Title (en)
APPARATUS FOR SIMULTANEOUSLY FILTERING AND RESAMPLING DIGITAL DATA

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Application
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Abstract (en)
[origin: WO9000780A1] The present invention provides an apparatus for processing a set of digital data, comprising computational circuitry (26, 28) for implementing a modified cubic convolution interpolation for simultaneously resampling and filtering the set of digital data. In a preferred embodiment the set of data represents pixel data for a two dimensional image and the apparatus further includes a memory (22) for storing the pixel data, circuitry (24) for coupling the pixel data from the memory (22) to the computational circuitry, circuitry (30, 36) for outputting and for storing in the memory (22), filtered and resampled pixel data from the computational circuitry (26, 28) and a bit-slice processor (32) for programmably controlling the memory (22), the computational circuitry (26, 28) and the circuitry (30, 36) for outputting and for storing. Such an apparatus provides digital image processing in systems for producing hard copy of the electronic image data and, in particular, color hard copy.

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Citation (search report)
- [X] COMPUTER VISION, GRAPHICS, AND IMAGE PROCESSING; ACADEMIC PRESS, HARCOURT BRACE JOVANOVICH, PUBLISHERS vol. 23, no. 3, September 1983, NEW YORK, US pages 258 - 272; S.K.PARK, R.A.SCHOWENGERDT: 'IMAGE RECONSTRUCTION BY PARAMETRIC CUBIC CONVOLUTION'
- See references of WO 9000780A1

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