

EUROPEAN PATENT OFFICE  
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 268

DATE: JANUARY 1, 2018

PROJECT DP0185

**The following classification changes will be effected by this Notice of Changes:**

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
<b>DEFINITIONS:</b>		
Definitions New:	G06T	7/10, 7/30, 7/50, 7/521, 7/55, 7/586, 7/593, 7/70, 7/80
Definitions Modified:	G06T	subclass
	G06T	7/00, 7/20, 7/40, 7/60

**No other subclasses/groups are impacted by this Notice of Changes.**

**This Notice of Changes includes the following [Check the ones included]:**

1. CLASSIFICATION SCHEME CHANGES

- A. New, Modified or Deleted Group(s)
- B. New, Modified or Deleted Warning(s)
- C. New, Modified or Deleted Note(s)
- D. New, Modified or Deleted Guidance Heading(s)

2. DEFINITIONS

- A. New or Modified Definitions (Full definition template)
- B. Modified or Deleted Definitions (Definitions Quick Fix)

3.  REVISION CONCORDANCE LIST (RCL)

4.  CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)

5.  CHANGES TO THE CROSS-REFERENCE LIST (CRL)

## 2. A. DEFINITIONS (New)

Insert the following new definitions.

### G06T7/10

#### Definition statement

*This place covers:*

- Segmentation, i.e. partitioning an image into regions
- Edge detection, i.e. detection of edge features in an image

#### References

##### Limiting references

*This place does not cover:*

Motion-based segmentation	<a href="#">G06T7/215</a>
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##### Application-oriented references

*Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:*

Separation of touching or overlapping patterns for pattern recognition, e.g. character segmentation for optical character recognition (OCR)	<a href="#">G06K9/34</a>
Extraction of image features/characteristics for pattern recognition	<a href="#">G06K9/46</a>
Detecting partial patterns, e.g. edges or contours, or configurations, e.g. loops, corners, strokes, intersections, for pattern recognition	<a href="#">G06K9/4604</a>

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## Informative references

Analysis of texture	<a href="#">G06T7/40</a>
Determination of colour characteristics	<a href="#">G06T7/90</a>
Feature extraction related to colour, for pattern recognition	<a href="#">G06K9/4652</a>
Clustering techniques in pattern recognition	<a href="#">G06K9/6218</a>
Classification techniques in pattern recognition	<a href="#">G06K9/6267</a>

## Special rules of classification within this group

In this group, multi-aspect classification is applied. Specifically, where classification is made in [G06T7/11](#), [G06T7/12](#) or [G06T7/13](#), classification should also be made in the relevant groups [G06T7/136](#) to [G06T7/194](#).

Further segmentation details are covered by the subgroups of Indexing Code G06T2207/20112. Where classification is made in [G06T7/11](#), [G06T7/12](#) or [G06T7/13](#), classification should also be made in the relevant groups [G06T2207/20116](#) to [G06T2207/20168](#).

## G06T7/30

### Definition statement

*This place covers:*

Image analysis algorithms for determining geometric transformations required to register (i.e. align) separate images. The process involves the estimation of transform parameters. Registration means determining the alignment of images or finding their relative position.

- Registration of image subparts for the construction of mosaics image
- Multi-modal, cross-modal, across-modal registration of medical image data sets
- Registration with medical atlas Registration of pre-operative and intra-operative medical image data sets
- Registration for change detection in biomedical or remote sensing images (change detection see also [G06T7/20](#))
- Registration of models
- Registration of a model with an image
- Registration of range data, point clouds (ICP algorithm)
- 2D/2D, 2D/3D, 3D/3D registration
- Interactive registration

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## References

### Application-oriented references

*Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:*

Recognising three-dimensional objects, e.g. range data matching for pattern recognition	<a href="#">G06K9/00201</a>
Segmentation involving deformable models	<a href="#">G06T7/149</a>

### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Combining images from different aspect angles, e.g. spatial compounding	<a href="#">G01S15/8995</a>
Image matching for pattern recognition or image matching in general	<a href="#">G06K9/6201</a>
Comparing pixel values or logical combinations thereof, e.g. template matching	<a href="#">G06K9/6202</a>
Geometric image transformation in the plane of the image for image registration	<a href="#">G06T3/0068</a>
Analysis of motion	<a href="#">G06T7/20</a>

### Special rules of classification

For registration of medical image data, an Indexing Code from the range of [G06T2207/30004](#) to [G06T2207/30104](#) (Biomedical image processing) should be added.

