

**Contents**

Editorial i

**Research**

Linear Programming Problem for Nonlinear Convex Set Constraints Based on Nonlinear Neural Network -  
Cai Huaxian, Tian Tianmingzi, Cai Yilin 287

Heuristic for Accelerating Run-Time Task Mapping in NoC-based Heterogeneous MPSoCs -  
Mohammed Kamel Benhaoua, AmitKumar Singh, Abou El Hassan Benyamin 292

A Multi-resolution Image Fusion Algorithm Based on Multi-factor Weights-  
Zhengfang FU, Hong ZHU 303

A Process-aware Security Task Scheduling Algorithm -  
Tao Zhang, Yuanyuan Ma, Cheng Zhou, Tao Li 311

Detecting Crime Types Using Classification Algorithms  
Cui-cui Sun, Chun-long Yao, Xu Li, Kejun Lee 321

Two-row License Plate Extraction Based on CIE Lab Color Space in a Digital Image  
Biao Yang, Qin Yang, Ruian Kung 328

A Video Image Compression Method based on Visually Salient Features  
Hongchang Ke, Hongbin Sun, Lei Gao, Hui Wang 333

**Book Review 340**

## Editorial

We present the following pieces of research in this issue.

In the opening paper, based on the concept of Internet cloud data structure, the author *Wang Fan* has constructed a new audit system evaluation model. In the second paper the authors *Cai Huaxian, Tian Tian and Cai Yilin* studied the optimization problem with nonlinear constrained convex set by the application of nonlinear neural network.

*Mohammed Kamel Benhaoua, AmitKumar Singh and Abou El Hassan Benyamin* in their paper proposed a packing strategy to find free resources for run-time mapping of application tasks on NoC-based Heterogeneous MPSoCs. *Yan Chen, Kang-Shun LI and Shan Chang* in their paper specified characteristics of a protein on three coordinate axes of Cartesian coordinate system, respectively, and proposed a new 3D graphical representation of protein sequences. *Zhengfang FU and Hong ZHU* proposed multiexposure image fusion in their paper, which is designed to combine three measuring factors of gradient, standard deviation and moderate exposure. To verify the theoretical feasibility of the IOAware scheduling algorithm, a schedule model is proposed to implement the method by *Tao Zhang, Yuanyuan Ma, Cheng Zhou and Tao Li*.

In order to get high classification accuracy of the crime data the authors *Cui-cui Sun, Chun-long Yao, Xu Li and Kejun Lee* have proposed three typical classification algorithms, including C4.5 algorithm, *Naive Bayesian* algorithm and K nearest neighbor (KNN) algorithm, which are compared using several popular missing data filling algorithms respectively based on a real crime dataset with lots of missing data. A novel license plate extraction method based on CIELab color space is proposed in the paper by *Biao Yang, Qin Yang and Ruien Kung*.

The study of *Hongchang Ke, Hongbin Sun, Lei Gao and, Hui Wang* presented a visual attention model for determining image areas to receive different extents of video compression.

Thus, the papers mark technical elegance.

## Editors