

Title (en)
IMAGE COMPRESSION USING FRACTAL TILINGS

Title (de)
FRACTALZIEGELBILDKOMPRESSION

Title (fr)
COMPRESSION D'IMAGES PAR PAVAGE FRACTAL

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Application
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Abstract (en)
[origin: WO9713219A1] A system and method for compressing a data set using lattice tilings is disclosed. The system includes a data buffer (22) for the storage of data elements to be compressed, a database (26) of non-rectangular shapes and corresponding mapping transformations, and a controller (24) for selecting a non-rectangular shape and corresponding mapping transformation from the database and using the selected shape to segment the data elements in accordance with the selected shape. Following the segmenting of the data elements, the controller determines coefficients for the corresponding mapping transformations which represent the data set. An entropy encoder (28) may be included which losslessly encodes the coefficients. A method for generating non-rectangular lattice tilings is also disclosed.

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