For involving image mosaicing, Indexing Code [G06T2200/32](#) should be added.

For Interactive image processing based on input by user, an Indexing Code from the range of [G06T2207/20092](#) to [G06T2207/20108](#) should be added.

### Synonyms and Keywords

*In patent documents, the following words/expressions are often used with the meaning indicated:*

Recalage (French)	Registration (English)
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## G06T7/50

### Definition statement

*This place covers:*

- Image analysis algorithms for determining scene depth parameters from image characteristics.
- Shape from X
- Depth map determination
- Disparity calculation for shape recovery

### References

#### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Picture taking arrangements specially adapted for photogrammetry or photographic surveying	<a href="#">G01C11/02</a>
LIDAR systems for mapping or imaging	<a href="#">G01S 17/89</a>

## G06T7/521

### Definition statement

*This place covers:*

Illustrative example:



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## References

### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Image acquisition and arrangements for measuring contours or curvatures of an object by projecting a pattern thereupon	<a href="#">G01B11/25</a>
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### Glossary of terms

*In this place, the following terms or expressions are used with the meaning indicated:*

Structured	characterises the illumination
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## G06T7/55

## References

### Application-oriented references

*Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:*

Volumetric display with depth sampling, i.e. the volume being constructed from a stack or sequence of 2D image planes	<a href="#">H04N13/0488</a>
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### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Determining parameters from multiple pictures, e.g. disparity calculation as such	<a href="#">G06T7/97</a>
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### Special rules of classification

For documents concerning trilinear computations, trifocal tensor: add the Indexing Code [G06T2207/20088](#): Trinocular vision calculations; trifocal tensor.

## G06T7/586

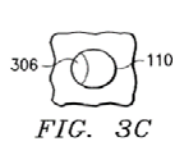
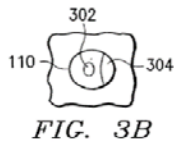
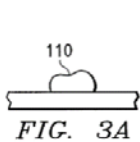
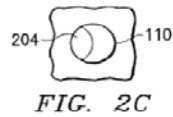
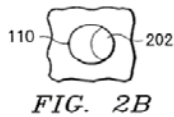
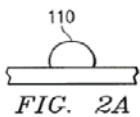
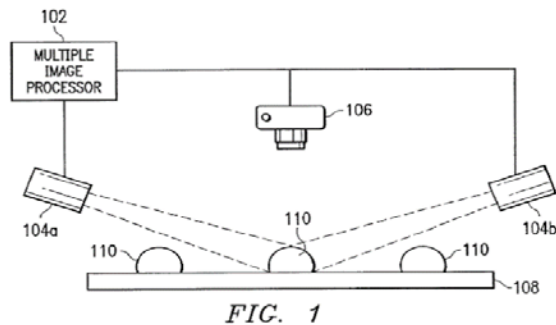
### Definition statement

*This place covers:*

Algorithms for the determination of scene depth parameters from multiple images for which more than one source of illumination has been used. Typically, different illumination sources are used when capturing each of the multiple images to produce different images of the same scene under the different lighting conditions. The different images are used to determine depth and shape parameters in the scene.

- Different illumination intensities, e.g. ambient and flash
- Different directions of illumination

Illustrative example:



## Glossary of terms

In this place, the following terms or expressions are used with the meaning indicated:

Photometric stereo	a technique for estimating the normal vectors at different points on an object's surface by observing the object under different lighting conditions.
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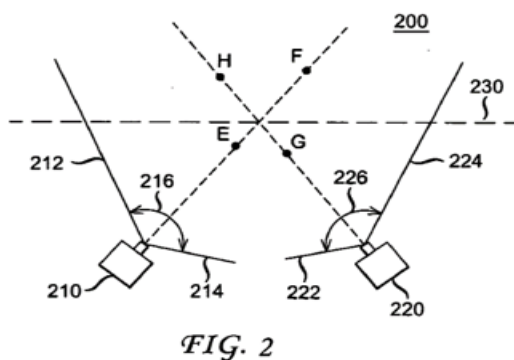
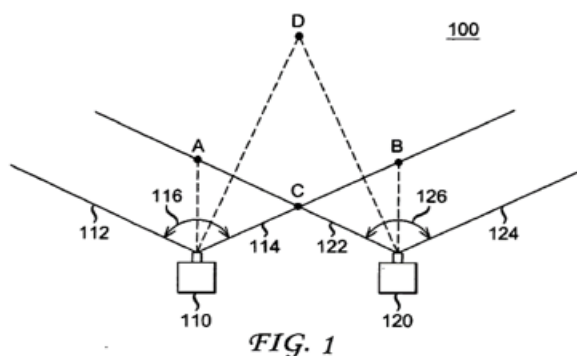
## G06T7/593

