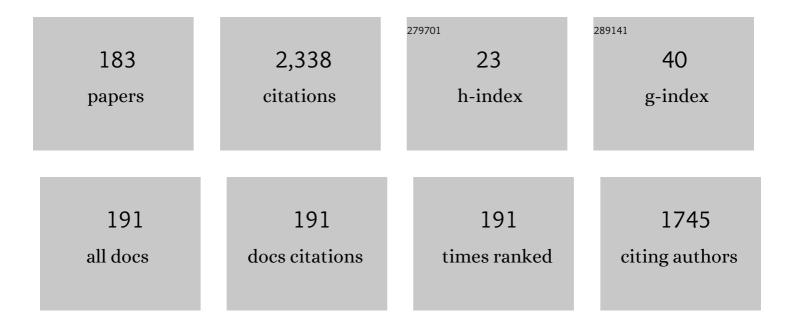
## Mateu Sbert

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/8217332/publications.pdf Version: 2024-02-01



| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Serious games for health. Entertainment Computing, 2013, 4, 231-247.   | 1.8 | 211       |
| 2  | Automatic View Selection Using Viewpoint Entropy and its Application to Image-Based Modelling.<br>Computer Graphics Forum, 2003, 22, 689-700.  | 1.8 | 139       |
| 3  | Importance-Driven Focus of Attention. IEEE Transactions on Visualization and Computer Graphics, 2006, 12, 933-940.   | 2.9 | 136       |
| 4  | A unified information-theoretic framework for viewpoint selection and mesh saliency. ACM<br>Transactions on Applied Perception, 2009, 6, 1-23.   | 1.2 | 119       |
| 5  | Informational Aesthetics Measures. IEEE Computer Graphics and Applications, 2008, 28, 24-34.   | 1.0 | 116       |
| 6  | Using a serious game to complement CPR instruction in a nurse faculty. Computer Methods and Programs in Biomedicine, 2015, 122, 282-291.   | 2.6 | 85        |
| 7  | Categorizing art: Comparing humans and computers. Computers and Graphics, 2009, 33, 484-495.   | 1.4 | 48        |
| 8  | Fast, realistic lighting for video games. IEEE Computer Graphics and Applications, 2003, 23, 54-64.  | 1.0 | 47        |
| 9  | Image Segmentation Using Information Bottleneck Method. IEEE Transactions on Image Processing, 2009, 18, 1601-1612.  | 6.0 | 44        |
| 10 | Multimodal Data Fusion Based on Mutual Information. IEEE Transactions on Visualization and<br>Computer Graphics, 2012, 18, 1574-1587.  | 2.9 | 44        |
| 11 | Automatic Transfer Functions Based on Informational Divergence. IEEE Transactions on Visualization and Computer Graphics, 2011, 17, 1932-1941.   | 2.9 | 42        |
| 12 | From obscurances to ambient occlusion: A survey. Visual Computer, 2009, 25, 181-196.   | 2.5 | 39        |
| 13 | Browsing and exploration of video sequences: A new scheme for key frame extraction and 3D visualization using entropy based Jensen divergence. Information Sciences, 2014, 278, 736-756. | 4.0 | 39        |
| 14 | Color Channel Transfer for Image Dehazing. IEEE Signal Processing Letters, 2019, 26, 1413-1417.  | 2.1 | 38        |
| 15 | An Integral Geometry Based Method for Fast Form-Factor Computation. Computer Graphics Forum, 1993, 12, 409-420.  | 1.8 | 36        |
| 16 | An Information Theory Framework for the Analysis of Scene Complexity. Computer Graphics Forum, 1999, 18, 95-106.   | 1.8 | 33        |
| 17 | Volumetric Ambient Occlusion for Real-Time Rendering and Games. IEEE Computer Graphics and Applications, 2010, 30, 70-79.  | 1.0 | 29        |
| 18 | Serious Games for e-Health Care. Gaming Media and Social Effects, 2014, , 127-146.   | 0.7 | 28        |

