

Preface

Computer Vision and Robotics is one of the most challenging areas in the twenty-first century. Its applications range from agriculture to medicine, domestic to defense, deep-sea to space exploration, and manufacturing and transportation. Today's technologies demand intelligent machines, enabling newer applications in various domains and services.

We are pleased to bring the Proceedings of the International Conference on Computational Vision and Robotics (ICCV-2014). The aim of the conference was to provide a forum for researchers and scholars to present their research results along with the demonstration of new systems and techniques in the area of Computer Vision and Robotics. Papers from several different areas, such as early vision, shape/range/motion analysis, signal/image processing, image matching, pattern/face recognition, 3D vision/perception, and cognition and robotics were covered and discussed during the conference.

Like every year, this time also we received more than 80 papers for ICCV-2014 held at Bhubaneswar during August 9–10, 2014. This volume covers chapters from various areas of Computational Vision such as Image and Video Coding and Analysis, Image Watermarking, Noise Reduction and Cancellation, Block Matching and Motion Estimation, Tracking of Deformable Object using Steerable Pyramid Wavelet Transformation, Medical Image Fusion, CT and MRI Image Fusion based on Stationary Wavelet Transform. The book also covers articles from applications of soft computing techniques such as Target Searching and Tracking using Particle Swarm Optimization, PSO-based Functional Artificial Neural Network, etc. The book also covers articles from the areas of Robotics such as Solar Power Robot Vehicle, Multi Robot Area Exploration, Intelligent Driving System based on Video Sequencing, Emotion Recognition using MLP Network, Identifying the Unstructured Environment.

I am sure that the participants must have shared a good amount of knowledge during the conference. I must thank all the participants of ICCVR-2014 and hope that next year also they will attend the conference during the same time. I wish all success in their academic endeavors.

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