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Heba Kashmery

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With sincere thanks and appreciation extended for

the valuable contribution of

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In the seventh Saudi Students Conference (SSC2014)

that was held at Edinburgh International Conference Centre (EICC),

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Dr. Faisal M. Almohanna Abaalkhail

Saudi Arabian Cultural Attaché in the UK

Bodipy dye increases the spectral overlap term and
processed dye and then to the distal blue terminal.

Keywords: Energy transfer, Dyes, Molecular Photophysics, Fluorescence, Spectro
Photoacid.

Abstract No. 355: A Video Quality Prediction Model based on a Fuzzy Logic System Assess the QoS/QoE Correlation

Mohammed Alreshoodi, John Woods
School of Computer Science and Electronic Engineering
University of Essex, Colchester, UK

A model that can predict end user satisfaction or QoE (Quality of Experience) direct
from the network QoS (Quality of Service) is still illusive in the field of image proces
This motivates the derivation of a meaningful QoS to QoE mapping function to allow rea
be predicted in the absence of the other. This paper presents an affine fuzzy logic base
model that can estimate the visual perceptual video quality using a combination of netwo
level and application level QoS parameters. The proposed methodology employs a learnin
system which optimizes the coded video for best QoE. Four QoS parameters are chosen a
the inputs of the designed model, while the output is the Peak Signal-to-Noise Ratio (PSNR
From the results it is clear that the network level parameters have more impact on vide
quality than the application level parameters. The performance of the model was evaluate
using a public dataset.

Keywords: QoE; QoS; video quality; fuzzy logic.

Abstract No. 389: Mechanical and thermal properties of vinyl ester matrix nanocomposites based on layered silicate

A.I. Alateyah, H.N. Dhakal , Z.Y. Zhang
Al Imam Mohammad Ibn Saud Islamic University (IMSIU)
University of Portsmouth,
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The Mechanical and thermal properties of vinyl ester matrix nanocomposites based on layered silicate were investigated. To characterise interlaminar structure of the nanocomposites, XRD, SEM, and TEM were performed. The mechanical and thermal properties of neat sample were improved by the incorporation of layered silicate up to 4 wt.% clay loading. Further addition of layered silicate resulted in decreasing the overall properties, which could be traced to the presence of the aggregation layers as proved by the selected characterisations.

Abstract No. 417: Defining the structural parameters of triazole ligands in the template synthesis of silver nanoparticles

Heba Abbas Kashmery
Pure and Applied Chemistry University of Strathclyde

A new methodology for the preparation of triazole sugars has been developed to template the growth of silver nanoparticles (AgNPs) using the Tollen's reagent as a silver source. A series of triazole sugar were prepared containing up to six sugar reducing species. This report presents our latest findings in both the size and shape control of silver nanoparticles and

[illegible]

[illegible]

Abstract No. [illegible]: A Hybrid of MOEA/D and Guided Local Search applied to 0/1 Multiobjective Knapsack Problem

[illegible] Alhindi and Qingfu Zhang
University of Essex
[illegible]

Multiobjective Evolutionary Algorithm based on Decomposition (MOEA/D) [illegible] Guided Local Search [illegible] MOEA/D [illegible]

Keywords: Multiobjective Optimisation, Decomposition, Guided Local Search, Evolutionary Algorithms, Pareto Optimality, and Hybridisation.

Abstract No. 521: Derived Functors in Abelian Categories

[illegible]
School of Mathematical Sciences, University of Nottingham, UK

In this project we [illegible] left and right derived functors will be given and some properties of them will be given.

Keywords: Abelian category, [illegible]

Abstract No. [illegible]: Implementation and Preliminary Performance Results for GUMSMP: A Multilevel Parallel Haskell Implementation

Malak Aljabri, Hans-Wolfgang Loidl, and Phil Trinder
Heriot-Watt University/ Glasgow University
[illegible]

The most widely available high performance platforms today are hierarchical architectures e.g. clusters of multi-cores that are available even to small companies. Several parallel Haskell implementations are available for the Glasgow Haskell Compiler (GHC). In particular, Symmetric Multi-Processor implementation (GHC-SMP) supports shared memory, and the Graph Reduction for a Unified Machine Model implementation (GUM) supports distributed memory architectures. Both implementations use different but related runtime environment (RTE) mechanisms. Good performance results can be achieved using shared memory architectures and on networks individually, but a combination of both, enhanced for networks of multi-cores, is lacking. This paper presents the implementation and