CPC COOPERATIVE PATENT CLASSIFICATION

G06T IMAGE DATA PROCESSING OR GENERATION, IN GENERAL(specially adapted for particular applications, see the relevant subclasses, e.g. G06K, G09G, H04N)

NOTE

This subclass covers:
- arrangements for geometrically modelling objects, whether the final model is used for display of an image of the object or for some other purpose, such as manufacture of a corresponding object;
- arrangements for analysing the geometric attributes of an image of an object.

This subclass does not cover:
- reading or recognising printed or written characters or recognising patterns, e.g. fingerprints, which is covered by subclass G06K;
- modification of image data to allow display using multiple viewports, which is covered by subclass G09G;
- circuits for generating functions for visual indicators, which are covered by subclass G09G;
- scanning of documents or the like in pictorial communication, which is covered by subclass H04N.

WARNING

The following IPC groups are not used in the CPC scheme. Subject matter covered by these groups is classified in the following CPC groups:
G06T 1/40 covered by G06T 1/20

G06T 1/00 General purpose image data processing

G06T 1/0007 . {Image acquisition}

G06T 1/0014 . {Image feed-back for automatic industrial control, e.g. robot with camera(robots B25J 19/023)}

G06T 1/0021 . {Image watermarking}

G06T 1/0028 . . {Adaptive watermarking, e.g. Human Visual System (HVS)-based watermarking}

G06T 1/0035 . . . {Output size adaptive watermarking}

G06T 1/0042 . . {Fragile watermarking, e.g. so as to detect tampering}

G06T 1/005 . . {Robust watermarking, e.g. average attack or collusion attack resistant}

G06T 1/0057 . . . {Compression invariant watermarking}

G06T 1/0064 . . . {Geometric transfor invariant watermarking, e.g. affine transform invariant}

G06T 1/0071 . . . {using multiple or alternating watermarks}

G06T 1/0078 . . . {using multiple thresholds}

G06T 1/0085 . . {Time domain based watermarking, e.g. watermarks spread over several images}

G06T 1/0092 . . {Payload characteristic determination in a watermarking scheme, e.g. number of bits to be embedded}

G06T 1/20 . Processor architectures; Processor configuration, e.g. pipelining(architectures of general purpose stored programme computers G06F 15/76)

G06T 1/60 . Memory management

G06T 3/00 Geometric image transformation in the plane of the image, e.g. from bit-mapped to bit-mapped creating a different image

G06T 3/0006 . {Affine transformations(G06T 3/4038 , G06T 3/0068 take precedence)}

G06T 3/0012 . {Context preserving transformation, e.g. by using an importance map(G06T 3/0062 takes precedence)}

G06T 3/0018 . . {Fisheye, wide-angle transformation}

G06T 3/0025 . . {Detail-in-context presentation(G06T 3/0018 takes precedence)}

G06T 3/0031 . {for topological mapping of a higher dimensional structure on a lower dimensional surface}

G06T 3/0037 . . {Reshaping or unfolding a 3D tree structure onto a 2D plane}

G06T 3/0043 . . {Surface of revolution to planar image transformation}

G06T 3/005 . {for projecting an image on a non-planar surface, e.g. a geodetic screen}

G06T 3/0056 . {the transformation method being selected according to the characteristics of the input image}

G06T 3/0062 . {Panospheric to cylindrical image transformation}

G06T 3/0068 . {for image registration, e.g. elastic snapping}

G06T 3/0075 . . {using affine transformations}

G06T 3/0081 . . {by elastic snapping}

G06T 3/0087 . {Spatio-temporal transformations, e.g. video cubism}

G06T 3/0093 . {for image warping, i.e. transforming by individually repositioning each pixel}

G06T 3/20 . Linear translation of a whole image or part thereof, e.g. panning

G06T 3/40 . Scaling the whole image or part thereof

G06T 3/4007 . . {Interpolation-based scaling, e.g. bilinear interpolation(G06T 3/4015 , G06T 3/403 take precedence)}

G06T 3/4015 . . {Demosaicing, e.g. colour filter array [CFA}, Bayer pattern]

G06T 3/4023 . . {Decimation- or insertion-based scaling, e.g. pixel or line decimation}

G06T 3/403 . . {Edge-driven scaling}

G06T 3/4038 . . {for image mosaicing, i.e. plane images composed of plane sub-images}

G06T 3/4046 . . {using neural networks}

G06T 3/4053 . . {Super resolution, i.e. output image resolution higher than sensor resolution}

