Francesc A RossellÃ³

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Diffusional conductances to CO2 as a target for increasing photosynthesis and photosynthetic water-use efficiency. Photosynthesis Research, 2013, 117, 45-59.	2.9	305
2	Comparison of Tree-Child Phylogenetic Networks. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2009, 6, 552-569.	3.0	123
3	Extended Newick: it is time for a standard representation of phylogenetic networks. BMC Bioinformatics, 2008, 9, 532.	2.6	82
4	On the coverings by tolerance classes*1. Information Sciences, 2004, 166, 193-211.	6.9	63
5	A new balance index for phylogenetic trees. Mathematical Biosciences, 2013, 241, 125-136.	1.9	49
6	A distance metric for a class of tree-sibling phylogenetic networks. Bioinformatics, 2008, 24, 1481-1488.	4.1	48
7	Cophenetic metrics for phylogenetic trees, after Sokal and Rohlf. BMC Bioinformatics, 2013, 14, 3.	2.6	48
8	Averaging fuzzy biopolymers. Fuzzy Sets and Systems, 2005, 152, 139-158.	2.7	45
9	Metrics for Phylogenetic Networks I: Generalizations of the Robinson-Foulds Metric. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2009, 6, 46-61.	3.0	44
10	Tripartitions do not always discriminate phylogenetic networks. Mathematical Biosciences, 2008, 211, 356-370.	1.9	28
11	Nodal distances for rooted phylogenetic trees. Journal of Mathematical Biology, 2010, 61, 253-276.	1.9	26
12	Metrics for Phylogenetic Networks II: Nodal and Triplets Metrics. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2009, 6, 454-469.	3.0	22
13	Graph Transformation in Molecular Biology. Lecture Notes in Computer Science, 2005, , 116-133.	1.3	21
14	Algebraic transformation of unary partial algebras II: Single-pushout approach. Theoretical Computer Science, 1999, 216, 311-362.	0.9	17
15	All that glisters is not galled. Mathematical Biosciences, 2009, 221, 54-59.	1.9	17
16	Exact formulas for the variance of several balance indices under the Yule model. Journal of Mathematical Biology, 2013, 67, 1833-1846.	1.9	17
17	Chemical Graphs, Chemical Reaction Graphs, and Chemical Graph Transformation. Electronic Notes in Theoretical Computer Science, 2005, 127, 157-166.	0.9	15
18	An algebraic metric for phylogenetic trees. Applied Mathematics Letters, 2009, 22, 1320-1324.	2.7	15

FRANCESC A ROSSELLÃ³

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19	On Nakhleh's Metric for Reduced Phylogenetic Networks. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2009, 6, 629-638.	3.0	15
20	Comparison of Galled Trees. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2011, 8, 410-427.	3.0	15
21	Sound Colless-like balance indices for multifurcating trees. PLoS ONE, 2018, 13, e0203401.	2.5	14
22	A perl package and an alignment tool for phylogenetic networks. BMC Bioinformatics, 2008, 9, 175.	2.6	13
23	Unbiased Taxonomic Annotation of Metagenomic Samples. Journal of Computational Biology, 2018, 25, 348-360.	1.6	12
24	On Sackin's original proposal: the variance of the leaves' depths as a phylogenetic balance index. BMC Bioinformatics, 2020, 21, 154.	2.6	12
25	A reconstruction problem for a class of phylogenetic networks with lateral gene transfers. Algorithms for Molecular Biology, 2015, 10, 28.	1.2	11
26	Analysis of Metabolic Pathways by Graph Transformation. Lecture Notes in Computer Science, 2004, , 70-82.	1.3	11
27	Algebraic transformation of unary partial algebras I. double-pushout approach. Theoretical Computer Science, 1997, 184, 145-193.	0.9	10
28	An algebraic view of the relation between largest common subtrees and smallest common supertrees. Theoretical Computer Science, 2006, 362, 33-53.	0.9	10
29	Scalar and fuzzy cardinalities of crisp and fuzzy multisets. International Journal of Intelligent Systems, 2009, 24, 587-623.	5.7	10
30	The mean value of the squared path-difference distance for rooted phylogenetic trees. Journal of Mathematical Analysis and Applications, 2010, 371, 168-176.	1.0	10
31	On the minimum value of the Colless index and the bifurcating trees that achieve it. Journal of Mathematical Biology, 2020, 80, 1993-2054.	1.9	9
32	A balance index for phylogenetic trees based on rooted quartets. Journal of Mathematical Biology, 2019, 79, 1105-1148.	1.9	8
33	AligNet: alignment of protein-protein interaction networks. BMC Bioinformatics, 2020, 21, 265.	2.6	8
34	A new family of metrics for biopolymer contact structures. Computational Biology and Chemistry, 2004, 28, 21-37.	2.3	7
35	Path lengths in tree-child time consistent hybridization networks. Information Sciences, 2010, 180, 366-383.	6.9	7
36	On the complexity of some problems for the Blum, Shub & Smale model. , 1992, , 117-129.		6

