

Title (en)  
METHOD OF WAVELET CODING A MESH OBJECT

Title (de)  
VERFAHREN ZUR KODIERUNG EINES VERMASCHTEN OBJEKTES MITTELS WAVELETS

Title (fr)  
PROCEDE DE CODAGE PAR ONDELETTES D'UN OBJET MAILLE

Publication  
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Application  
**EP 02762522 A 20020704**

Priority  
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Abstract (en)  
[origin: FR2827409A1] The invention relates to a method of coding an object having at least two dimensions which is associated with a basic mesh comprising a set of basic surfaces and with coefficients in a base of wavelets corresponding to local modifications to said basic mesh. The inventive method delivers a global data flow that can be used to reconstruct the object. According to the invention, said wavelet coefficients are partitioned into at least two disjoint subsets each of which is encoded independently. Subsequently, positional data are inserted by the method into the global data flow which can be used to locate wavelet coefficients relative to a portion of the object in said global data flow, in such a way as to enable a selective reconstruction of said portion using the coefficients of at least one of said subsets.  
[origin: FR2827409A1] The image encoding uses a base mesh and wavelet coefficients for local modifications of the mesh. Wavelet coefficients are partitioned into disjoint subsets each coded independently. Data permitting location of the wavelet coefficient relative to part of the image is inserted into the data used to reconstruct the image, to allow selective reconstruction of part of the image.

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Citation (search report)  
See references of WO 03009234A1

Citation (examination)  
• WO 0001153 A1 20000106 - ERICSSON TELEFON AB L M [SE], et al  
• KHODAKOVSKY A ET AL: "PROGRESSIVE GEOMETRY COMPRESSION", COMPUTER GRAPHICS. SIGGRAPH 2000 CONFERENCE PROCEEDINGS. NEW ORLEANS, LA, JULY 23 - 28, 2000; [COMPUTER GRAPHICS PROCEEDINGS. SIGGRAPH], NEW YORK, NY : ACM, US, 23 July 2000 (2000-07-23), pages 271 - 278, XP001003565, ISBN: 978-1-58113-208-3

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