

# Fabrizio Montecchiani

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/2654929/fabrizio-montecchiani-publications-by-year.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

103  
papers

686  
citations

15  
h-index

20  
g-index

107  
ext. papers

804  
ext. citations

1.5  
avg, IF

4.64  
L-index

| #   | Paper   | IF  | Citations |
|-----|---|-----|-----------|
| 103 | 1-planarity testing and embedding: An experimental study. <i>Computational Geometry: Theory and Applications</i> , <b>2022</b> , 101900         | 0.4 |           |
| 102 | Convex Grid Drawings of Planar Graphs with Constant Edge-Vertex Resolution. <i>Lecture Notes in Computer Science</i> , <b>2022</b> , 157-171    | 0.9 | 1         |
| 101 | Orthogonal Planarity Testing of Bounded Treewidth Graphs. <i>Journal of Computer and System Sciences</i> , <b>2021</b> , 125, 129-129           | 1   | 4         |
| 100 | On the Upward Book Thickness Problem: Combinatorial and Complexity Results. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 242-256    | 0.9 | 1         |
| 99  | Optimal-Area Visibility Representations of Outer-1-Plane Graphs. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 287-303               | 0.9 |           |
| 98  | A User Study on Hybrid Graph Visualizations. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 21-38                                     | 0.9 | 2         |
| 97  | Crossing numbers of beyond-planar graphs. <i>Theoretical Computer Science</i> , <b>2021</b> , 898, 44-44  | 1.1 | 1         |
| 96  | Ortho-polygon visibility representations of 3-connected 1-plane graphs. <i>Theoretical Computer Science</i> , <b>2021</b> , 863, 40-52          | 1.1 | 2         |
| 95  | On Morphing 1-Planar Drawings. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 270-282   | 0.9 |           |
| 94  | Planar Drawings with Few Slopes of Halin Graphs and Nested Pseudotrees. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 271-285        | 0.9 | 1         |
| 93  | Grid drawings of graphs with constant edge-vertex resolution. <i>Computational Geometry: Theory and Applications</i> , <b>2021</b> , 98, 101789 | 0.4 | 2         |
| 92  | Visual Analytics for Financial Crime Detection at the University of Perugia. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 195-200   | 0.9 |           |
| 91  | . <i>IEEE Access</i> , <b>2020</b> , 8, 16073-16086   | 3.5 | 10        |
| 90  | An Experimental Study of a 1-Planarity Testing and Embedding Algorithm. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 329-335        | 0.9 | 3         |
| 89  | 1-bend upward planar slope number of SP-digraphs. <i>Computational Geometry: Theory and Applications</i> , <b>2020</b> , 90, 101628             | 0.4 | 2         |
| 88  | Parameterized Algorithms for Book Embedding Problems. <i>Journal of Graph Algorithms and Applications</i> , <b>2020</b> , 24, 603-620           | 1.5 | 7         |
| 87  | Parameterized Algorithms for Queue Layouts. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 40-54                                      | 0.9 | 5         |