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| 19 | A Survey of Viewpoint Selection Methods for Polygonal Models. Entropy, 2018, 20, 370.   | 1.1 | 27        |
| 20 | Tsallis Mutual Information for Document Classification. Entropy, 2011, 13, 1694-1707.   | 1.1 | 26        |
| 21 | Global multipath Monte Carlo algorithms for radiosity. Visual Computer, 1996, 12, 47-61.  | 2.5 | 25        |
| 22 | Tsallis entropy-based information measures for shot boundary detection and keyframe selection.<br>Signal, Image and Video Processing, 2013, 7, 507-520. | 1.7 | 25        |
| 23 | High-Dimensional Normalized Mutual Information for Image Registration Using Random Lines. Lecture<br>Notes in Computer Science, 2006, , 264-271.        | 1.0 | 23        |
| 24 | Realtime automatic selection of good molecular views. Computers and Graphics, 2006, 30, 98-110.   | 1.4 | 21        |
| 25 | Viewpoint-based simplification using f-divergences. Information Sciences, 2008, 178, 2375-2388.   | 4.0 | 21        |
| 26 | Viewpoint-driven simplification using mutual information. Computers and Graphics, 2008, 32, 451-463.  | 1.4 | 21        |
| 27 | Medical Image Segmentation Based on Mutual Information Maximization. Lecture Notes in Computer Science, 2004, , 135-142.                                | 1.0 | 21        |
| 28 | Multiple importance sampling revisited: breaking the bounds. Eurasip Journal on Advances in Signal<br>Processing, 2018, 2018, .                         | 1.0 | 20        |
| 29 | Image Segmentation Using Excess Entropy. Journal of Signal Processing Systems, 2009, 54, 205-214.   | 1.4 | 19        |
| 30 | A novel approach for enhancing very dark image sequences. Signal Processing, 2014, 103, 309-330.  | 2.1 | 19        |
| 31 | Adaptive multiple importance sampling for general functions. Visual Computer, 2017, 33, 845-855.  | 2.5 | 19        |
| 32 | Hierarchical Monte Carlo Radiosity. Eurographics, 1998, , 259-268.  | 0.4 | 18        |
| 33 | Optimal combination of techniques in multiple importance sampling. , 2014, , .  |     | 16        |
| 34 | Real-time obscurances with color bleeding. , 2003, , .  |     | 15        |
| 35 | Combined Correlated and Importance Sampling in Direct Light Source Computation and Environment<br>Mapping. Computer Graphics Forum, 2004, 23, 585-593.  | 1.8 | 15        |
| 36 | Error and complexity of random walk Monte Carlo radiosity. IEEE Transactions on Visualization and<br>Computer Graphics, 1997, 3, 23-38.                 | 2.9 | 14        |

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| 37 | Image registration by compression. Information Sciences, 2010, 180, 1121-1133.  | 4.0 | 14        |
| 38 | A new approach for very dark video denoising and enhancement. , 2010, , .   |     | 14        |
| 39 | New Contrast Measures for Pixel Supersampling. , 2002, , 439-451.   |     | 14        |
| 40 | Shape complexity based on mutual information. , 0, , .  |     | 13        |
| 41 | Viewpoint-Based Ambient Occlusion. IEEE Computer Graphics and Applications, 2008, 28, 44-51.  | 1.0 | 13        |
| 42 | Viewpoint information channel for illustrative volume rendering. Computers and Graphics, 2010, 34, 351-360.                                   | 1.4 | 13        |
| 43 | Post-processing NPR effects for video games. , 2013, , .  |     | 13        |
| 44 | An Informationâ€Theoretic Observation Channel for Volume Visualization. Computer Graphics Forum, 2013, 32, 411-420.                           | 1.8 | 13        |
| 45 | Variance Analysis of Multiâ€sample and Oneâ€sample Multiple Importance Sampling. Computer Graphics<br>Forum, 2016, 35, 451-460.               | 1.8 | 13        |
| 46 | Trajectory Shape Analysis and Anomaly Detection Utilizing Information Theory Tools. Entropy, 2017, 19, 323.                                   | 1.1 | 13        |
| 47 | An information theoretic framework for image segmentation. , 0, , .   |     | 12        |
| 48 | Information Theory-Based Automatic Multimodal Transfer Function Design. IEEE Journal of Biomedical and Health Informatics, 2013, 17, 870-880. | 3.9 | 12        |
| 49 | Selecting Video Key Frames Based on Relative Entropy and the Extreme Studentized Deviate Test.<br>Entropy, 2016, 18, 73.                      | 1.1 | 12        |
| 50 | Multiple importance sampling characterization by weighted mean invariance. Visual Computer, 2018, 34, 843-852.                                | 2.5 | 12        |
| 51 | Compression-based Image Registration. , 2006, , .   |     | 11        |
| 52 | Energy-saving light positioning using heuristic search. Engineering Applications of Artificial<br>Intelligence, 2012, 25, 566-582.            | 4.3 | 11        |
| 53 | LISSA a serious game to teach CPR and use of AED. Resuscitation, 2014, 85, S72.   | 1.3 | 11        |
| 54 | Reducing complexity in polygonal meshes with view-based saliency. Computer Aided Geometric Design, 2014, 31, 279-293.                         | 0.5 | 11        |

