

**IMAGE PROCESSING APPARATUS, IMAGE PROCESSING PROGRAM,
AND IMAGE PROCESSING METHOD**

Abstract

5 An image processing apparatus (1) includes a numerical value receiving unit
(10), a transparency determination unit (20), a display color determination unit (30), and
a voxel display unit (40). The numerical value receiving unit (10) receives a numerical
value. The transparency determination unit (20) determines a transparency of each one
of a plurality of voxels each associated with a position in a three-dimensional space and
10 associated with a value of a state quantity of the three-dimensional space at that position,
based on the received numerical value and the value of the state quantity. The display
color determination unit (30) determines a display color of each voxel according to
display color information which defines the display color of the voxel in accordance
with the value of the state quantity. The voxel display unit (40) displays the voxel for
15 which the transparency and the display color have been determined on a display device
(220).

Fig. 1