

Title (en)

METHOD FOR SEGMENTATION IN AN N-DIMENSIONAL CHARACTERISTIC SPACE AND METHOD FOR CLASSIFICATION ON THE BASIS OF GEOMETRIC CHARACTERISTICS OF SEGMENTED OBJECTS IN AN N-DIMENSIONAL DATA SPACE

Title (de)

VERFAHREN ZUR SEGMENTIERUNG IN EINEM N-DIMENSIONALEN MERKMALSRaum UND VERFAHREN ZUR KLASSIFIKATION AUF GRUNDLAGE VON GEOMETRISCHEN EIGENSCHAFTEN SEGMENTIERTER OBJEKTE IN EINEM N-DIMENSIONALEN DATENRAUM

Title (fr)

PROCEDE POUR SEGMENTER DANS UN ESPACE DE CARACTERISTIQUES A N DIMENSIONS ET PROCEDE DE CLASSIFICATION A PARTIR DE PROPRIETES GEOMETRIQUES D'OBJETS SEGMENTES DANS UN ESPACE DE DONNEES A N DIMENSIONS

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Application

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Abstract (en)

[origin: WO2007042195A2] The invention relates to a segmentation method comprising the following steps: a single data space is selected in an n-dimensional characteristic space by the user in a first step. Said selected data space is fundamentally interpreted by the system as containing at least two categories of objects to be segmented. In the following steps, the system first determines a separating function in the n-dimensional characteristic space for differentiating the at least two categories and then applies said separating function to the entire data space or a large part of the data space. Said segmenting result is then visually presented to the user in real time. The invention also relates to a method for classifying objects on the basis of geometric characteristics of objects previously segmented according to any method in an n-dimensional data space. In a first step, at least two objects are selected as representatives of two different categories, then a number (m) of geometric characteristics per object is determined by calculating various whole wave functions, and the objects are classified on the basis of the defined number of geometric characteristics or partial quantities. The previously required segmentation of the objects can be carried out according to an inventive method.

IPC 8 full level

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