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| 55 | Improving the Interval Ray Tracing of Implicit Surfaces. Lecture Notes in Computer Science, 2006, ,<br>655-664.                                      | 1.0 | 11        |
| 56 | Perception-Based Illumination Information Measurement and Light Source Placement. Lecture Notes in Computer Science, 2003, , 306-316.                | 1.0 | 11        |
| 57 | Weighted Importance Sampling Techniques for Monte Carlo Radiosity. Eurographics, 2000, , 35-46.  | 0.4 | 11        |
| 58 | Information Theory Tools for Image Processing. Synthesis Lectures on Computer Graphics and Animation, 2014, 6, 1-164.                                | 0.1 | 10        |
| 59 | 30 : 2: A Game Designed to Promote the Cardiopulmonary Resuscitation Protocol. International Journal of Computer Games Technology, 2016, 2016, 1-14. | 1.6 | 10        |
| 60 | Techniques for Computing Viewpoint Entropy of a 3D Scene. Lecture Notes in Computer Science, 2006, , 263-270.  | 1.0 | 10        |
| 61 | Fast Adaptive Selection of Best Views. Lecture Notes in Computer Science, 2003, , 295-305.   | 1.0 | 9         |
| 62 | Real-time Light Animation. Computer Graphics Forum, 2004, 23, 291-299.   | 1.8 | 9         |
| 63 | A necessary and sufficient condition for the inequality of generalized weighted means. Journal of<br>Inequalities and Applications, 2016, 2016, .    | 0.5 | 9         |
| 64 | Gaze Information Channel in Cognitive Comprehension of Poster Reading. Entropy, 2019, 21, 444.   | 1.1 | 9         |
| 65 | A Generalised-Mutual-Information-Based Oracle for Hierarchical Radiosity. Lecture Notes in Computer Science, 2007, , 105-113.                        | 1.0 | 9         |
| 66 | The Multi-Frame Lighting Method: A Monte Carlo Based Solution for Radiosity in Dynamic Environments. Eurographics, 1996, , 185-194.                  | 0.4 | 9         |
| 67 | Efficient reuse of paths for random walk radiosity. Computers and Graphics, 2008, 32, 65-81.   | 1.4 | 8         |
| 68 | Information Theory Tools for Computer Graphics. Synthesis Lectures on Computer Graphics and Animation, 2009, 4, 1-153.                               | 0.1 | 8         |
| 69 | Specular Effects on the GPU: State of the Art. Computer Graphics Forum, 2009, 28, 1586-1617.   | 1.8 | 8         |
| 70 | Registration-Based Segmentation Using the Information Bottleneck Method. Lecture Notes in Computer Science, 2007, , 130-137.                         | 1.0 | 8         |
| 71 | A Novel Adaptive Sampling by Tsallis Entropy. , 2007, , .  |     | 7         |
| 72 | Simplification method for textured polygonal meshes based on structural appearance. Signal, Image and Video Processing, 2013, 7, 479-492.            | 1.7 | 7         |