G06T 3/4061 . . . {by injecting details from a different spectral band}

G06T 3/4069 . . . {by subpixel displacement}

G06T 3/4076 . . . {by iteratively correcting the provisional high resolution image using the original low-resolution image}

G06T 3/4084 . . {Transform-based scaling, e.g. FFT domain scaling}

G06T 3/4092 . . {Image resolution transcoding, e.g. client/server architecture}

G06T 3/60 . Rotation of a whole image or part thereof

G06T 3/602 . . {Block rotation, e.g. by recursive reversing or rotating}

G06T 3/604 . . {using a CORDIC [COordinate Rotation DIgital Compute}device]

G06T 3/606 . . {Rotation by memory addressing or mapping}

G06T 3/608 . . {Skewing or deskewing, e.g. by two-pass or three-pass rotation}

G06T 5/00 **Image enhancement or restoration, e.g. from bit-mapped to bit-mapped creating a similar image**

G06T 5/001 . {Image restoration}

G06T 5/002 . . {Denoising; Smoothing(noise processing or correction adapted to be used in an image pickup device containing and electronic image sensor H04N 5/217 , H04N 5/357 to H04N 5/365)}

WARNING

Not complete pending reclassification; see also group G06T 5/001

G06T 5/003 . . {Deblurring; Sharpening(vibration or motion blur correction for cameras comprising an electronic image sensor H04N 5/23264)}

WARNING

Not complete pending reclassification; see also group G06T 5/001

G06T 5/004 . . . {Unsharp masking}

WARNING

Not complete pending reclassification; see also group G06T 5/001

G06T 5/005 . . {Retouching; Inpainting; Scratch removal(detecting, correction, reducing or removing defects, e.g. non-responsive pixels of solid state image sensors H04N 5/367 , scratch removal for cinematographic films scanned by electronic image sensor H04N 5/253)}

WARNING

Not complete pending reclassification; see also group G06T 5/001

G06T 5/006 . {Geometric correction(detecting, correcting, reducing or removing artefacts resulting only from the lens unit, e.g. flare, shading, vignetting or "cos4" H04N 5/3572 , correction of chromatic aberrations adapted to be used in an image pickup device containing and electronic image sensor H04N 9/045)}

G06T 5/007 . {Dynamic range modification(applied in cameras using an electronic image sensor H04N 5/2355 , H04N 5/2356)}

WARNING

Not complete pending reclassification; see also groups G06T 5/001 and G06T 5/40

G06T 5/008 . . {Local, e.g. shadow enhancement}

WARNING

Not complete pending reclassification; see also group G06T 5/001

G06T 5/009 .. {Global, i.e. based on properties of the image as a whole(applied in cameras using an electronic image sensor H04N 5/23229 , H04N 5/235)}

WARNING

Not complete pending reclassification; see also group G06T 5/40

G06T 5/10 . by non-spatial domain filtering{(applied in cameras using an electronic image sensor H04N 5/23229 , H04N 5/235 , H04N 5/253 , H04N 5/367)}

WARNING

Not complete pending reclassification; see also group G06T 5/001

G06T 5/20 . by the use of local operators{(applied in cameras using an electronic image sensor H04N 5/23229 , H04N 5/235 , H04N 5/253 , H04N 5/367)}

G06T 5/30 .. Erosion or dilatation, e.g. thinning

G06T 5/40 . by the use of histogram techniques{(applied in cameras using an electronic image sensor H04N 5/23229 , H04N 5/235)}

G06T 5/50 . by the use of more than one image, e.g. averaging, subtraction{(applied in cameras using an electronic image sensor H04N 5/23229 , H04N 5/235)}

G06T 7/00 **Image analysis, e.g. from bit-mapped to non bit-mapped**

G06T 7/0002 . {Inspection of images, e.g. flaw detection(G06T 7/004 takes precedence)}

WARNING

This group is being reorganised in the 5 following sub-groups

G06T 7/0004 .. {Industrial image inspection}

G06T 7/0006 ... {using a design-rule based approach}

G06T 7/0008 ... {checking presence/absence}

G06T 7/001 ... {using an image reference approach(image matching for pattern recognition or image matching in general G06K 9/6203)}

G06T 7/0012 .. {Biomedical image inspection}

WARNING

Groups **G06T/00B2R** and G06T 7/0016 are not complete pending reclassification. See also this group

G06T 7/0014 ... {using an image reference approach(image matching for pattern recognition or image matching in general G06K 9/6203)}

