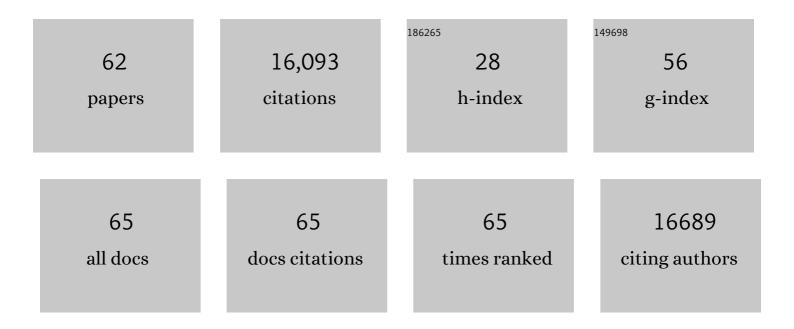
Sorin Istrail

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Combinatorial and statistical prediction of gene expression from haplotype sequence. Bioinformatics, 2020, 36, i194-i202.	4.1	2
2	Proteinarium: Multi-sample protein-protein interaction analysis and visualization tool. Genomics, 2020, 112, 4288-4296.	2.9	10
3	Eric Davidson's Regulatory Genome for Computer Science: Causality, Logic, and Proof Principles of the Genomic <i>cis</i> -Regulatory Code. Journal of Computational Biology, 2019, 26, 653-684.	1.6	5
4	How Does the Regulatory Genome Work?. Journal of Computational Biology, 2019, 26, 685-695.	1.6	3
5	Global Comparison of Drug Resistance Mutations After First-Line Antiretroviral Therapy Across Human Immunodeficiency Virus-1 Subtypes. Open Forum Infectious Diseases, 2016, 3, ofv158.	0.9	12
6	Transcriptome of American Oysters, Crassostrea virginica, in Response to Bacterial Challenge: Insights into Potential Mechanisms of Disease Resistance. PLoS ONE, 2014, 9, e105097.	2.5	74
7	Tractatus: An Exact and Subquadratic Algorithm for Inferring Identical-by-Descent Multi-shared Haplotype Tracts. Lecture Notes in Computer Science, 2014, , 1-17.	1.3	0
8	Tumor haplotype assembly algorithms for cancer genomics. Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing, 2014, , 3-14.	0.7	2
9	A quantitative reference transcriptome for Nematostella vectensis earlyembryonic development: a pipeline for de novo assembly in emergingmodel systems. EvoDevo, 2013, 4, 16.	3.2	57
10	Intellectual Disability Is Associated with Increased Runs of Homozygosity in Simplex Autism. American Journal of Human Genetics, 2013, 93, 103-109.	6.2	63
11	Pathway-based genetic analysis of preterm birth. Genomics, 2013, 101, 163-170.	2.9	51
12	Pathway-based analysis of genomic variation data. Current Opinion in Genetics and Development, 2013, 23, 622-626.	3.3	16
13	Haplotype assembly in polyploid genomes and identical by descent shared tracts. Bioinformatics, 2013, 29, i352-i360.	4.1	85
14	TUMOR HAPLOTYPE ASSEMBLY ALGORITHMS FOR CANCER GENOMICS. , 2013, , .		3
15	DELISHUS: an efficient and exact algorithm for genome-wide detection of deletion polymorphism in autism. Bioinformatics, 2012, 28, i154-i162.	4.1	3
16	dbPTB: a database for preterm birth. Database: the Journal of Biological Databases and Curation, 2012, 2012, bar069.	3.0	39
17	Global analysis of sequence diversity within HIV-1 subtypes across geographic regions. Future Virology, 2012, 7, 505-517.	1.8	13
18	Workshop: Robust algorithms for inferring haplotype phase and deletion polymorphism from high-throughput whole genome sequence data. , 2012, , .		0