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| 73 | F-divergences driven video key frame extraction. , 2014, , .   |     | 7         |
| 74 | Local Parallel Cross Pattern: A Color Texture Descriptor for Image Retrieval. Sensors, 2019, 19, 315.  | 2.1 | 7         |
| 75 | Image-Based Modeling Using Viewpoint Entropy. , 2002, , 267-279.   |     | 7         |
| 76 | Similarity-Based Exploded Views. Lecture Notes in Computer Science, 2008, , 154-165.   | 1.0 | 7         |
| 77 | Generalizing the Balance Heuristic Estimator in Multiple Importance Sampling. Entropy, 2022, 24, 191.  | 1.1 | 7         |
| 78 | Medical image registration based on random line sampling. , 2005, , .  |     | 6         |
| 79 | Point sampling with uniformly distributed lines. , 2005, , .   |     | 6         |
| 80 | Volumetric ambient occlusion for volumetric models. Visual Computer, 2010, 26, 687-695.  | 2.5 | 6         |
| 81 | Smooth shadow boundaries with exponentially warped Gaussian filtering. Computers and Graphics, 2013, 37, 214-224.  | 1.4 | 6         |
| 82 | Analysis of image informativeness measures. , 2014, , .  |     | 6         |
| 83 | Information measures for terrain visualization. Computers and Geosciences, 2017, 99, 9-18.   | 2.0 | 6         |
| 84 | Global Monte Carlo. A Progressive Solution. Eurographics, 1995, , 231-239.   | 0.4 | 6         |
| 85 | Global multipath Monte Carlo algorithms for radiosity. Visual Computer, 1996, 12, 47-61.   | 2.5 | 6         |
| 86 | Extended Ambient Term. Journal of Graphics Tools, 2000, 5, 1-7.  | 0.5 | 5         |
| 87 | Computational Aesthetics 2005 Eurographics Workshop on Computational Aesthetics in Graphics,<br>Visualization and Imaging Girona, Spain, 18-20 May 2005. Computer Graphics Forum, 2006, 25, 145-146. | 1.8 | 5         |
| 88 | Overestimation and Underestimation Biases in Photon Mapping with Non-Constant Kernels. IEEE Transactions on Visualization and Computer Graphics, 2014, 20, 1441-1450.                                | 2.9 | 5         |
| 89 | Surface reflectance characterization by statistical tools. , 2015, , .   |     | 5         |
| 90 | Some Order Preserving Inequalities for Cross Entropy and Kullback–Leibler Divergence. Entropy, 2018, 20, 959.  | 1.1 | 5         |

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| 91  | Gestural Interaction and Visual Illusion for Lower Limbs' Neuropathic Pain Treatment. IEEE<br>Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 2217-2225. | 2.7 | 5         |
| 92  | CPRforblind: A video game to introduce cardiopulmonary resuscitation protocol to blind people.<br>British Journal of Educational Technology, 2018, 49, 636-645.                   | 3.9 | 5         |
| 93  | Histogram Ordering. IEEE Access, 2021, 9, 28785-28796.  | 2.6 | 5         |
| 94  | A Bounded Measure for Estimating the Benefit of Visualization (Part I): Theoretical Discourse and Conceptual Evaluation. Entropy, 2022, 24, 228.                                  | 1.1 | 5         |
| 95  | Optimal Source Selection in Shooting Random Walk Monte Carlo Radiosity. Computer Graphics<br>Forum, 1997, 16, C301-C308.  | 1.8 | 4         |
| 96  | Bandwidth reduction for remote navigation systems through view prediction and progressive transmission. Future Generation Computer Systems, 2004, 20, 1251-1262.                  | 4.9 | 4         |
| 97  | Selection and 3D visualization of video key frames. , 2010, , .   |     | 4         |
| 98  | Information measures for object understanding. Signal, Image and Video Processing, 2013, 7, 467-478.  | 1.7 | 4         |
| 99  | Computer-aided image geometry analysis and subset selection for optimizing texture quality in photorealistic models. Computers and Geosciences, 2013, 52, 281-291.                | 2.0 | 4         |
| 100 | View-Dependent Tessellation and Simulation of Ocean Surfaces. Scientific World Journal, The, 2014, 2014, 1-12.  | 0.8 | 4         |
| 101 | A New Scheme for Trajectory Visualization. , 2014, , .  |     | 4         |
| 102 | Heuristic-Search-Based Light Positioning According to Irradiance Intervals. Lecture Notes in Computer Science, 2009, , 128-139.   | 1.0 | 4         |
| 103 | Image Information in Digital Photography. Lecture Notes in Computer Science, 2011, , 122-131.   | 1.0 | 4         |
| 104 | Screen Space Soft Shadows. , 2010, , 477-491.   |     | 4         |
| 105 | GPU-Based Techniques for Global Illumination Effects. Synthesis Lectures on Computer Graphics and Animation, 2008, 2, 1-275.  | 0.1 | 4         |
| 106 | Rain Simulation in Dynamic Scenes. International Journal of Creative Interfaces and Computer Graphics, 2011, 2, 23-36.  | 0.1 | 4         |
| 107 | Random-valued impulse noise removal using adaptive ranked-ordered impulse detector. Journal of<br>Electronic Imaging, 2018, 27, 1.  | 0.5 | 4         |
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108 Combining global and local global-illumination algorithms. , 2003, , .

