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(21) International Application Number: PCT/AU98/00716 (22) International Filing Date: 2 September 1998 (02.09.98) (30) Priority Data: PO 8944 2 September 1997 (02.09.97) AU (71) Applicant (for all designated States except US): XENOTECH RESEARCH PTY. LTD. [AU/AU]; Suite 1 & 2, 41 Walters Drive, Osborne Park, W.A. 6017 (AU). (72) Inventor; and (75) Inventor/Applicant (for US only): HARMAN, Philip, Victor [AU/AU]; 45 Vantor Street, Scarborough, W.A. 6019 (AU). (74) Agent: WATERMARK PATENT & TRADEMARK ATTORNEYS; "Durack Centre", 4th floor, 263 Adelaide Terrace, Perth, W.A. 6000 (AU).	(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>	
(54) Title: IMAGE PROCESSING METHOD AND APPARATUS		
(57) Abstract An image conversion system for converting monoscopic images for viewing in three dimensions including: an input means (1) adapted to receive the monoscopic images; a preliminary analysis means to determine if there is any continuity between a first image and a second image of the monoscopic image sequence; a secondary analysis means (2) for receiving monoscopic images which have a continuity, and analysing the images to determine the speed and direction of motion, and the depth, size and position of objects; a first processing means (3) for processing the monoscopic images based on data received from the preliminary analysis means or the secondary analysis means; a second processing means capable of further processing images received from the first processing means; a transmission means (4) capable of transferring the processed images to a stereoscopic display system (5).		
<pre> graph TD L1[2D VIDEO INPUT] --> L2[IMAGE ANALYSIS] L2 --> L3[3D GENERATION 3D OPTIMISATION] L3 --> L4[3D MEDIA] L4 --> L5[3D DISPLAY] </pre> The flowchart illustrates a five-layer process for image conversion. It begins with '2D VIDEO INPUT' in Layer 1, followed by 'IMAGE ANALYSIS' in Layer 2. Layer 3 contains two steps: '3D GENERATION' and '3D OPTIMISATION'. This is followed by '3D MEDIA' in Layer 4, and finally '3D DISPLAY' in Layer 5. Arrows indicate a sequential flow from top to bottom.		