### Definition statement

This place covers:

Shape from stereo images or sequences of stereo images

Illustrative example:





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## References

### Application-oriented references

*Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:*

Stereo video generation based on depth image-based rendering (DIBR)	<a href="#">H04N13/0271</a>
Stereoscopic or multiview image generation wherein the generated image signals comprise depth maps or disparity maps	<a href="#">H04N13/0271</a>

### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Depth or shape recovery from multiple images using trilinear computations / the trifocal tensor	<a href="#">G06T7/55</a> , <a href="#">G06T2207/20088</a>
Depth or shape recovery from multiple images using the quadrifocal tensor	<a href="#">G06T7/55</a>

## G06T7/70

### Definition statement

*This place covers:*

- Image processing algorithms for determining the position or orientation of an image subject, or of the camera having acquired the image.
- Position or orientation of the camera
- Estimation of position, pose, posture, attitude in 2D and 3D
- Gaze direction, head pose
- Bin picking

## References

### Limiting references

*This place does not cover:*

Camera calibration	<a href="#">G06T7/80</a>
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## Application-oriented references

*Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:*

Acquiring or recognising human faces, facial parts, facial sketches, facial expressions, eyes	<a href="#">G06K9/00221</a> , <a href="#">G06K9/00597</a>
Orientation detection before recognition	<a href="#">G06K9/3208</a>

## Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Measuring position in terms of linear or angular dimensions	<a href="#">G01B</a>
Mask, wafer positioning, alignment	<a href="#">H01L21/681</a>
Studio circuitry, e.g. for position determination of a camera in a television studio	<a href="#">H04N5/222</a>
Locating or presence-detecting by the use of the reflection or reradiation of radio or other waves	<a href="#">G01S</a>
Matching for pattern recognition	<a href="#">G06K9/6201</a>
Image feed-back for automatic industrial control	<a href="#">G06T1/0014</a>
Analysis of motion	<a href="#">G06T7/20</a>
Aligning or positioning of tools relative to the circuit board for manufacturing printed circuits	<a href="#">H05K3/0008</a>

## Special rules of classification

For camera pose, Indexing Code [G06T2207/30244](#) should be added. For workpiece; machine component, Indexing Code [G06T2207/30164](#) should be added.

## Synonyms and Keywords

*In patent documents, the following words/expressions are often used as synonyms:*

- “Repérage” (in French documents), “location”, and “locating”

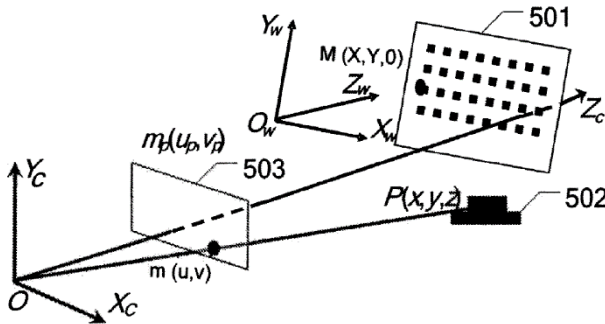
## G06T7/80

### Definition statement

*This place covers:*

The use of methods/algorithms to analyse camera images for the determination of intrinsic parameters defining the camera's properties, or for the determination of extrinsic parameters defining the camera's position and orientation. Camera calibration enables pixel positions in a captured 2D image to be mapped to real-world 3D coordinates of the subject represented in the image.