G06T 7/0016 .... {involving temporal comparison(change detection in general G06T 7/20)}

G06T 7/0018 . {Camera calibration, e.g. determining intrinsic or extrinsic parameters}

G06T 7/002 .. {Stereo camera calibration, e.g. determination of the transformation between left camera coordinate system and right camera coordinate system}

G06T 7/0022 . {Determining parameters from multiple pictures(depth or shape from stereo images G06T 7/0075 ; depth or shape from multiple images G06T 7/0065 ; stereo camera calibration G06T 7/002)}

G06T 7/0024 .. {Registration of images, e.g. alignment of images(image matching for pattern recognition or image matching in general G06K 9/6203)}

G06T 7/0026 ... {using correlation-based methods}

G06T 7/0028 ... {using feature-based methods}

G06T 7/003 .... {involving reference images or patches(image matching for pattern recognition or image matching in general G06K 9/6203)}

G06T 7/0032 .... {involving models(model matching for pattern recognition G06K 9/6204 , G06K 9/6878)}

G06T 7/0034 ... {using statistical methods(image matching by comparing statistics of regions for pattern recognition G06K 9/6212)}

G06T 7/0036 ... {using transform-domain based approaches}

G06T 7/0038 ... {Registration of image sequences}

G06T 7/004 . {Determining position or orientation of objects}

G06T 7/0042 .. {using feature-based methods}

G06T 7/0044 ... {involving reference images or patches(image matching for pattern recognition or image matching in general G06K 9/6203)}

G06T 7/0046 ... {involving models(model matching for pattern recognition G06K 9/6204 , G06K 9/6878)}

G06T 7/0048 .. {using statistical methods(image matching by comparing statistics of regions for pattern recognition G06K 9/6212)}

G06T 7/0051 . {Depth or shape recovery}

G06T 7/0053 .. {from shading}

G06T 7/0055 .. {from specularities}

G06T 7/0057 .. {from laser ranging and structured images, e.g. interferometry(image acquisition and arrangements for measuring contours or curvatures of an object by projecting a pattern, thereupon G01B 11/25)}

G06T 7/0059 .. {from texture}

G06T 7/0061 .. {from perspective effects, e.g. using vanishing points}

G06T 7/0063 .. {from line drawings}

G06T 7/0065 .. {from multiple images}

G06T 7/0067 ... {from contours}

G06T 7/0069 ... {from focus}

G06T 7/0071 ... {from motion}

WARNING

Not complete pending reclassification; see also group G06T 7/20

G06T 7/0073 ... {from multiple light sources, e.g. photometric stereo}

G06T 7/0075 ... {from stereo images}

G06T 7/0077 .... {from three or more stereo images}

G06T 7/0079 . {Segmentation or edge detection(image analysis based on texture or colour features G06T 7/40 ; motion-based segmentation G06T 7/2006 ; separation of touching or overlapping patterns for pattern recognition G06K 9/34 ; extraction of features or characteristics of the image for pattern recognition G06K 9/46)}

G06T 7/0081 .. {Region-based segmentation} (image analysis based on texture or colour features G06T 7/40 ; separation of touching or overlapping patterns by cutting or merging for pattern recognition G06K 9/342 ; quantising the analogue image signal for pattern recognition G06K 9/38 ; extraction of features or characteristics of the image related to colour for pattern recognition G06K 9/4652)

G06T 7/0083 .. {Edge-based segmentation(detecting partial patterns or configurations G06K 9/4604)}

G06T 7/0085 .. {Edge detection(detecting partial patterns or configurations G06K 9/4604)}

G06T 7/0087 .. {involving probabilistic approaches, e.g. Markov Random Field [MRF}modeling(Markov models or related models or networks embedding Markov models for pattern recognition G06K 9/6297 ; classification techniques based on a parametric, e.g. probabilistic, model G06K 9/6277 ; detecting partial patterns or configurations by analysing connectivity relationship of elements of the pattern G06K 9/4638)]

G06T 7/0089 .. {involving deformable models, e.g. active contour(pattern recognition techniques involving a deformation of the sample or reference pattern or elastic matching G06K 9/6206)}

G06T 7/0091 .. {involving morphological operators(combinations of preprocessing functions using a local operator for pattern recognition G06K 9/56)}

G06T 7/0093 .. {involving graph-based approaches(non-hierarchical partitioning techniques based on graph theory for pattern recognition G06K 9/6224)}

