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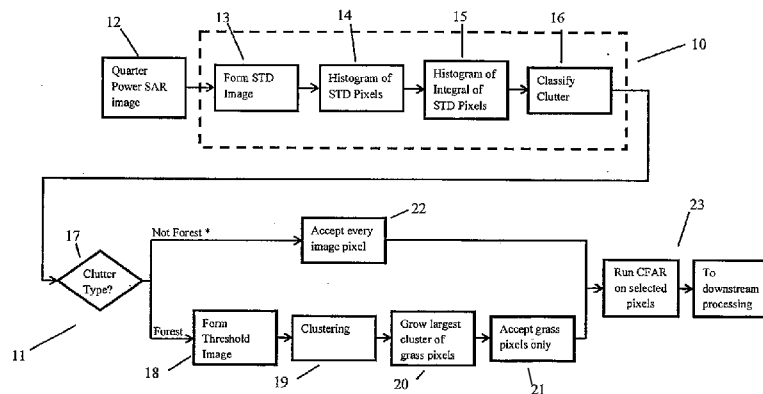
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(54) Title: REDUCTION OF CFAR FALSE ALARMS VIA CLASSIFICATION AND SEGMENTATION OF SAR IMAGE CLUTTER

FIG. 2



(57) Abstract: The classification and segmentation system of the current invention makes use of information from pixels of an image, namely the magnitude of the pixels, to run specific analytics to classify and segment the image pixels into different groups. This invention includes a system for processing an image, the system including an input device, a processor, a memory and a monitor. The input device is configured to receive image data, where the image data includes pixels and each pixel has a magnitude. The memory has instructions stored in it that, when executed by the processor, cause the processor to run calculations. The calculations include: calculating the log-magnitudes' from the magnitudes of at least a plurality of the pixels, calculating standard deviations of the log-magnitudes for subsets of the plurality of pixels and compute an integral of the standard deviations over a desired range. The pixels are classified into different groups based on a value of the integral relative to one or more integral values. In one embodiment, a monitor is configured to display a threshold image, wherein the threshold image includes the different groups of pixels.

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A. CLASSIFICATION OF SUBJECT MATTER
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ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
G01S G06K G06T

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-Internal , WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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A	GUO WEI ET AL: "A New Method of SAR Image Target Recognition based on AdaBoost Algorithm", GEOSCIENCE AND REMOTE SENSING SYMPOSIUM, 2008. IGARSS 2008. IEEE INTERNATIONAL, IEEE, PISCATAWAY, NJ, USA, 7 July 2008 (2008-07-07) , pages 111-1194, XP031422721 , ISBN: 978-1-4244-2807-6 the whole document	1-16
A	EP 2 500 864 A1 (AGFA HEALTHCARE [BE]) 19 September 2012 (2012-09-19) paragraph [0097]	1-16

Further documents are listed in the continuation of Box C.

See patent family annex.

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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A	US 2010/052977 AI (SATHYENDRA HARSHA M [US]) 4 March 2010 (2010-03-04) f i g u r e 2 -----	1-16
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INTERNATIONAL SEARCH REPORT

Information on patent family members

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