systems 1653 ... Chiral Epoxides Are Very Important Building Blocks For The Synthesis Of Enantiomerically Pure Complex Molecules, In Particular, Of Biologically Active Com- ... Apr 2th, 2024

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Biphasic Catalysis Is Asymmetric Phase - Transfer Catalysis ( PTC ), Where A Non-racemic Chiral Additive Is Applied To Increase The Mobility Of A Given Catalyst Or Reactant Into A Favored Phase And Furthermore Control The Stereochemical Outcome. Although, In General, Catalyst Recycling Is Somewhat Difficult In PTC Systems, It Jul 2th, 2024

### **OPTIMIZING BIG DATA ANALYTICS ON HETEROGENEOUS PROCESSORS**

3 Reduce Reduce V 1 V 2 V 3 Barrier Map Map V Map V 1 V 2 V 3 Reduce Reduce V 1 V 2 3 Map Map Reduce Map V 1 V 2 V 3 V 1 V 2 Reduce V 3 V 1 V 2 Reduce 3 Reduce Reduce V 1 V 2 V 3 V 1 V 2 Reduce 3 SPLIT: Enough Work For One GPU NO

MEMORY LIMIT CPU+GPU Execution CPU+GPU Execution On Each Node Final  
Reduction In Cluster Aggregate Nodes Results Network Apr 3th, 2024

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