G06T 7/0095 .. {involving transform domain approaches(detecting partial patterns, e.g. edges or contours, using the Hough transform for pattern recognition G06K 9/4633)}

G06T 7/0097 .. {involving the use of two or more images}

G06T 7/20 . Analysis of motion {(movement detection in television systems H04N 5/144; motion estimation for digital video signal compression H04N 19/51; recognizing scenes under surveillance and traffic patterns G06K 9/00771, G06K 9/00785)}

WARNING

This group is being reorganised. Documents dealing with shape from motion are reclassified to G06T 7/0071 and a sub-group G06T 7/2006 is created

G06T 7/2006 .. {Motion-based segmentation}

WARNING

Not complete pending reclassification; see also group G06T 7/20

G06T 7/2013 .. {using block-matching}

G06T 7/202 ... {using full search}

G06T 7/2026 ... {using non-full search, e.g. three step search}

G06T 7/2033 .. {using feature-based methods, e.g. corners, segments}

G06T 7/204 ... {involving reference images or patches(image matching for pattern recognition or image matching in general G06K 9/6203)}

WARNING

Not complete pending reclassification; see also group G06T 7/20

G06T 7/2046 . . . {involving models(model matching for pattern recognition G06K 9/6204 , G06K 9/6878)}

WARNING

Not complete pending reclassification; see also group G06T 7/20

G06T 7/2053 . . {involving subtraction of pictures}

G06T 7/206 . . {using transform domain based approaches, e.g. Fourier}

G06T 7/2066 . . {using gradient-based methods}

G06T 7/2073 . . {Motion estimation over a hierarchy of resolutions}

G06T 7/208 . . {involving a stochastic approach, e.g. Kalman filter}

G06T 7/2086 . . {Computing motion from a sequence of stereo images}

G06T 7/2093 . . [Multi-camera tracking]

WARNING

Not complete pending reclassification; see also group G06T 7/20

G06T 7/40 . Analysis of texture{(depth or shape from texture G06T 7/0059)}

G06T 7/401 . . {based on statistical texture description}

G06T 7/402 . . . {using transform-domain based approaches}

G06T 7/403 . . . {using image operators, e.g. filter, edge density, local histograms}

G06T 7/404 . . . {using co-occurrence matrix computation}

G06T 7/405 . . . {using random Fields}

G06T 7/406 . . . {using fractals}

G06T 7/407 . . {based on structural texture description, i.e. primitives and placement rules}

G06T 7/408 . . {Color analysis}

G06T 7/60 . Analysis of geometric attributes, e.g. area, center of gravity or perimeter, from an image

G06T 7/602 . . {Area, perimeter, diameter or volume}

G06T 7/604 . . {Convexity or concavity}

G06T 7/606 . . {Center of gravity or moments(moments specific for pattern recognition, e.g. Zernike moments G06K 9/525)}

G06T 7/608 . . {Symmetry}

G06T 9/00 **Image coding, e.g. from bit-mapped to non bit-mapped**({ H04N 1/00 , H04N 19/00 take precedence; }compression in general H03M; compression for image communication H04N)

G06T 9/001 . {Model-based coding, e.g. wire frame(see provisionally also G06T 9/00)}

G06T 9/002 . {using neural networks}

G06T 9/004 . {Predictors, e.g. intraframe, interframe coding(see provisionally also G06T 9/00)}

G06T 9/005 . {Statistical coding, e.g. Huffman, run length coding(see provisionally also G06T 9/00)}

G06T 9/007 . {Transform coding, e.g. discrete cosine transform(see provisionally also G06T 9/00)}

G06T 9/008 . {Vector quantisation(see provisionally also G06T 9/00)}

G06T 9/20 . Contour coding, e.g. using detection of edges

G06T 9/40 . Tree coding, e.g. quadtree, octree(see provisionally also G06T 9/00)

G06T 11/00 **2D [Two Dimensional] image generation**

G06T 11/001 . {Texturing; Colouring; Generation of texture or colour}

G06T 11/003 . {Reconstruction from projections, e.g. tomography}

WARNING

As from 06.2011 documents of this group are being continuously reclassified to its subgroups

G06T 11/005 . . {Specific pre-processing for tomographic reconstruction, e.g. calibration, source positioning, rebinning, scatter correction, retrospective gating}

WARNING

Not complete pending the completion of a reclassification; see also **G11/00T**

G06T 11/006 . . {Inverse problem, transformation from projection-space into object-space, e.g. transform methods, back-projection, algebraic methods}