|    |  |      |    |
|----|--|------|----|
| 86 | The Stub Resolution of 1-Planar Graphs. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 170-182   | 0.9  |    |
| 85 | Storyline Visualizations with Ubiquitous Actors. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 324-332  | 0.9  | 1  |
| 84 | VAIM: Visual Analytics for Influence Maximization. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 115-123  | 0.9  | 0  |
| 83 | Edge Partitions and Visibility Representations of 1-planar Graphs <b>2020</b> , 89-107   |      |    |
| 82 | Polyline drawings with topological constraints. <i>Theoretical Computer Science</i> , <b>2020</b> , 809, 250-264   | 1.1  | 1  |
| 81 | Hybrid Graph Visualizations with ChordLink: Algorithms, Experiments, and Applications. <i>IEEE Transactions on Visualization and Computer Graphics</i> , <b>2020</b> , PP, | 4    | 3  |
| 80 | Simple k-planar graphs are simple (k + 1)-quasiplanar. <i>Journal of Combinatorial Theory Series B</i> , <b>2020</b> , 142, 1-35   | 1.1  | 6  |
| 79 | On 3D visibility representations of graphs with few crossings per edge. <i>Theoretical Computer Science</i> , <b>2019</b> , 784, 11-20                                     | 1.1  | 5  |
| 78 | A Distributed Multilevel Force-Directed Algorithm. <i>IEEE Transactions on Parallel and Distributed Systems</i> , <b>2019</b> , 30, 754-765                                | 3.7  | 8  |
| 77 | Guarding Orthogonal Art Galleries with Sliding k-Transmitters: Hardness and Approximation. <i>Algorithmica</i> , <b>2019</b> , 81, 69-97                                   | 0.9  | 1  |
| 76 | Visual querying and analysis of temporal fiscal networks. <i>Information Sciences</i> , <b>2019</b> , 505, 406-421   | 7.7  | 5  |
| 75 | Planar graphs of bounded degree have bounded queue number <b>2019</b> ,  |      | 1  |
| 74 | Universal Slope Sets for 1-Bend Planar Drawings. <i>Algorithmica</i> , <b>2019</b> , 81, 2527-2556   | 0.9  | 3  |
| 73 | Parameterized Algorithms for Book Embedding Problems. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 365-378   |      | 4  |
| 72 | Sketched Representations and Orthogonal Planarity of Bounded Treewidth Graphs. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 379-392                            | 0.9  | 5  |
| 71 | Crossing Numbers of Beyond-Planar Graphs. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 78-86   | 0.9  | 1  |
| 70 | ChordLink: A New Hybrid Visualization Model. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 276-290  | 0.9  | 6  |
| 69 | A Survey on Graph Drawing Beyond Planarity. <i>ACM Computing Surveys</i> , <b>2019</b> , 52, 1-37  | 13.4 | 38 |

|    |   |     |    |
|----|---|-----|----|
| 68 | Planar Graphs of Bounded Degree Have Bounded Queue Number. <i>SIAM Journal on Computing</i> , <b>2019</b> , 48, 1487-1502                       | 1.1 | 7  |
| 67 | Edge partitions of optimal 2-plane and 3-plane graphs. <i>Discrete Mathematics</i> , <b>2019</b> , 342, 1038-1047                               | 0.7 | 6  |
| 66 | Drawing subcubic planar graphs with four slopes and optimal angular resolution. <i>Theoretical Computer Science</i> , <b>2018</b> , 714, 51-73  | 1.1 | 7  |
| 65 | New results on edge partitions of 1-plane graphs. <i>Theoretical Computer Science</i> , <b>2018</b> , 713, 78-84                                | 1.1 | 7  |
| 64 | Profiling distributed graph processing systems through visual analytics. <i>Future Generation Computer Systems</i> , <b>2018</b> , 87, 43-57    | 7.5 | 3  |
| 63 | A visual analytics system to support tax evasion discovery. <i>Decision Support Systems</i> , <b>2018</b> , 110, 71-83                          | 5.6 | 16 |
| 62 | A Visualization Framework and User Studies for Overloaded Orthogonal Drawings. <i>Computer Graphics Forum</i> , <b>2018</b> , 37, 288-300       | 2.4 | 4  |
| 61 | Guest Editors Foreword and Overview. <i>Journal of Graph Algorithms and Applications</i> , <b>2018</b> , 22, 1-10                               | 1.5 | 10 |
| 60 | Gap-Planar Graphs. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 531-545   | 0.9 | 1  |
| 59 | Drawing Subcubic 1-Planar Graphs with Few Bends, Few Slopes, and Large Angles. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 152-166 | 0.9 | 1  |
| 58 | Bounded Stub Resolution for Some Maximal 1-Planar Graphs. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 214-220                      | 0.9 | 1  |
| 57 | Ortho-Polygon Visibility Representations of 3-Connected 1-Plane Graphs. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 524-537        | 0.9 | 2  |
| 56 | Universal Slope Sets for Upward Planar Drawings. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 77-91                                 | 0.9 | 2  |
| 55 | Edge Partitions of Optimal 2-plane and 3-plane Graphs. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 27-39                           | 0.9 | 1  |
| 54 | 3D Visibility Representations of 1-planar Graphs. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 102-109                              | 0.9 | 1  |
| 53 | GiViP: A Visual Profiler for Distributed Graph Processing Systems. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 256-271             | 0.9 | 3  |
| 52 | Ortho-polygon Visibility Representations of Embedded Graphs. <i>Algorithmica</i> , <b>2018</b> , 80, 2345-2383                                  | 0.9 | 16 |
| 51 | Visibility representations of boxes in 2.5 dimensions. <i>Computational Geometry: Theory and Applications</i> , <b>2018</b> , 72, 19-33         | 0.4 | 4  |