Illustrative example:



### References

#### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Calibration patterns	<a href="#">G01B21/042</a> , <a href="#">G01C15/02</a>
Systems for automatic generation of focusing signals	<a href="#">G02B7/28</a>
Focusing aids for cameras; Autofocus systems for cameras	<a href="#">G03B13/00</a>
Geometric correction, e.g. of lens distortion	<a href="#">G06T5/006</a>
Determining position or orientation of objects, e.g. of the camera, without calibration context	<a href="#">G06T7/70</a> , <a href="#">G06T2207/30244</a>
Colour balance, e.g. colour cast correction	<a href="#">H04N1/6077</a>
Suppressing or minimising disturbance in picture signal generation	<a href="#">H04N5/217</a>
Picture signal generators using solid state devices, e.g. correction of chromatic aberrations	<a href="#">H04N9/045</a>
Calibration of stereoscopic cameras	<a href="#">H04N 13/0246</a>

## **Glossary of terms**

*In this place, the following terms or expressions are used with the meaning indicated:*

Intrinsic parameters	The geometric and optical characteristics of a camera, including effective focal length, a scale factor and the image centre or “principal point”.
Extrinsic parameters	The three-dimensional position and orientation of the camera in real-world coordinates.

## **Synonyms and Keywords**

*In patent documents, the following words/expressions are often used as synonyms.*

- “Camera calibration”, “Geometric camera calibration”, and “Camera re-sectioning”.

## 2. A. DEFINITIONS (Modified)

### G06T

Delete: All of the existing bulleted statements in the definition statement section.

- General purpose image data processing.
- Geometric image transformations in the plane of the image, e.g. from bit-mapped to bit-mapped creating a different image.
- Image enhancement or restoration, e.g. from bit-mapped to bit-mapped creating a similar image.
- Image analysis, e.g. from bit-mapped to non bit-mapped.
- Image coding, e.g. from bit-mapped to non bit-mapped.
- Two Dimensional image generation.
- Animation.
- Three Dimensional image rendering.
- Three-dimensional modelling, e.g. data description of 3D objects.
- Manipulating 3D models or images for computer graphics.

Insert: The following replacement statements.

- Processor architectures or memory management for general purpose image data processing
- Geometric image transformations
- Image enhancement or restoration
- Image analysis
- Image coding
- Two-dimensional image generation
- Animation
- Three-dimensional image rendering
- Three-dimensional modelling for computer graphics
- Manipulating three-dimensional models or images for computer graphics

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## Relationships with other classification places

Delete: The existing paragraph in Relationships with other classification places.

Insert: The following replacement paragraph.

G06T is the functional place for image data processing or generation. Image data processing or generation specially adapted for a particular application is classified in the relevant subclass. Documents which merely mention the general use of image processing or generation without detailing of the underlying details of such, are classified in the application place. Where the essential technical characteristics of an invention relate both to the image processing or generation and to its particular use or special adaptation, classification is made in both G06T and the application place.

## Limiting references

Delete: The entire existing Limiting references section/table.

### Limiting references

*This place does not cover:*

Photogrammetry or videogrammetry	G01C 11/00
Computer-aided design	G06F 17/50
Reading or recognising printed or written characters or recognizing patterns, e.g. fingerprints, which is covered by subclass	G06K
Modification of image data to allow display using multiple viewports	G09G
Circuits for generating functions for visual indicators	G09G
Arrangements or circuits for control of indicating devices	G09G
Scanning of documents or the like in pictorial communication	H04N

## G06T7/00

### Definition statement

Delete: All of the existing bulleted statements in the Definition statement section.

Insert: The following replacement bulleted statements.

- Analysis of motion, i.e. determining motion of an image subject, or of the camera having acquired the images; Tracking; Change detection; e.g. by block matching, feature-based methods, gradient-based methods, hierarchical or stochastic approaches, motion estimation from a sequence of stereo images.
- Analysis of texture, i.e. analysis of colour or intensity features which represent a perceived image texture, e.g. based on statistical or structural descriptions.
- Analysis of geometric attributes, e.g. area, perimeter, diameter, volume, convexity, concavity, centre of gravity, moments or symmetry.
- Analysis of captured images to determine intrinsic or extrinsic camera parameters, i.e. camera calibration; Calibration of stereo cameras, e.g. determining the transformation between left and right camera coordinate systems.
- Computational analysis of images to determine information, e.g. parameters or characteristics, therefrom.
- Inspection-detection on images, e.g. flaw detection; Industrial image inspection using e.g. a design-rule based approach or an image reference. Industrial image inspection checking presence / absence; Biomedical image inspection.
- Segmentation, i.e. partitioning an image into regions, or edge detection, i.e. detection of edge features in an image, e.g. involving probabilistic or graph-based approaches, deformable models, morphological operators, transform domain-based approaches or the use of more than two images.
- Motion-based segmentation.
- Determination of transform parameters for the alignment of images, i.e. image registration, e.g. by correlation-, feature- or transform domain-based or statistical approaches.
- Depth or shape recovery, i.e. determination of scene depth parameters by consideration of image characteristics; Depth or shape recovery