WARNING

Not complete pending the completion of a reclassification; see also G06T 11/003

G06T 11/008 . . {Specific post-processing after tomographic reconstruction, e.g. voxelisation, metal artifact correction}

WARNING

Not complete pending the completion of a reclassification; see also G06T 11/003

G06T 11/20 . Drawing from basic elements, e.g. lines or circles

G06T 11/203 . . {Drawing of straight lines or curves}

G06T 11/206 . . {Drawing of charts or graphs}

G06T 11/40 . Filling a planar surface by adding surface attributes, e.g. colour or texture

G06T 11/60 . Editing figures and text; Combining figures or text

G06T 11/80 . Creating or modifying a manually drawn or painted image using a manual input device, e.g. mouse, light pen, direction keys on keyboard

G06T 13/00 **Animation**

G06T 13/20 . 3D [Three Dimensional] animation

G06T 13/205 . . {driven by audio data}

G06T 13/40 . . of characters, e.g. humans, animals or virtual beings

G06T 13/60 . . of natural phenomena, e.g. rain, snow, water or plants

G06T 13/80 . 2D [Two Dimensional] animation, e.g. using sprites

G06T 15/00 **3D [Three Dimensional] image rendering**

G06T 15/005 . {General purpose rendering architectures}

G06T 15/02 . Non-photorealistic rendering

G06T 15/04 . Texture mapping

G06T 15/06 . Ray-tracing

G06T 15/08 . Volume rendering

G06T 15/10 . Geometric effects

G06T 15/20 . . Perspective computation

G06T 15/205 . . . {Image-based rendering}

WARNING

This group is not complete pending a reorganisation. See also G06T 15/00

G06T 15/30 . . Clipping

G06T 15/40 . . Hidden part removal

G06T 15/405 . . . {using Z-buffer}

G06T 15/50 . Lighting effects

G06T 15/503 . . {Blending, e.g. for anti-aliasing}

G06T 15/506 . . {Illumination models}

G06T 15/55 . . Radiosity

G06T 15/60 . . Shadow generation

G06T 15/80 . . Shading

G06T 15/83 . . . Phong shading

G06T 15/87 . . . Gouraud shading

G06T 17/00 **Three dimensional [3D] modelling, e.g. data description of 3D objects**

G06T 17/005 . {Tree description, e.g. octree, quadtree}

G06T 17/05 . Geographic models

G06T 17/10 . Constructive solid geometry (CSG) using solid primitives, e.g. cylinders, cubes

G06T 17/20 . Finite element generation, e.g. wire-frame surface description,{tesselation}

G06T 17/205 . . {Re-meshing}

G06T 17/30 . Polynomial surface description

G06T 19/00 **Manipulating 3D models or images for computer graphics**

WARNING

As from August 1, 2011, documents relating to subject matter covered by subgroups G06T 19/003, G06T 19/006 are continuously reclassified to said subgroups

G06T 19/003 . {Navigation within 3D models or images}

WARNING

This group is not complete pending reclassification; see also group G06T 19/00

G06T 19/006 . {Mixed reality(object pose determination, tracking or camera calibration for mixed reality G06T 7/00)}

WARNING

This group is not complete pending reclassification; see also group G06T 19/00

G06T 19/20 . Editing of 3D images, e.g. changing shapes or colours, aligning objects or positioning parts

G06T 2200/00 Indexing scheme for image data processing or generation, in general

G06T 2200/04 . involving 3D image data

G06T 2200/08 . involving all processing steps from image acquisition to 3D model generation

G06T 2200/12 . involving antialiasing

G06T 2200/16 . involving adaptation to the client's capabilities

G06T 2200/21 . involving computational photography

G06T 2200/24 . involving graphical user interfaces [GUIs]

G06T 2200/28 . involving image processing hardware

G06T 2200/32 . involving image mosaicing

G06T 2200/36 . Review paper; Tutorial; Survey

G06T 2201/00 General purpose image data processing

G06T 2201/005 . Image watermarking

G06T 2201/0051 . . Embedding of the watermark in the spatial domain

G06T 2201/0052 . . Embedding of the watermark in the frequency domain

G06T 2201/0053 . . Embedding of the watermark in the coding stream, possibly without decoding; Embedding of the watermark in the compressed domain

G06T 2201/0061 . . Embedding of the watermark in each block of the image, e.g. segmented watermarking