Francesc A RossellÃ³

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37	Pushout Complements for Arbitrary Partial Algebras. Lecture Notes in Computer Science, 2000, , 131-144.	1.3	6
38	The Generalized Robinson-Foulds Distance for Phylogenetic Trees. Journal of Computational Biology, 2021, 28, 1181-1195.	1.6	6
39	Pushout complements for partly total algebras. Mathematical Structures in Computer Science, 2002, 12, 177-201.	0.6	5
40	On the algebraic representation of RNA secondary structures with Gâ‹U pairs. Journal of Mathematical Biology, 2003, 47, 1-22.	1.9	5
41	AN APPROACH TO MEMBRANE COMPUTING UNDER INEXACTITUDE. International Journal of Foundations of Computer Science, 2004, 15, 841-864.	1.1	5
42	The Probabilities of Trees and Cladograms under Ford's <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"><mml:mrow><mml:mi mathvariant="normal">α</mml:mi </mml:mrow>-Model. Scientific World Journal, The, 2018, 2018, 1-7.</mml:math 	2.1	5
43	The Comparison of Tree-Sibling Time Consistent Phylogenetic Networks Is Graph Isomorphism-Complete. Scientific World Journal, The, 2014, 2014, 1-6.	2.1	4
44	Towards a Double Pushout Transformation of Algebras. Electronic Notes in Theoretical Computer Science, 2002, 51, 265-276.	0.9	3
45	Optimal Artificial Chemistries and Metabolic Pathways. , 0, , .		3
46	Efficient Reconstruction of Metabolic Pathways byÂBidirectional Chemical Search. Bulletin of Mathematical Biology, 2009, 71, 750-769.	1.9	3
47	The expected value of the squared cophenetic metric under the Yule and the uniform models. Mathematical Biosciences, 2018, 295, 73-85.	1.9	3
48	Alignment of biological networks by integer linear programming: virus-host protein-protein interaction networks. BMC Bioinformatics, 2020, 21, 434.	2.6	3
49	On the semilattice of inner extensions of a fuzzy partial algebra. Fuzzy Sets and Systems, 2002, 127, 383-390.	2.7	2
50	Squaring within the Colless index yields a better balance index. Mathematical Biosciences, 2021, 331, 108503.	1.9	2
51	A Generalized Robinson-Foulds Distance for Clonal Trees, Mutation Trees, and Phylogenetic Trees and Networks. , 2020, , .		2
52	On the lattice of fuzzy weak subalgebras of a fuzzy partial algebra. , 0, , .		1
53	SINGLE-PUSHOUT TRANSFORMATION OF TOTAL ALGEBRAS. International Journal of Foundations of Computer Science, 2004, 15, 205-222.	1.1	1
54	Reidys' and Stadler's metricsfor RNA contact structures. Mathematical and Computer Modelling, 2004, 40, 771-776.	2.0	1

Francesc A RossellÃ³

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55	The expected value under the Yule model of the squared path-difference distance. Applied Mathematics Letters, 2012, 25, 2031-2036.	2.7	1
56	Tree-Child Cluster Networks. Fundamenta Informaticae, 2014, 134, 1-15.	0.4	1
57	Reconstructing Metabolic Pathways by Bidirectional Chemical Search. Lecture Notes in Computer Science, 2007, , 217-232.	1.3	1
58	Probabilities of Fuzzy Events Based on Scalar Cardinalities. Advances in Intelligent and Soft Computing, 2002, , 92-97.	0.2	1
59	The Fair Proportion Is a Shapley Value on Phylogenetic Networks Too. Lecture Notes in Computer Science, 2018, , 77-87.	1.3	1
60	On Hïż½ft's characterization of weak model classes. Algebra Universalis, 1995, 34, 214-219.	0.3	0
61	The uniqueness condition for the double pushout transformation of algebras. Information Sciences, 2005, 171, 93-124.	6.9	Ο
62	Mono-unary algebras are uniquely determined by their lattices of fuzzy weak subalgebras. Fuzzy Sets and Systems, 2005, 149, 349-367.	2.7	0
63	The weak hereditary class of a variety. Czechoslovak Mathematical Journal, 2006, 56, 697-710.	0.3	0
64	On the Ancestral Compatibility of Two Phylogenetic Trees with Nested Taxa. Journal of Mathematical Biology, 2006, 53, 340-364.	1.9	0
65	The Median of the Distance between Two Leaves in a Phylogenetic Tree. Advances in Intelligent and Soft Computing, 2010, , 131-135.	0.2	0
66	Unbiased Taxonomic Annotation of Metagenomic Samples. Lecture Notes in Computer Science, 2017, , 162-173.	1.3	0