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| 109 | Reusing paths in radiosity and global illumination. Monte Carlo Methods and Applications, 2004, 10, .   | 0.3 | 3         |
| 110 | Fast Multipath Radiosity using Hierarchical Subscenes. Computer Graphics Forum, 2004, 23, 43-53.  | 1.8 | 3         |
| 111 | Fuzziness Driven Adaptive Sampling for Monte Carlo Global Illuminated Rendering. Lecture Notes in<br>Computer Science, 2006, , 148-159.                       | 1.0 | 3         |
| 112 | A New Approach to Salt-and-Pepper Noise Removal for Color Image. , 2009, , .  |     | 3         |
| 113 | Multiresolution image registration based on tree data structures. Graphical Models, 2011, 73, 111-126.  | 1.1 | 3         |
| 114 | Shadow map filtering with Gaussian shadow maps. , 2011, , .   |     | 3         |
| 115 | Tsallis Entropy for Geometry Simplification. Entropy, 2011, 13, 1805-1828.  | 1.1 | 3         |
| 116 | The Framework of a Life Support Simulation Application. Procedia Computer Science, 2012, 15, 293-294.   | 1.2 | 3         |
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| 118 | 3D shape retrieval using viewpoint informationâ€ŧheoretic measures. Computer Animation and Virtual<br>Worlds, 2015, 26, 147-156.                              | 0.7 | 3         |
| 119 | Key Frame Extraction Based on Motion Vector. Lecture Notes in Computer Science, 2016, , 387-395.  | 1.0 | 3         |
| 120 | Shape exploration of 3D heterogeneous models based on cages. Multimedia Tools and Applications, 2017, 76, 12369-12390.  | 2.6 | 3         |
| 121 | Decolorization by Fusion. IEEE Access, 2018, 6, 64071-64084.  | 2.6 | 3         |
| 122 | A hardware based implementation. , 2002, , 377-388.   |     | 3         |
| 123 | Modifying a game interface to take advantage of advanced I/O devices. , 2013, , .   |     | 3         |
| 124 | Implementation of an Immersive Videogame. International Journal of Creative Interfaces and Computer Graphics, 2015, 6, 1-20.                                  | 0.1 | 3         |
| 125 | A New Way to Re-using Paths. , 2007, , 741-750.   |     | 3         |
| 126 | A Bounded Measure for Estimating the Benefit of Visualization (Part II): Case Studies and Empirical<br>Evaluation. Entropy, 2022, 24, 282.                    | 1.1 | 3         |

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| 145 | Point-Based Modeling from a Single Image. Lecture Notes in Computer Science, 2004, , 245-251.   | 1.0 | 1         |
| 146 | Combining light animation with obscurances for glossy environments. Computer Animation and Virtual Worlds, 2004, 15, 463-470.         | 0.7 | 1         |
| 147 | A Monte Carlo-Based Fiber Tracking Algorithm using Diffusion Tensor MRI. , 2006, , .  |     | 1         |
| 148 | Adaptive sampling based on fuzzy inference. , 2006, , .   |     | 1         |
| 149 | A New Approach to Impulse Noise Removal for Color Image. , 2007, , .  |     | 1         |
| 150 | A New Adaptive Sampling Technique for Monte Carlo Global Illumination. , 2007, , .  |     | 1         |
| 151 | Efficient Animation Rendering Based on Spatio-Temporal Coherence. , 2009, , .   |     | 1         |
| 152 | Incremental Reuse of Paths in Random Walk Radiosity. Lecture Notes in Computer Science, 2010, ,<br>379-386.                           | 1.0 | 1         |
| 153 | Marker-Based Framework for Structural Health Monitoring of Civil Infrastructure. Applied<br>Mechanics and Materials, 0, 378, 539-545. | 0.2 | 1         |
| 154 | Tutorial on information theory in visualization. , 2017, , .  |     | 1         |
| 155 | Augmented film narrative by use of non-photorealistic rendering. , 2017, , .  |     | 1         |
| 156 | Pupillary Reactivity to Non-Photorealistic Rendering: A Case Study of Immersion in 3D Cinema. , 2018, , .                             |     | 1         |
| 157 | Interpreting Social Accounting Matrix (SAM) as an Information Channel. Entropy, 2020, 22, 1346.                                       | 1.1 | 1         |
| 158 | Systematic Sampling in Image-Synthesis. Lecture Notes in Computer Science, 2006, , 449-458.   | 1.0 | 1         |
| 159 | A Multiple Depth Buffer Implementation for Radiosity. Lecture Notes in Computer Science, 2003, , 346-355.                             | 1.0 | 1         |
| 160 | Bandwidth Reduction Techniques for Remote Navigation Systems. Lecture Notes in Computer Science, 2002, , 249-257.                     | 1.0 | 1         |
| 161 | Information-Theory-Based Oracles for Hierarchical Radiosity. Lecture Notes in Computer Science, 2003, , 275-284.                      | 1.0 | 1         |
| 162 | Information Theory Tools for Scene Discretization. Eurographics, 1999, , 95-106.  | 0.4 | 1         |