G06T 2201/0062 . . Embedding of the watermark in text images, e.g. watermarking text documents using letter skew, letter distance or row distance

G06T 2201/0063 . . in relation to collusion attacks, e.g. collusion attack resistant

G06T 2201/0064 . . for copy protection or copy management, e.g. CGMS, copy only once, one-time copy

G06T 2201/0065 . . Extraction of an embedded watermark; Reliable detection

G06T 2201/0081 . . whereby both original and watermarked images are required at decoder, e.g. destination-based, non-blind, non-oblivious

G06T 2201/0083 . . whereby only watermarked image required at decoder, e.g. source-based, blind, oblivious

G06T 2201/0201 . . whereby only tamper or origin are detected and no embedding takes place

G06T 2201/0202 . . whereby the quality of watermarked images is measured; Measuring quality or performance of watermarking methods; Balancing between quality and robustness

G06T 2201/0203 . . whereby the image with embedded watermark is reverted to the original condition before embedding, e.g. lossless, distortion-free or invertible watermarking

G06T 2201/0601 . . whereby calibration information is embedded in the watermark, e.g. a grid, a scale, a list of transformations

G06T 2207/00 Indexing scheme for image analysis or image enhancement

G06T 2207/10 . Image acquisition modality

G06T 2207/10004 . . Still image; Photographic image

G06T 2207/10008 . . . from scanner, fax or copier

G06T 2207/10012 . . . Stereo images

G06T 2207/10016 . . Video; Image sequence

G06T 2207/10021 . . . Stereoscopic video; Stereoscopic image sequence

G06T 2207/10024 . . Color image

G06T 2207/10028 . . Range image; Depth image; 3D point clouds

G06T 2207/10032 . . Satellite or aerial image; Remote sensing

G06T 2207/10036 . . . Multispectral image; Hyperspectral image

G06T 2207/10041 . . . Panchromatic image

G06T 2207/10044 . . . Radar image

G06T 2207/10048 . . Infrared image

G06T 2207/10052 . . Images from lightfield camera

G06T 2207/10056 . . Microscopic image

G06T 2207/10061 . . . from scanning electron microscope

G06T 2207/10064 . . Fluorescence image

G06T 2207/10068 . . Endoscopic image

G06T 2207/10072 . . Tomographic images

G06T 2207/10076 . . . 4D tomography; Time-sequential 3D tomography

G06T 2207/10081 . . . Computed x-ray tomography [CT]

G06T 2207/10084 . . . Hybrid tomography; Concurrent acquisition with multiple different tomographic modalities

G06T 2207/10088 . . . Magnetic resonance imaging [MRI]

G06T 2207/10092 . . . . Diffusion tensor magnetic resonance imaging [DTI]

G06T 2207/10096 . . . . Dynamic contrast-enhanced magnetic resonance imaging [DCE-MRI]

G06T 2207/10101 . . . Optical tomography; Optical coherence tomography [OCT]

G06T 2207/10104 . . . Positron emission tomography [PET]

G06T 2207/10108 . . . Single photon emission computed tomography [SPECT]

G06T 2207/10112 . . . Digital tomosynthesis [DTS]

G06T 2207/10116 . . X-ray image

G06T 2207/10121 . . . Fluoroscopy

G06T 2207/10124 . . . Digitally reconstructed radiograph [DRR]

