Abstract:
Multiview video coding (MVC), which is becoming an extension of H.264/AVC, is currently under development by the Joint Video Team (JVT). Compared to H.264/AVC, the main new compression tool in MVC is inter-view prediction, which, among others, causes a substantial increase of the decoded picture buffer (DPB) size. Therefore to have an efficient buffer management for MVC is highly desirable. In this paper, we provide analyses of minimum buffer requirements for typical MVC coding structure with two coding methods, view-first coding and time-first coding. The analysis results are helpful in designing reference picture management or reference picture marking methods.