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Titolo	Multimodal Technologies for Perception of Humans : First International Evaluation Workshop on Classification of Events, Activities and Relationships, CLEAR 2006, Southampton, UK, April 6-7, 2006, Revised Selected Papers / / edited by Rainer Stiefelhagen, John Garofolo
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Overview -- The CLEAR 2006 Evaluation -- 3D Person Tracking -- 3D Audiovisual Person Tracking Using Kalman Filtering and Information Theory -- A Generative Approach to Audio-Visual Person Tracking -- An Audio-Visual Particle Filter for Speaker Tracking on the CLEAR'06 Evaluation Dataset -- Multi-and Single View Multiperson Tracking for Smart Room Environments -- UPC Audio, Video and Multimodal Person

Tracking Systems in the Clear Evaluation Campaign -- A Joint System for Single-Person 2D-Face and 3D-Head Tracking in CHIL Seminars -- Speaker Tracking in Seminars by Human Body Detection -- TUT Acoustic Source Tracking System 2006 -- Tracking Multiple Speakers with Probabilistic Data Association Filters -- 2D Face Detection and Tracking -- 2D Person Tracking Using Kalman Filtering and Adaptive Background Learning in a Feedback Loop -- PittPatt Face Detection and Tracking for the CLEAR 2006 Evaluation -- Person Tracking on Surveillance Data -- The AIT Outdoors Tracking System for Pedestrians and Vehicles -- Evaluation of USC Human Tracking System for Surveillance Videos -- Vehicle Tracking -- Multi-feature Graph-Based Object Tracking -- Multiple Vehicle Tracking in Surveillance Videos -- Robust Appearance Modeling for Pedestrian and Vehicle Tracking -- Robust Vehicle Blob Tracking with Split/Merge Handling -- Person Identification -- A Decision Fusion System Across Time and Classifiers for Audio-Visual Person Identification -- The CLEAR'06 LIMSI Acoustic Speaker Identification System for CHIL Seminars -- Person Identification Based on Multichannel and Multimodality Fusion -- ISL Person Identification Systems in the CLEAR Evaluations -- Audio, Video and Multimodal Person Identification in a Smart Room -- Head Pose Estimation -- Head Pose Estimation on Low Resolution Images -- Evaluation of Head PoseEstimation for Studio Data -- Neural Network-Based Head Pose Estimation and Multi-view Fusion -- Head Pose Estimation in Seminar Room Using Multi View Face Detectors -- Head Pose Detection Based on Fusion of Multiple Viewpoint Information -- Acoustic Scene Analysis -- CLEAR Evaluation of Acoustic Event Detection and Classification Systems -- The CLEAR 2006 CMU Acoustic Environment Classification System -- Other Evaluations -- 2D Multi-person Tracking: A Comparative Study in AMI Meetings -- Head Pose Tracking and Focus of Attention Recognition Algorithms in Meeting Rooms.

Sommario/riassunto

This book constitutes the thoroughly refereed joint post-workshop proceedings of two co-located events: the Second International Workshop on Classification of Events, Activities and Relationships, CLEAR 2007, and the 5th Rich Transcription 2007 Meeting Recognition evaluation, RT 2007, held in succession in Baltimore, MD, USA, in May 2007. The workshops had complementary evaluation efforts; CLEAR for the evaluation of human activities, events, and relationships in multiple multimodal data domains; and RT for the evaluation of speech transcription-related technologies from meeting room audio collections. The 35 revised full papers presented from CLEAR 2007 cover 3D person tracking, 2D face detection and tracking, person and vehicle tracking on surveillance data, vehicle and person tracking aerial videos, person identification, head pose estimation, and acoustic event detection. The 15 revised full papers presented from RT 2007 are organized in topical sections on speech-to-text, and speaker diarization.
