Invitation to tender for a license / purchase of rights to solution from Poznań University of Technology entitled:
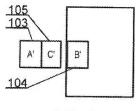
A system and a method for disoccluded region coding in a multiview video data stream
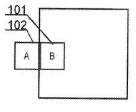
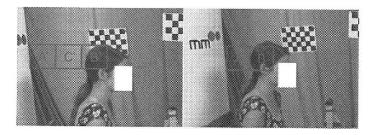Type of solution

Invention

Idea of solution

A method for disoccluded region coding in multiview video data stream by an entropy encoder, the method comprising the steps of coding a block of a base view; storing state and estimated probabilities in contexts models of the entropy encoder in a context storage module with a reference identifying the block of the base view; repeating the aforementioned steps of coding and storing for every block of the base view of the multiview video data stream; starting coding of a disoccluded region and dividing, into blocks, disoccluded area of a side view associated with the base view; determining, for neighboring blocks, of currently coded block, that have not been in the disoccluded area, a corresponding block in the base view, using a block correspondence database; when Such a correspondence is determined, reading a previously stored State and estimated probabilities in context models of the entropy encoder for the corresponding block; copying all coding modes from the corresponding block to the neighboring block; applying State and estimated probabilities in context models to the entropy encoder of the block that is adjacent to the currently processed block: encoding, by the entropy encoder, the selected block of the side view; and repeating steps (e) to (i) for all blocks of the side view associated with the base view processed in steps (a) to (b).

Side view

Base view

Solution advantages / Market advantage

The invention relates to a system and a method for disoccluded region coding in multiview video data stream. In particular, the present invention relates to mitigating context dilution during disoccluded region coding, in order to improve compression ratios for side views in multiview coding.

Clients

Companies dealing with Virtual Reality systems, multi-view sequence compression, Free Viewpoint Television (FTV).

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Technology Readiness Level (TRL)
TRL 2 - technology concept formulated

Status of legal protection
Patent no. EP 3110156 validated: PL, DE, FR, GB https://patents.google.com/patent/EP3110156B1/en?oq=EP3110156B1 Patent no. US 9992514 https://patents.google.com/patent/US9992514B2/en?oq=US+9992514

Preferred form of commercialization
Non-exclusive license Exclusive license Sale of patent rights Spin-off company R&D and implementation projects

Form of transfer of rights
Patent documentation.

Additional information
1. This Invitation to submit offers does not constitute an offer within the meaning of the provisions of the Civil Code. 2. Poznan University of Technology will reject the offer if it contains an abnormally low price in relation to the value of the solution. 3. Poznan University of Technology, in order to determine whether the offer contains an abnormally low price in relation to the value of the solution, will ask the Tenderer to provide explanations within a specified time limit regarding the elements of the offer affecting the price. 4. If in the competition procedure it is not possible to select the best offer due to the fact that offers of the same price have been submitted, the Poznan University of Technology will call the Tenderers who submitted these offers to submit additional offers within the time limit specified by the Poznan University of Technology. 5. Poznan University of Technology reserves the right to cancel the competition procedure if the submitted offers contain prices whose value will not exceed the value of the solution. 6. Poznan University of Technology reserves the right to negotiate with selected Bidders. 7. Poznan University of Technology has the right to withdraw from the procedure without giving any reason, without choosing an offer. 8. The conclusion of the contract is conditional on the fulfillment of procedures provided for by legal regulations applicable to universities.

Method of submitting offers
Offers should be submitted in Polish, in writing to the address of the Technology Transfer Center of the Poznan University of Technology or electronically to the unit's e-mail address.

Contact details
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