

# Journal of Computers

## Special Issue on Advances in Multimedia

### FOREWORD

The objective of this special issue is to present new research and developments in various aspects of multimedia processing and its applications. We hope this special issue will encourage the interested computer scientists in Taiwan to participate in this interesting and promising research field. Through a careful reviewing process, the editorial committee chose six excellent and timely papers. The first paper, entitled “Adaptive Significance Classification for Streaming Video over Differentiated Service Networks,” is contributed by Prof. Pao-Chi Chang and his colleagues. The second paper, entitled “Statistical Pitch Type Recognition in Broadcast Baseball Videos,” aims to recognize five baseball pitch types from broadcast baseball video. This work is contributed by Prof. Chia-Wen Lin and his colleagues. The third paper, entitled “Grid-based Template Matching for People Counting,” proposes a template matching method to detect and track pedestrians in real-time. This work is contributed by Prof. Jun-Wei Hsieh and his colleagues. The fourth paper, entitled “Image Content Analysis Using Modular RBF Neural Network,” proposes the use of modular RBF neural network and learning vector quantization mechanism to perform semantic-based image classification. The authors of this work include Prof. Chi-Fang Lin and his colleagues. The fifth paper, entitled “Vision-based Virtual Control Mechanism via Hand Gesture Recognition,” aims to develop an effective real-time virtual control mechanism based on hand gesture recognition. The work is contributed by Prof. Chia-Hung Yeh and his colleagues. The sixth paper, entitled “Content-aware Video Seam Carving Based on Bag of Visual Cubes,” proposes a novel approach for modeling dynamic visual attention based on spatiotemporal analysis. The work is contributed by Prof. Duan-Yu Chen and his student.

The editorial committee would like to take this opportunity to express our sincere appreciation to all the authors and reviewers for their great contribution to this special issue. Finally, we would like to thank Professor Chin-Chen Chang, the editor-in-chief of the Journal of Computers, and other editorial staffs, for their kind assistance during the editing of this special issue.

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