G06T 2207/10128 . . . Scintigraphy
G06T 2207/10132 . . Ultrasound image
G06T 2207/10136 . . . 3D ultrasound image
G06T 2207/10141 . . Special mode during image acquisition
G06T 2207/10144 . . . Varying exposure
G06T 2207/10148 . . . Varying focus
G06T 2207/10152 . . . Varying illumination
G06T 2207/20 . Special algorithmic details
G06T 2207/20004 . . Adaptive image processing
G06T 2207/20008 . . . Globally adaptive
G06T 2207/20012 . . . Locally adaptive
G06T 2207/20016 . . Hierarchical, coarse-to-fine, multiscale or multiresolution image processing; Pyramid transform
G06T 2207/20021 . . Dividing image into blocks, subimages or windows
G06T 2207/20024 . . Filtering details
G06T 2207/20028 . . . Bilateral filtering
G06T 2207/20032 . . . Median filtering
G06T 2207/20036 . . Morphological image processing
G06T 2207/20041 . . . Distance transform
G06T 2207/20044 . . . Skeletonization; Medial axis transform
G06T 2207/20048 . . Transform domain processing
G06T 2207/20052 . . . Discrete cosine transform [DCT]
G06T 2207/20056 . . . Discrete and fast Fourier transform, [DFT, FFT]
G06T 2207/20061 . . . Hough transform
G06T 2207/20064 . . . Wavelet transform [DWT]
G06T 2207/20068 . . Projection on vertical or horizontal image axis
G06T 2207/20072 . . Graph-based image processing
G06T 2207/20076 . . Probabilistic image processing
G06T 2207/20081 . . Training; Learning
G06T 2207/20084 . . Artificial neural networks [ANN]
G06T 2207/20088 . . Trinocular vision calculations; trifocal tensor
G06T 2207/20092 . . Interactive image processing based on input by user
G06T 2207/20096 . . . Interactive definition of curve of interest
G06T 2207/20101 . . . Interactive definition of point of interest, landmark or seed
G06T 2207/20104 . . . Interactive definition of region of interest [ROI]
G06T 2207/20108 . . . Interactive selection of 2D slice in a 3D data set
G06T 2207/20112 . . Image segmentation details
G06T 2207/20116 . . . Active contour; Active surface; Snakes
G06T 2207/20121 . . . Active appearance model [AAM]
G06T 2207/20124 . . . Active shape model [ASM]

G06T 2207/20128 ... Atlas-based segmentation
G06T 2207/20132 ... Image cropping
G06T 2207/20136 ... Edge growing; Edge linking
G06T 2207/20141 ... Region-growing; Region merging; Connected component labeling
G06T 2207/20144 ... Foreground-background segmentation
G06T 2207/20148 ... Thresholding
G06T 2207/20152 ... Watershed segmentation
G06T 2207/20156 ... Automatic seed setting
G06T 2207/20161 ... Level set
G06T 2207/20164 ... Salient point detection; Corner detection
G06T 2207/20168 ... Radial search
G06T 2207/20172 .. Image enhancement details
G06T 2207/20182 ... Noise reduction or smoothing in the temporal domain; Spatio-temporal filtering
G06T 2207/20192 ... Edge enhancement; Edge preservation
G06T 2207/20201 ... Motion blur correction
G06T 2207/20204 ... Removing film grain; Adding simulated film grain
G06T 2207/20208 ... High dynamic range [HDR] image processing
G06T 2207/20212 .. Image combination
G06T 2207/20216 ... Image averaging
G06T 2207/20221 ... Image fusion; Image merging
G06T 2207/20224 ... Image subtraction
G06T 2207/20228 .. Disparity calculation for image-based rendering
G06T 2207/30 . Subject of image; Context of image processing
G06T 2207/30004 .. Biomedical image processing
G06T 2207/30008 ... Bone
G06T 2207/30012 .... Spine; Backbone
G06T 2207/30016 ... Brain
G06T 2207/30021 ... Catheter; Guide wire
G06T 2207/30024 ... Cell structures in vitro; Tissue sections in vitro
G06T 2207/30028 ... Colon; Small intestine
G06T 2207/30032 .... Colon polyp
G06T 2207/30036 ... Dental; Teeth
G06T 2207/30041 ... Eye; Retina; Ophthalmic
G06T 2207/30044 ... Fetus; Embryo
G06T 2207/30048 ... Heart; Cardiac
G06T 2207/30052 ... Implant; Prosthesis
G06T 2207/30056 ... Liver; Hepatic
G06T 2207/30061 ... Lung
G06T 2207/30064 .... Lung nodule
G06T 2207/30068 ... Mammography; Breast

