Ernesto Bribiesca

List of Publications by Year
in descending order

52 papers	968 citations	567281 15 h-index	454955 30 g-index
52 all docs	52 docs citations	52 times ranked	629 citing authors

#	ARTICLE	IF	CITATIONS
1	A new chain code. Pattern Recognition, 1999, 32, 235-251.	8.1	141
2	Measuring 2-D shape compactness using the contact perimeter. Computers and Mathematics With Applications, 1997, 33, 1-9.	2.7	116
3	An easy measure of compactness for 2D and 3D shapes. Pattern Recognition, 2008, 41, 543-554.	8.1	105
4	A chain code for representing 3D curves. Pattern Recognition, 2000, 33, 755-765.	8.1	83
5	How to describe pure form and how to measure differences in shapes using shape numbers. Pattern Recognition, 1980, 12, 101-112.	8.1	66
6	Efficiency of chain codes to represent binary objects. Pattern Recognition, 2007, 40, 1660-1674.	8.1	53
7	A measure of compactness for 3D shapes. Computers and Mathematics With Applications, 2000, 40, 1275-1284.	2.7	51
8	A measure of tortuosity based on chain coding. Pattern Recognition, 2013, 46, 716-724.	8.1	49
9	A Geometric structure for two-dimensional shapes and three-dimensional surfaces. Pattern Recognition, 1992, 25, 483-496.	8.1	32
10	A method of optimum transformation of 3D objects used as a measure of shape dissimilarity. Image and Vision Computing, 2003, 21, 1027-1036.	4.5	28
11	P300 Detection Based on EEG Shape Features. Computational and Mathematical Methods in Medicine, 2016, 2016, 1-14.	1.3	24
12	A method for representing 3D tree objects using chain coding. Journal of Visual Communication and Image Representation, 2008, 19, 184-198.	2.8	19
13	Computation of the Euler number using the contact perimeter. Computers and Mathematics With Applications, 2010, 60, 1364-1373.	2.7	19
14	Arithmetic operations among shapes using shape numbers. Pattern Recognition, 1981, 13, 123-137.	8.1	18
15	A measure of 2D shape-of-object dissimilarity. Applied Mathematics Letters, 1997, 10, 107-115.	2.7	16
16	A formal language approach for a 3D curve representation. Computers and Mathematics With Applications, 2001, 42, 1571-1584.	2.7	12
17	Representation of enclosing surfaces from simple voxelized objects by means of a chain code. Pattern Recognition, 2014, 47, 1721-1730.	8.1	12
18	3D-curve representation by means of a binary chain code. Mathematical and Computer Modelling, 2004, 40, 285-295.	2.0	11

#	Article	IF	Citations
19	Mirror symmetry detection in curves represented by means of the Slope Chain Code. Pattern Recognition, 2019, 87, 67-79.	8.1	10
20	Valence Normalized Spatial Median for skeletonization and matching. , 2009, , .		9
21	Detection of a polymorphic Mesoamerican symbol using a rule-based approach. Pattern Recognition, 2006, 39, 1380-1390.	8.1	8
22	Description and classification of normal and pathological aging processes based on brain magnetic resonance imaging morphology measures. Journal of Medical Imaging, 2014, 1, 034002.	1.5	8
23	The Euler-Poincaré Formula Through Contact Surfaces of Voxelized Objects. Journal of Applied Research and Technology, 2013, 11, 65-78.	0.9	7
24	Polygonal Approximation of Contour Shapes Using Corner Detectors. Journal of Applied Research and Technology, 2009, 7, .	0.9	7
25	Detection of rotational symmetry in curves represented by the slope chain code. Pattern Recognition, 2020, 107, 107421.	8.1	6
26	Symmetry detection in 3D chain coded discrete curves and trees. Pattern Recognition, 2015, 48, 1420-1439.	8.1	5
27	A novel voxel-based method to estimate cortical sulci width and its application to compare patients with Alzheimer's disease to controls. NeuroImage, 2020, 207, 116343.	4.2	5
28	Measuring 3-D shape similarity using progressive transformations. Pattern Recognition, 1996, 29, 1117-1129.	8.1	4
29	Scanning-curves representation for the coverage of surfaces using chain coding. Computers and Graphics, 2003, 27, 123-132.	2.5	4
30	Enclosing trees. Pattern Analysis and Applications, 2012, 15, 1-17.	4.6	4
31	2D tree object representation via the slope chain code. Pattern Recognition, 2014, 47, 3242-3253.	8.1	4
32	Chain coding representation of voxel-based objects with enclosing, edging and intersecting trees. Pattern Analysis and Applications, 2017, 20, 825-844.	4.6	4
33	Digital Elevation Model Data Analysis Using the Contact Surface Area. Graphical Models, 1998, 60, 166-172.	1.3	3
34	DISCRETE KNOTS. Journal of Knot Theory and Its Ramifications, 2002, 11, 1307-1321.	0.3	3
35	A METHOD FOR COMPUTING FAMILIES OF DISCRETE KNOTS USING KNOT NUMBERS. Journal of Knot Theory and Its Ramifications, 2005, 14, 405-424.	0.3	3
36	Study of compression efficiency for three-dimensional discrete curves. Optical Engineering, 2008, 47, 077206.	1.0	3

#	Article	IF	Citations
37	Neuromorphometry of primary brain tumors by magnetic resonance imaging. Journal of Medical Imaging, 2015, 2, 024503.	1.5	3
38	Definite-clause grammars for 2D shape analysis. Computers and Mathematics With Applications, 1995, 30, 95-103.	2.7	2
39	Three-dimensional tree-object representation by means of a binary descriptor. Optical Engineering, 2008, 47, 127002.	1.0	2
40	Surface trees â€" Representation of boundary surfaces using a tree descriptor. Journal of Visual Communication and Image Representation, 2015, 31, 101-111.	2.8	2
41	A contour-oriented approach to shape analysis via the slope chain code. International Journal of Contemporary Mathematical Sciences, 0, 11, 65-84.	0.3	2
42	Geographic data bank. Computer Graphics, 1976, 10, 2-4.	0.1	1
43	AN EASY AND FAST ALGORITHM FOR OBTAINING MINIMAL DISCRETE KNOTS. Journal of Knot Theory and Its Ramifications, 2006, 15, 613-629.	0.3	1
44	Compression of three-dimensional surfaces by means of chain coding. Optical Engineering, 2015, 54, 124102.	1.0	1
45	The spirals of the Slope Chain Code. Pattern Recognition, 2019, 95, 247-260.	8.1	1
46	A Measure of Tortuosity for Enclosing Surfaces of Voxel-Based Objects. SN Computer Science, 2021, 2, 1.	3.6	1
47	Recognition of a polymorphic archeological symbol using a rule-based technique. , 2005, , .		0
48	An Algorithm for Generating a Family of Alternating Knots. ISRN Algebra, 2012, 2012, 1-12.	0.4	0
49	A chain code for representing high definition contour shapes. Journal of Visual Communication and Image Representation, 2019, 61, 93-104.	2.8	0
50	An Approach to the Computation of the Euler Number by means of the Vertex Chain Code. Computational and Mathematical Methods in Medicine, 2020, 2020, 1-13.	1.3	0
51	Slope-chain-code-based characterization of Trypanosoma cruzi in blood smear images. , 2020, , .		0
52	3D Tortuosity: a Morphological Characterization of the Central Sulcus to Differentiate Patients with Alzheimer's Disease and Controls. , 2020, , .		0