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from shading, specularities, texture, perspective effects, e.g. vanishing points, or line drawings; Depth or shape recovery from multiple images involving amongst others contours, focus, motion, multiple light sources, photometric stereo or stereo images.

- Determining the position or orientation of objects, e.g. by feature- or transform domain-based or statistical approaches.
- Determination of image colour characteristics.

## Relationships with other classification places

Delete: The existing paragraph in Relationships with other classification places.

Insert: The following replacement paragraph.

[G06T7/00](#) covers the details of image analysis algorithms, insofar as it deals with the related image processing algorithms per se. Documents which merely mention the general use of image analysis, without details of the underlying image analysis algorithms, are classified in the application place. Where the image analysis is functionally linked and restricted to specific image acquisition or display hardware or processes, it is classified in the application place; otherwise, it is classified in [G06T7/00](#). Where the essential technical characteristics relate both to the image analysis detail *and* to its particular use or special adaptation, classification is made in both [G06T7/00](#) and the application place.

Insert: The following new Application-oriented references section.

### Application-oriented references

*Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:*

Computerised tomographs	<a href="#">A61B6/03</a>
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Signal processing for Nuclear Magnetic Resonance (NMR) imaging systems	G01R33/54
Methods or arrangements for reading or recognising printed or written characters or for recognising patterns, e.g. scene recognition, handwriting recognition, optical character recognition, document recognition, face recognition, biometric identification	G06K9/00
Scanning, transmission or reproduction of documents or the like	H04N1/00
Transforming light or analogous information into electric information using solid-state image sensors	H04N5/335
Stereoscopic television systems	H04N13/00
Methods of arrangements for coding, decoding, compressing or decompressing digital video signals	H04N19/00

Insert: The following new Informative references section.

### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Processor architectures; Processor configuration, e.g. pipelining	G06T1/20
Processing seismic data	G01V1/28
Bioinformatics	G06F19/10
Medical informatics	G06F19/30
Image Acquisition	G06T1/0007

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Delete: The entire existing Limiting references section.

### **Limiting references**

*This group does not cover*

Processing seismic data	<a href="#">G01V1/28</a>
Bioinformatics	<a href="#">G06F19/10</a>
Medical informatics	<a href="#">G06F19/30</a>

### **Special rules of classification**

Delete: In the existing first paragraph in the Special Rules section the following text:

This group

Insert: The following symbol (replacement text) for "This group".

[G06T7/00](#)

Insert: The following text as the **new FIRST** paragraph in Special Rules.

Where the essential technical characteristics of the invention relate both to the image analysis detail and to its particular use or special adaptation, classification is made in both [G06T7/00](#) and the relevant application place in other subclasses.

Delete: The following two existing paragraphs from the Special Rules section.

Whenever possible, additional information should be classified using one or more of the Indexing Codes from the ranges of G06T2200/00(see FCR document re. G06T) or G06T2207/00.

If a document contains considerable contribution within the scope of another group, the document should be considered for classification in this group. In particular, the groups mentioned under "Informative References" in G06T 7/00 or one of its subgroups should be considered.

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Insert: The following replacement paragraph for the two deleted paragraphs

Additional information should be classified using one or more of the Indexing Codes from the ranges of [G06T2200/00](#) or [G06T2207/00](#). Their use is obligatory.

Delete: In the Special rules section, in the last paragraph which has two bulleted statements, the following text.

*In the **first** bulleted statement, delete this text:*

see G06T 1/20 for processor architectures

*Replace the deleted text with the following:*

if not provided for elsewhere

*In the **second** bulleted statement, insert at the beginning of the statement before "MPEG7" the following text:*

Extraction of

## Glossary of terms

Delete: The first row in the Glossary of Terms section.

