

Data augmentation approaches for improving animal audio classification

Very sharp diffraction peak in nonglass-forming liquid with the formation of distorted tetraclusters

PRBS-based loop gain identification and output impedance shaping in DC microgrid power converters

Vehicle Attribute Recognition by Appearance
Computer Vision Methods for Vehicle Type, Make and Model Classification

Hysteresis and eddy-current losses in electrical steel utilising edge degradation due to cutting effects

Automatic word count estimation from daylong child-centered recordings in various language environments using language-independent syllabification of speech

Pneumatic unidirectional cell stretching device for mechanobiological studies of cardiomyocytes

Reduced level of docosahexaenoic acid shifts GPCR neuroreceptors to less ordered membrane regions

ALMARVI System Solution for Image and Video Processing in Healthcare, Surveillance and Mobile Applications

Cuts for 3-D magnetic scalar potentials
Visualizing unintuitive surfaces arising from trivial knots

Digital Predistortion for 5G Small Cell
GPU Implementation and RF Measurements

Continuum approach to high-cycle fatigue. The finite life-time case with stochastic stress history

Model for evaluating additive manufacturing feasibility in end-use production

Active scanner control on paper machines

Enhanced multiaxial fatigue criterion that considers stress gradient effects

Toward Efficient Execution of RVC-CAL Dataflow Programs on Multicore Platforms

Assessment of mutation probabilities of KRAS G12 missense mutants and their long-timescale dynamics by atomistic molecular simulations and Markov state modeling

Analysis of the damping characteristics of two power electronics-based devices using 'individual channel analysis and design'

Properties of graph distance measures by means of discrete inequalities

Analysis of common rail pressure signal of dual-fuel large industrial engine for identification of injection duration of pilot diesel injectors

Effect of paint baking treatment on the properties of press hardened boron steels

Model-Based Dynamic Scheduling for Multicore Signal Processing

Concerted regulation of npc2 binding to endosomal/lysosomal membranes by bis(monoacylglycero)phosphate and sphingomyelin

Atomistic fingerprint of hyaluronan-CD44 binding

The Fisher-Snedecor F Distribution
A Simple and Accurate Composite Fading Model

Power Mitigation by Performance Equalization in a Heterogeneous Reconfigurable Multicore Architecture

Data Flow Algorithms for Processors with Vector Extensions
Handling Actors With Internal State

Parallel Digital Predistortion Design on Mobile GPU and Embedded Multicore CPU for Mobile Transmitters

Implementation of a Multirate Resampler for Multi-carrier Systems on GPUs

On the effect of deformation twinning and microstructure to strain hardening of high manganese austenitic steel 3D microstructure aggregates at large strains

Design Flow for GPU and Multicore Execution of Dynamic Dataflow Programs

A Hybrid Task Graph Scheduler for High Performance Image Processing Workflows

Development of an England-wide indoor overheating and air pollution model using artificial neural networks

Search reliability and search efficiency of combined Lévy-Brownian motion
Long relocations mingled with thorough local exploration

Optimization of Flexible Filter Banks Based on Fast Convolution

Influence of specimen type and reinforcement on measured tension-tension fatigue life of unidirectional GFRP laminates

A prospect for computing in porous materials research
Very large fluid flow simulations

IEEE 802.11ac MIMO Transceiver Baseband Processing on a VLIW Processor

Instrumentation-Driven Validation of Dataflow Applications

Comb Model with Slow and Ultraslow Diffusion

Target tracking via combination of particle filter and optimisation techniques

Hermitian one-particle density matrix through a semiclassical gradient expansion

Quantifying the non-ergodicity of scaled Brownian motion

Influence of relative humidity and physical load during storage on dustiness of inorganic nanomaterials
implications for testing and risk assessment

Ageing first passage time density in continuous time random walks and quenched energy landscapes

Urothelial cancer gene regulatory networks inferred from large-scale RNAseq, Bead and Oligo gene expression data

Workplace performance of a loose-fitting powered air purifying respirator during nanoparticle synthesis

Conformational properties of complex polymers
Rosette versus star-like structures

Iterative and Participative Axiomatic Design Process in complex mechanical assemblies
case study on fusion engineering

Distant speech separation using predicted time-frequency masks from spatial features

Adaptive autoregressive model for reduction of noise in SPECT

Preoperative simulation for the planning of microsurgical clipping of intracranial aneurysms

Towards generic embedded multiprocessing for RVC-CAL dataflow programs

Spectral modeling of time series with missing data

Using building simulation to model the drying of flooded building archetypes

Integration of dataflow-based heterogeneous multiprocessor scheduling techniques in GNU radio

Automatic hierarchical discovery of quasi-static schedules of RVC-CAL dataflow programs

Parameterized scheduling of topological patterns in signal processing dataflow graphs

Harnessing the complexity of gene expression data from cancer
From single gene to structural pathway methods

Implementation of a direct procedure for critical point computations using preconditioned iterative solvers

Entropy analysis of word-length series of natural language texts
Effects of text language and genre

Organizational structure and the periphery of the gene regulatory network in B-cell lymphoma.

