

# Preface

This book presents the proceedings of the 4th IAPR TC 9 Workshop on Pattern Recognition of Social Signals in Human-Computer-Interaction (MPRSS 2016). This workshop endeavored to bring recent research in pattern recognition and human-computer-interaction together, and succeeded to install a forum for ongoing discussions. In recent years, research in the field of intelligent human-computer-interaction has made considerable progress in methodology and application. However, building intelligent artificial companions capable of interacting with humans, in the same way humans interact with each other, remains a major challenge in this field. Pattern recognition and machine learning methodology play a major role in this pioneering research. MPRSS 2016 focused mainly on pattern recognition, machine learning, and information fusion methods with applications in social signal processing, including multimodal emotion recognition, user identification, and recognition of human activities. For the MPRSS 2016 workshop 13 out of 19 papers were selected for presentation at the workshop and for inclusion in this volume. MPRSS 2016 was held as a satellite workshop of the International Conference on Pattern Recognition (ICPR 2016) in Cancun, Mexico, on December 4, 2016.

This workshop would not have been possible without the help of many people and organizations. First of all, we are grateful to all the authors who submitted their contributions to the workshop. We thank the members of the Program Committee for performing the difficult task of selecting the best papers for this book, and we hope that readers of this volume may enjoy this selection of excellent papers and get inspired from its contributions. MPRSS 2016 was supported by the University of Ulm (Germany), the University of Southern California (USA), the Transregional Collaborative Research Center SFB/TRR 62 Companion-Technology for Cognitive Technical Systems at Ulm University, the International Association for Pattern Recognition (IAPR), and the new IAPR Technical Committee on Pattern Recognition in Human-Computer-Interaction (TC 9). Finally, we wish to express our gratitude to Springer for publishing our workshop proceedings in their LNCS/LNAI series.

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