CAD	Computer Aided Detection
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Delete: The following existing text in the fourth row in the Glossary of Terms section.

Treatment of the images of exactly two cameras in a pairwise manner

Insert: The following replacement text in the fourth row.

Treatment of two images, e.g. from two cameras or a single camera that is displaced, in a pairwise manner

## Synonyms and Keywords

Insert: The following two new rows in the Synonyms and Keywords section.

CAD	Computer-Aided Detection
SLAM	Simultaneous Localization and Mapping

## G06T7/20

### Definition statement

Insert: The following new text as the first bulleted statement in the Definition statement section.

- Image analysis algorithms for determining motion of an image subject, or of the camera having acquired the images. Determination of scene movement and between image frames, e.g. Change detection

Delete: The following two existing bulleted statements in the Definition statement section.

- Change detection
- Sports events analysis, movement of players (add the Indexing Code G06T 2207/30221: Sports; Sports image)

Delete: The text shown below (in parentheses) from the bulleted statement that begins with this text: "Determining camera ego-Motion".

(add the Indexing Code G06T2207/30244 Camera pose)

Delete: The text shown below (in parentheses) from the bulleted statement that begins with this text: "Medical motion analysis, e.g. of the left ventricle of the heart".

(add the Indexing Code G06T2207/30048 Heart; Cardiac)

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Delete: The text shown below (in parentheses) from the bulleted statement that begins with this text: "Trajectory representation".

(add the Indexing Code: G06T2207/30241 Trajectory)

## References

Insert: The following new Application-oriented references section/table.

### Application-oriented references

*Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:*

Gesture recognition	<a href="#">G06K9/00335</a>
Scene recognition	<a href="#">G06K9/00624</a>
Recognising video content	<a href="#">G06K9/00711</a>
Recognising scenes under surveillance	<a href="#">G06K9/00771</a>
Recognising scenes perceived from a vehicle	<a href="#">G06K9/00791</a>
Recognising scenes inside a vehicle	<a href="#">G06K9/00832</a>
Burglar, theft or intruder alarms using cameras and image comparison	<a href="#">G08B13/196</a>

**Informative references**

Insert: In the existing Informative references section, the following new four rows:

Determination of transform parameters for the alignment of images, i.e. image registration	G06T7/30
Depth or shape recovery from motion	G06T7/579
Determining position or orientation of objects	G06T7/70
Surveillance systems using closed-circuit television systems (CCTV)	H04N7/18

Delete: From the existing Informative references section the following three rows.

Image registration	G06T 7/30
Gesture recognition	G06K 9/00335
Scene recognition	G06K 9/00624

Insert: The following new Special rules section.

**Special rules of classification**

For camera pose, Indexing Code G06T2207/30244 should be added.  
 For heart, cardiac, Indexing Code G06T2207/30048 should be added.  
 For trajectory details, Indexing Code G06T2207/30241 should be added. For sports video, sports image, Indexing Code G06T2207/30221 should be added.

**G06T7/40**

Insert: The following new Definition statement section.

**Definition statement**

*This place covers:*

Analysis of the spatial arrangement of image colour or intensity characteristics representative of a perceived image texture.

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## Informative references

Insert: In the existing Informative references section, the following three new rows.

Depth or shape recovery from shading	<a href="#">G06T7/507</a>
Filling a planar surface by adding texture in 2D image generation	<a href="#">G06T11/40</a>
Texture mapping in 3D image rendering	<a href="#">G06T15/04</a>

## G06T7/60

Insert: The following new Definitions statement section.

### Definition statement

*This place covers:*

- Analysis of image subjects to determine geometric attributes thereof, e.g. area, centre of mass, perimeter, diameter or volume.
- Ellipse detection

Insert: The following new Application-oriented references section.

### Application-oriented references

*Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:*

Extraction of image features for pattern recognition by deriving geometrical properties of the whole image	<a href="#">G06K9/52</a>
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## Informative references

Insert: **After** the word “arrangements” shown in the existing row below, the following word:

characterised

Measuring arrangements by the use of optical means	G01B11/00
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Delete: The following existing row from the Informative references section.

Extracting geometrical properties from the whole image as recognition features	G06K9/52
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## Special rules of classification

Delete: The entire Special rules section.

### Special rules of classification

The classification symbol [G06T7/60](#) is allocated to documents concerning: Ellipse detection