A comparison between joint regression analysis and the AMMI model
A case study with barley

A hybrid optimization grey model based on segmented gra and multi-strategy contest for short-term power load forecasting

Mapping parameterized cyclo-static dataflow graphs onto configurable hardware

Structural influence of gene networks on their inference
Analysis of C3NET

Pathway analysis of expression data
Deciphering functional building blocks of complex diseases

Networks for systems biology
Conceptual connection of data and function

Overview of the MPEG reconfigurable video coding framework

Quasi-static scheduling of CAL actor networks for reconfigurable video coding

Exploiting statically schedulable regions in dataflow programs

Topological patterns for scalable representation and analysis of dataflow graphs

Inferring the conservative causal core of gene regulatory networks

Local network-based measures to assess the inferability of different regulatory networks

Hierarchical coordination of periodic genes in the cell cycle of *Saccharomyces cerevisiae*

Information processing in the transcriptional regulatory network of yeast
Functional robustness

Algorithmic computation of knot polynomials of secondary structure elements of proteins

Possible structures of nonstoichiometric tin oxide
The composition Sn₂O₃

Acoustic Modelling

Two models for hydraulic cylinders in flexible multibody simulations

Improved Session Continuity in 5G NR with Joint Use of Multi-Connectivity and Guard Bandwidth

Energy Detection-Based Spectrum Sensing over Fisher-Snedecor F Fading Channels

Data Vault Mappings to Dimensional Model Using Schema Matching

Action and power efficiency in self-organization
The case for growth efficiency as a cellular objective in escherichia coli

Client-Side Cornucopia
Comparing the Built-In Application Architecture Models in the Web Browser

Color Constancy Convolutional Autoencoder

On Confidences and Their Use in (Semi-)Automatic Multi-Image Taxa Identification

Structural Similarity Index with Predictability of Image Blocks

Constrained Long-Horizon Direct Model Predictive Control for Synchronous Reluctance Motor Drives

Prioritizing corrective maintenance activities for android applications
An industrial case study on android crash reports

Knowledge-based artificial neural network (KB-ANN) in engineering
Associating functional architecture modeling, dimensional analysis and causal graphs to produce optimized topologies for KB-ANNs

Bringing stimulated ideation in a web environment
Students' evaluations of a basic software release

Business Model Innovation of Startups Developing Multisided Digital Platforms

Independent Loops Search in Flow Networks Aiming for Well-Conditioned System of Equations

Eeny, Meeny, Miny, Mo...
A multiple case study on selecting a technique for user-interaction data collecting

Time-dependent SIR modeling for D2D communications in indoor deployments

Technostress and social networking services
Uncovering strains and their underlying stressors

Sir distribution in D2D environment with non-stationary mobility of users

Dimension reduction and decomposition using causal graph and qualitative analysis for aircraft concept design optimization

Comparing requirements decomposition within the Scrum, Scrum with Kanban, XP, and Banana development processes

Simulation studies of DFB laser longitudinal structures for narrow linewidth emission

Transverse structure optimization of laterally-coupled ridge waveguide DFB lasers

Simulation of photon-photon resonance enhanced direct modulation bandwidth of DFB lasers

On prediction of DCT-based denoising efficiency under spatially correlated noise conditions

Lean manufacturing methods in simulation literature
Review and association analysis

Minimum viable user experience
A framework for supporting product design in startups

To network or not to network? Analysis of the Finnish software industry-A networking approach

Ecosystems Here, There, and Everywhere — A Barometrical Analysis of the Roots of 'Software Ecosystem'

Sir analysis in square-shaped indoor premises

Software vulnerability life cycles and the age of software products
An empirical assertion with operating system products

An image generator platform to improve cell tracking algorithms simulation of objects of various morphologies, kinetics and clustering

Towards a lean approach to reduce code smells injection
An empirical study

Reconfigurable computing for future vision-capable devices

Computationally efficient optimization algorithms for model predictive control of linear systems with integer inputs

Software evolution and time series volatility
An empirical exploration

Employing a multi-Objective robust optimisation method for healthy and low-energy dwelling design in Delhi, India

Wealthy, healthy and/or happy —what does 'ecosystem health' stand for?

UX work in startups
Current practices and future needs

Lean software startup – an experience report from an entrepreneurial software business course

The assessment of constructability
BIM cases

Passive condition pre-enforcement for rights exporting

Functional size measures and effort estimation in agile development
A replicated study

Graph based representation and analyses for conceptual stages

An origami inspired reconfigurable spiral antenna

Theory driven design and real proto typing of biomass pyrolytic stove

Towards an approach for evaluating the quality of requirements

PiMM

Parameterized and interfaced dataflow meta-model for MPSoCs runtime reconfiguration

Performance evaluation of a flow control algorithm for network-on-chip

Towards usability heuristics for games utilizing speech recognition

Revenue models of application developers in android market ecosystem

Characterizing trustworthy digital rights exporting

Timely report production from WWW data sources

The development of constructability using BIM as an intensifying technology

Reconfigurable miniature sensor nodes for condition monitoring

Using the entity-attribute-value model for olap cube construction

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How to improve the quality of the web portal of open source software products

A framework for building behavioral models for design-stage failure identification using dimensional analysis

Applying SCRUM in an OSS development process
An empirical evaluation

Measurement theory and dimensional analysis
Methodological impact on the comparison and evaluation process

Guest Editorial

Implementation Issues in System-on-Chip

A simulation case study of production planning and control in printed wiring board manufacturing

Dynamics of a buck converter with a constant power load

Neural networks, cell cultures and some older work on data analysis.