G06T 2207/30072 . . . Microarray; Biochip, DNA array; Well plate
G06T 2207/30076 . . . Plethysmography
G06T 2207/30081 . . . Prostate
G06T 2207/30084 . . . Kidney; Renal
G06T 2207/30088 . . . Skin; Dermal
G06T 2207/30092 . . . Stomach; Gastric
G06T 2207/30096 . . . Tumor; Lesion
G06T 2207/30101 . . . Blood vessel; Artery; Vein; Vascular
G06T 2207/30104 . . . . Vascular flow; Blood flow; Perfusion
G06T 2207/30108 . . Industrial image inspection
G06T 2207/30112 . . . Baggage; Luggage; Suitcase
G06T 2207/30116 . . . Casting
G06T 2207/30121 . . . CRT, LCD or plasma display
G06T 2207/30124 . . . Fabrics; Textile; Paper
G06T 2207/30128 . . . Food products
G06T 2207/30132 . . . Masonry; Concrete
G06T 2207/30136 . . . Metal
G06T 2207/30141 . . . Printed circuit board [PCB]
G06T 2207/30144 . . . Printing quality
G06T 2207/30148 . . . Semiconductor; IC; Wafer
G06T 2207/30152 . . . Solder
G06T 2207/30156 . . . Vehicle coating
G06T 2207/30161 . . . Wood; Lumber
G06T 2207/30164 . . . Workpiece; Machine component
G06T 2207/30168 . . Image quality inspection
G06T 2207/30172 . . Centreline of tubular or elongated structure
G06T 2207/30176 . . Document
G06T 2207/30181 . . Earth observation
G06T 2207/30184 . . . Infrastructure
G06T 2207/30188 . . . Vegetation; Agriculture
G06T 2207/30192 . . . Weather; Meteorology
G06T 2207/30196 . . Human being; Person
G06T 2207/30201 . . . Face
G06T 2207/30204 . . Marker
G06T 2207/30208 . . . Marker matrix
G06T 2207/30212 . . Military
G06T 2207/30216 . . Redeye defect
G06T 2207/30221 . . Sports video; Sports image
G06T 2207/30224 . . . Ball; Puck
G06T 2207/30228 . . . Playing field

G06T 2207/30232 . . Surveillance
G06T 2207/30236 . . Traffic on road, railway or crossing
G06T 2207/30241 . . Trajectory
G06T 2207/30242 . . Counting objects in image
G06T 2207/30244 . . Camera pose
G06T 2207/30248 . . Vehicle exterior or interior
G06T 2207/30252 . . . Vehicle exterior; Vicinity of vehicle
G06T 2207/30256 . . . . Lane; Road marking
G06T 2207/30261 . . . . Obstacle
G06T 2207/30264 . . . . Parking
G06T 2207/30268 . . . Vehicle interior

G06T 2210/00 Indexing scheme for image generation or computer graphics
G06T 2210/04 . Architectural design, interior design
G06T 2210/08 . Bandwidth reduction
G06T 2210/12 . Bounding box
G06T 2210/16 . Cloth
G06T 2210/21 . Collision detection, intersection
G06T 2210/22 . Cropping
G06T 2210/24 . Fluid dynamics
G06T 2210/28 . Force feedback
G06T 2210/32 . Image data format
G06T 2210/36 . Level of detail
G06T 2210/41 . Medical
G06T 2210/44 . Morphing
G06T 2210/52 . Parallel processing
G06T 2210/56 . Particle system, point based geometry or rendering
G06T 2210/61 . Scene description
G06T 2210/62 . Semi-transparency
G06T 2210/64 . Weathering

G06T 2211/00 Image generation
G06T 2211/40 . Computed tomography
G06T 2211/404 . . Angiography
G06T 2211/408 . . Dual energy
G06T 2211/412 . . Dynamic
G06T 2211/416 . . Exact reconstruction
G06T 2211/421 . . Filtered back projection [FBP]
G06T 2211/424 . . Iterative
G06T 2211/428 . . Real-time
G06T 2211/432 . . Truncation

G06T 2211/436 . . Limited angle

G06T 2213/00 Indexing scheme for animation

G06T 2213/04 . Animation description language

G06T 2213/08 . Animation software package

G06T 2213/12 . Rule based animation

G06T 2215/00 Indexing scheme for image rendering

G06T 2215/06 . Curved planar reformation of 3D line structures

G06T 2215/08 . Gnomonic or central projection

G06T 2215/12 . Shadow map, environment map

G06T 2215/16 . Using real world measurements to influence rendering

G06T 2219/00 Indexing scheme for manipulating 3D models or images for computer graphics

G06T 2219/004 . Annotating, labelling

G06T 2219/008 . Cut plane or projection plane definition

G06T 2219/012 . Dimensioning, tolerancing

G06T 2219/016 . Exploded view

G06T 2219/021 . Flattening

G06T 2219/024 . Multi-user, collaborative environment

G06T 2219/028 . Multiple view windows (top-side-front-sagittal-orthogonal)

G06T 2219/20 . Indexing scheme for editing of 3D models

G06T 2219/2004 . . Aligning objects, relative positioning of parts

G06T 2219/2008 . . Assembling, disassembling

G06T 2219/2012 . . Colour editing, changing, or manipulating; Use of colour codes

G06T 2219/2016 . . Rotation, translation, scaling

G06T 2219/2021 . . Shape modification

G06T 2219/2024 . . Style variation