Abstract

Coordinated movements in teams involve strategic positioning and motions that are coordinated among a team of people. Since there are numerous coordinated movements that are in common use by military, criminal and sporting teams, experts in the fields of security and sports dedicate much of their time to understanding, devising and recognizing tactics that are in play in a particular scenario. In this study, a framework for automated analysis and profiling of coordinated movements using the machine vision techniques of visual object tracking and 3-dimensional reconstruction is discussed. The study also considers the feasibility of using real-time analysis of coordinated movements in assisted surveillance to buttress security. In this paper, a simplified description of the framework is proposed and its operation is explained.
Real-Time Analysis and Profiling of Coordinated Movements in Two-Dimensional Space using Footage from Multiple Cameras

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Index Terms

Computer Science Image Processing

Keywords

Tactical Movement, Team Coordination, 3D Reconstruction; Visual Object Tracking, Trajectory Mapping, Assisted Surveillance, Sports Analysis