Volume 6, Number 2, December 2018

Computer Photography and Video Processing
Detection of Simulated Clonic Seizures from Depth Camera Recordings ................................................................. 88
  Mareike Wendebourg, Omer Rajput, and Alexander Schlaefer

Video Object Tracking with Heuristic Optimization Methods ................................................................. 95
  Chin-Shiuh Shieh, Yong-Shixa Jhan, Yuan-Li Liu, Mong-Fong Horng, and Tsair-Fwu Lee

Statistical Analysis of Parameters for Torque-Integrated Skinning ................................................................. 100
  YoungBeom Kim, Byoung-Ha Park, and Kwang-Mo Jung

Color Filter Array Design Based on Multi-Edge Constant Hue Algorithm ................................................................. 105
  Yu-Cheng Fan, Mao-Chun Chiu, and Yi-Cheng Liu

Image Security and Certification
Image Analysis and Development of Graphical User Interface for Pole Vault Action ................................................................. 109
  Rajeev Kanth, Jukka-Pekka Skö n, Kari Lehtomä ki, Paavo Nevalainen, Petra Virjonen, Mikko-Jussi Laakso, and Jukka Heikkonen

Implementation of a Graphical Password Authentication System ‘PassPositions’ ................................................................. 117
  Gi-Chul Yang and Haengun Oh

Multiple Watermarking with Biometric Data Using Discrete Curvelets and Contourlets ................................................................. 122
  Hoan Nguyen-Thanh, Thuong Le-Tien, and Thang Nguyen-Duy

Image Processing Technology and Method
An Efficient Contour Based Fine-Grained Algorithm for Multi Category Object Detection ................................................................. 127
  Rafflesia Khan, Taranum Fariha Raisa, and Rameswar Debnath

A Canonical Image Set for Examining and Comparing Image Processing Algorithms ................................................................. 137
  Jeffrey Uhlmann

Edge-Preserving Image Denoising Based on Orthogonal Wavelet Transform and Level Sets ................................................................. 145
  Junmei Zhong and Huifang Sun

Automatic Liver Segmentation Using U-Net with Wasserstein GANs ................................................................. 152
  Yuki Enokiya, Yutaro Iwamoto, Yen-Wei Chen, and Xian-Hua Han

Fatty Liver Identification with Novel Anisotropy Features Selected by PSO ................................................................. 160
  Nivedita Neogi, Arunabha Adhikari, and Madhusudan Roy

Face Image Super-Resolution with Adaptive Patch Size to Scaling Factor ................................................................. 167
  Suhail Hamdan, Yohei Fukumizu, Tomonori Izumi, and Hironori Yamauchi

Motion Trajectory for Human Action Recognition Using Fourier Temporal Features of Skeleton Joints ................................................................. 174
  Naresh Kumar and Nagarajan Sukavanam

Improving Robustness of Neural Networks against Bit Flipping Errors during Inference ................................................................. 181
  Minghai Qin, Chao Sun, and Dejan Vucinic