

عنوان مقاله:

ROI Soccer Video Compression Using Wavelet- Domain Block Matching and EBCOT Coding Techniques In Very Low Bit Rate Communication

محل انتشار:

اولین کنفرانس بازشناسی الگو و پردازش تصویر ایران (سال: 1391)

تعداد صفحات اصل مقاله: 9

نویسندگان:

Hadi Grailu - *Electrical Engineering Department Shahrood University of Technology Shahrood, Iran*

Roya Soltani - *Electrical Engineering Department Shahrood University of Technology Shahrood, Iran*

Mohsen Akrami - *Electrical Engineering Department Shahrood University of Technology Shahrood, Iran*

خلاصه مقاله:

Today, a large amount of sport video data are produced which needs to be stored and/or transmitted in low bit rate applications such as internet communication. The Region-ofinterest (ROI) video coding technique aims to relatively preserve the video quality, especially in desired regions. In other hand, insoccer videos only special regions have importance for the viewer. In this paper a novel ROI soccer video compression method is proposed which employs wavelet-domain block matching, shotboundary detection, Enhanced EBCOT coding, and region-ofinterest detection techniques. The compression performance of the proposed method is compared to that of two conventional methods/standards of MPEG4 and FLV. Simulation results show that in fixed low bit rate of 8Kbps, the proposed method has about 1.5 dB higher average PSNR than that of the other ones.

کلمات کلیدی:

ROI Video Coding; Soccer Video; Block Matching Technique; EBCOT Coding

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/275935>