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#	Article	lF	CITATIONS
19	HapCompass: A Fast Cycle Basis Algorithm for Accurate Haplotype Assembly of Sequence Data. Journal of Computational Biology, 2012, 19, 577-590.	1.6	101
20	QColors: An algorithm for conservative viral quasispecies reconstruction from short and non-contiguous next generation sequencing reads. , 2011, , .		6
21	The Clark Phaseable Sample Size Problem: Long-Range Phasing and Loss of Heterozygosity in GWAS. Journal of Computational Biology, 2011, 18, 323-333.	1.6	16
22	Conservative Extensions of Linkage Disequilibrium Measures from Pairwise to Multi-loci and Algorithms for Optimal Tagging SNP Selection. Lecture Notes in Computer Science, 2011, , 468-482.	1.3	2
23	QColors: an algorithm for conservative viral quasispecies reconstruction from short and non-contiguous next generation sequencing reads. In Silico Biology, 2011, 11, 193-201.	0.9	22
24	Functional <i>cis</i> -regulatory genomics for systems biology. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 3930-3935.	7.1	50
25	Practical Computational Methods for Regulatory Genomics: A cisGRN-Lexicon and cisGRN-Browser for Gene Regulatory Networks. Methods in Molecular Biology, 2010, 674, 369-399.	0.9	4
26	HAPLOTYPE PHASING BY MULTI-ASSEMBLY OF SHARED HAPLOTYPES: PHASE-DEPENDENT INTERACTIONS BETWEEN RARE VARIANTS. , 2010, , 88-99.		8
27	The Clark Phase-able Sample Size Problem: Long-Range Phasing and Loss of Heterozygosity in GWAS. Lecture Notes in Computer Science, 2010, , 158-173.	1.3	1
28	On the Concept of Cis-regulatory Information: From Sequence Motifs to Logic Functions. Natural Computing Series, 2009, , 731-742.	2.2	1
29	The regulatory genome and the computer. Developmental Biology, 2007, 310, 187-195.	2.0	76
30	The Genome of the Sea Urchin <i>Strongylocentrotus purpuratus</i> . Science, 2006, 314, 941-952.	12.6	1,018
31	Islands of Tractability for Parsimony Haplotyping. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2006, 3, 303-311.	3.0	24
32	The Transcriptome of the Sea Urchin Embryo. Science, 2006, 314, 960-962.	12.6	85
33	Polynomial and APX-hard cases of the individual haplotyping problem. Theoretical Computer Science, 2005, 335, 109-125.	0.9	50
34	The linkage disequilibrium maps of three human chromosomes across four populations reflect their demographic history and a common underlying recombination pattern. Genome Research, 2005, 15, 454-462.	5.5	107
35	Finding Anchors for Genomic Sequence Comparison. Journal of Computational Biology, 2005, 12, 762-776.	1.6	8
36	Logic functions of the genomic cis-regulatory code. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 4954-4959.	7.1	159

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#	Article	IF	CITATIONS
37	Islands of tractability for parsimony haplotyping. , 2005, , 65-72.		4
38	Gene and alternative splicing annotation with AIR. Genome Research, 2005, 15, 54-66.	5.5	70
39	Optimal Haplotype Block-Free Selection of Tagging SNPs for Genome-Wide Association Studies. Genome Research, 2004, 14, 1633-1640.	5.5	113
40	Whole-genome shotgun assembly and comparison of human genome assemblies. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 1916-1921.	7.1	164
41	Comparative immunopeptidomics of humans and their pathogens. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 13268-13272.	7.1	38
42	Optimal Selection of SNP Markers for Disease Association Studies. Human Heredity, 2004, 58, 190-202.	0.8	63
43	Finding anchors for genomic sequence comparison. , 2004, , .		4
44	A Survey of Computational Methods for Determining Haplotypes. Lecture Notes in Computer Science, 2004, , 26-47.	1.3	72
45	Inferring Piecewise Ancestral History from Haploid Sequences. Lecture Notes in Computer Science, 2004, , 62-73.	1.3	3
46	Robustness of Inference of Haplotype Block Structure. Journal of Computational Biology, 2003, 10, 13-19.	1.6	54
47	Combinatorial Problems Arising in SNP and Haplotype Analysis. Lecture Notes in Computer Science, 2003, , 26-47.	1.3	17
48	Haplotypes and informative SNP selection algorithms. , 2003, , .		52
49	Epitope prediction algorithms for peptide-based vaccine design. Proceedings, 2003, 2, 17-26.	0.1	16
50	Algorithmic strategies for the single nucleotide polymorphism haplotype assembly problem. Briefings in Bioinformatics, 2002, 3, 23-31.	6.5	187
51	Practical Algorithms and Fixed-Parameter Tractability for the Single Individual SNP Haplotyping Problem. Lecture Notes in Computer Science, 2002, , 29-43.	1.3	56
52	The Sequence of the Human Genome. Science, 2001, 291, 1304-1351.	12.6	12,623
53	Physical Mapping with Repeated Probes: The Hypergraph Superstring Problem. Lecture Notes in Computer Science, 1999, , 66-77.	1.3	5
54	Lattice and Off-Lattice Side Chain Models of Protein Folding: Linear Time Structure Prediction Better than 86% of Optimal. Journal of Computational Biology, 1997, 4, 241-259.	1.6	42

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55	Robust Proofs of NP-Hardness for Protein Folding: General Lattices and Energy Potentials. Journal of Computational Biology, 1997, 4, 1-22.	1.6	113
56	Invariant patterns in crystal lattices: Implications for protein folding algorithms (extended abstract). Lecture Notes in Computer Science, 1996, , 288-303.	1.3	6
57	Physical Mapping by STS Hybridization: Algorithmic Strategies and the Challenge of Software Evaluation. Journal of Computational Biology, 1995, 2, 219-273.	1.6	47
58	The chimeric mapping problem: Algorithmic strategies and performance evaluation on synthetic genomic data. Computers & Chemistry, 1994, 18, 207-220.	1.2	6
59	Chomsky-Schotzenberger representations for families of languages and grammatical types. Lecture Notes in Computer Science, 1981, , 333-347.	1.3	1
60	On complements of some bounded context-sensitive languages. Information and Control, 1979, 42, 283-289.	1.1	6
61	Elementary bounded languages. Information and Control, 1978, 39, 177-191.	1.1	8
62	Michael Waterman's Contributions to Computational Biology and Bioinformatics. Journal of Computational Biology, 0, , .	1.6	0