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| 163 | Fast Agglomerative Information Bottleneck Based Trajectory Clustering. Lecture Notes in Computer Science, 2016, , 425-433.                            | 1.0 | 1         |
| 164 | Stochastic Orders on Two-Dimensional Space: Application to Cross Entropy. Lecture Notes in Computer Science, 2020, , 28-40.                           | 1.0 | 1         |
| 165 | Random walk radiosity with infinite path length. Computers and Graphics, 1998, 22, 161-166.   | 1.4 | 0         |
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| 167 | Fast GPU-based reuse of paths in radiosity. Monte Carlo Methods and Applications, 2007, 13, .   | 0.3 | 0         |
| 168 | Improving Multipath Radiosity with Bundles of Parallel Lines. Computer Graphics Forum, 2008, 27, 1632-1646.   | 1.8 | 0         |
| 169 | Optimal Source Selection in Shooting Random Walk Monte Carlo Radiosity. Computer Graphics<br>Forum, 1997, 16, C301.                                   | 1.8 | 0         |
| 170 | Partial, multi-scale precomputed radiance transfer. , 2010, , .   |     | 0         |
| 171 | Information theory in computer graphics and visualization. , 2011, , .  |     | 0         |
| 172 | Flower modelling using natural interface and 3Gmap L-systems. , 2013, , .   |     | 0         |
| 173 | Viewpoint information-theoretic measures for 3D shape similarity. , 2013, , .   |     | 0         |
| 174 | Test Installation of a Marker-Based Framework for Structural Health Monitoring of Bridges. Applied<br>Mechanics and Materials, 0, 477-478, 813-816.   | 0.2 | 0         |
| 175 | Fast TLS Denoising Algorithm Using Grid Technique. , 2015, , .  |     | 0         |
| 176 | Stochastic Order and Generalized Weighted Mean Invariance. Entropy, 2021, 23, 662.  | 1.1 | 0         |
| 177 | Guaranteed Adaptive Antialiasing Using Interval Arithmetic. Lecture Notes in Computer Science, 2007, ,<br>166-169.                                    | 1.0 | 0         |
| 178 | A unified information theory framework for viewpoint selection and mesh saliency. , 2007, , .   |     | 0         |
| 179 | Information Theory Tools for Viewpoint Selection, Mesh Saliency and Geometry Simplification.<br>Studies in Computational Intelligence, 2009, , 41-61. | 0.7 | 0         |
| 180 | Rain Simulation in Dynamic Scenes. , 2012, , 291-305.   |     | 0         |

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| 181 | Modeling of Flowers with Inverse Grammar Generation Interface. International Journal of Creative Interfaces and Computer Graphics, 2012, 3, 23-41. | 0.1 | 0         |
| 182 | Gathering for Free in Random Walk Radiosity. Eurographics, 1999, , 89-94.  | 0.4 | 0         |
| 183 | POST-PROCESSING EXPRESSIVE RENDERING EFFECTS FOR VISUAL DEFICIENCY. , 2014, , .  |     | 0         |