Advances in Intelligent Systems and Computing

Volume 459

Series editor

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Proceedings of International Conference on Computer Vision and Image Processing

CVIP 2016, Volume 1

Springer

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ISSN 2194-5357 ISSN 2194-5365 (electronic)
Advances in Intelligent Systems and Computing
ISBN 978-981-10-2103-9 ISBN 978-981-10-2104-6 (eBook)
DOI 10.1007/978-981-10-2104-6

Library of Congress Control Number: 2016952824

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Printed on acid-free paper

This Springer imprint is published by Springer Nature
The registered company is Springer Nature Singapore Pte Ltd.
The registered company address is: 152 Beach Road, #22-06/08 Gateway East, Singapore 189721, Singapore

Preface

The first International Conference on Computer Vision and Image Processing (CVIP 2016) was organized at Indian Institute of Technology Roorkee (IITR) during February 26 to 28, 2016. The conference was endorsed by International Association of Pattern Recognition (IAPR) and Indian Unit for Pattern Recognition and Artificial Intelligence (IUPRAI), and was primarily sponsored by the Department of Science and Technology (DST) and Defense Research and Development Organization (DRDO) of the Government of India.

CVIP 2016 brought together delegates from around the globe in the focused area of computer vision and image processing, facilitating exchange of ideas and initiation of collaborations. Among 253 paper submissions, 119 (47 %) were accepted based on multiple high-quality reviews provided by the members of our technical program committee from 10 different countries. We, the organizers of the conference, were ably guided by its advisory committee comprising distinguished researchers in the field of computer vision and image processing from seven different countries.

A rich and diverse technical program was designed for CVIP 2016 comprising five plenary talks, and paper presentations in eight oral and three poster sessions. Emphasis was given to the latest advances in vision technology such as deep learning in vision, non-continuous long-term tracking, security in multimedia systems, egocentric object perception, sparse representations in vision, and 3D content generation. The papers for the technical sessions were divided based on their theme relating to low-, mid-, and high-level computer vision and image/video processing and their applications. This edited volume contains the papers presented in the technical sessions of the conference, organized session-wise.

Organizing CVIP 2016, which culminates with the compilation of these two volumes of proceedings, has been a gratifying and enjoyable experience for us.

The success of the conference was due to synergistic contributions of various individuals and groups including the international advisory committee members with their invaluable suggestions, the technical program committee members with their timely high-quality reviews, the keynote speakers with informative lectures,

the local organizing committee members with their unconditional help, and our sponsors and endorsers with their timely support.

Finally, we would like to thank Springer for agreeing to publish the proceedings in their prestigious Advances in Intelligent Systems and Computing (AISC) series. Hope the technical contributions made by the authors in these volumes presenting the proceedings of CVIP 2016 will be appreciated by one and all.

Roorkee, India

Balasubramanian Raman
Sanjeev Kumar
Partha Pratim Roy
Debashis Sen

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