|    |   |      |    |
|----|---|------|----|
| 50 | Embedding-Preserving Rectangle Visibility Representations of Nonplanar Graphs. <i>Discrete and Computational Geometry</i> , <b>2018</b> , 60, 345-380                       | 0.6  | 8  |
| 49 | Gap-planar graphs. <i>Theoretical Computer Science</i> , <b>2018</b> , 745, 36-52   | 1.1  | 16 |
| 48 | On partitioning the edges of 1-plane graphs. <i>Theoretical Computer Science</i> , <b>2017</b> , 662, 59-65   | 1.1  | 8  |
| 47 | Designing the Content Analyzer of a Travel Recommender System. <i>Expert Systems With Applications</i> , <b>2017</b> , 87, 199-208  | 7.8  | 17 |
| 46 | Large graph visualizations using a distributed computing platform. <i>Information Sciences</i> , <b>2017</b> , 381, 124-141   | 14.1 | 16 |
| 45 | An annotated bibliography on 1-planarity. <i>Computer Science Review</i> , <b>2017</b> , 25, 49-67  | 8.3  | 66 |
| 44 | On RAC drawings of 1-planar graphs. <i>Theoretical Computer Science</i> , <b>2017</b> , 689, 48-57  | 1.1  | 20 |
| 43 | Area-Thickness Trade-Offs for Straight-Line Drawings of Planar Graphs. <i>Computer Journal</i> , <b>2017</b> , 60, 135-142  | 1.42 | 1  |
| 42 | Algorithms and Characterizations for 2-Layer Fan-planarity: From Caterpillar to Stegosaurus. <i>Journal of Graph Algorithms and Applications</i> , <b>2017</b> , 21, 81-102 | 1.5  | 10 |
| 41 | Vertex-Coloring with Defects. <i>Journal of Graph Algorithms and Applications</i> , <b>2017</b> , 21, 313-340   | 1.5  | 7  |
| 40 | Progress on Partial Edge Drawings. <i>Journal of Graph Algorithms and Applications</i> , <b>2017</b> , 21, 757-786  | 1.5  | 10 |
| 39 | On Guarding Orthogonal Polygons with Sliding Cameras. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 54-65  | 0.9  | 6  |
| 38 | On the Relationship Between k-Planar and k-Quasi-Planar Graphs. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 59-74  | 0.9  | 7  |
| 37 | Recognizing and drawing IC-planar graphs. <i>Theoretical Computer Science</i> , <b>2016</b> , 636, 1-16   | 1.1  | 33 |
| 36 | L-visibility drawings of IC-planar graphs. <i>Information Processing Letters</i> , <b>2016</b> , 116, 217-222   | 0.8  | 18 |
| 35 | 1-Bend Upward Planar Drawings of SP-Digraphs. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 123-130  | 0.9  | 2  |
| 34 | 1-Bend RAC Drawings of 1-Planar Graphs. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 335-343  | 0.9  | 1  |
| 33 | Ortho-Polygon Visibility Representations of Embedded Graphs. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 280-294   | 0.9  | 1  |

|    |  |     |    |
|----|--|-----|----|
| 32 | Visibility Representations of Boxes in 2.5 Dimensions. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 251-265  | 0.9 | 2  |
| 31 | A Distributed Multilevel Force-Directed Algorithm. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 3-17   | 0.9 | 3  |
| 30 | Placing Arrows in Directed Graph Drawings. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 44-51  | 0.9 | 1  |
| 29 | Partial edge drawing: Homogeneity is more important than crossings and ink <b>2016</b> ,   |     | 6  |
| 28 | Simultaneous Visibility Representations of Plane st-graphs Using L-shapes. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 252-265                        | 0.9 | 1  |
| 27 | Simultaneous visibility representations of plane st-graphs using L-shapes. <i>Theoretical Computer Science</i> , <b>2016</b> , 645, 100-111                        | 1.1 | 10 |
| 26 | Fan-planarity: Properties and complexity. <i>Theoretical Computer Science</i> , <b>2015</b> , 589, 76-86   | 1.1 | 25 |
| 25 | Algorithms and bounds for drawing non-planar graphs with crossing-free subgraphs. <i>Computational Geometry: Theory and Applications</i> , <b>2015</b> , 50, 34-48 | 0.4 | 3  |
| 24 | A Million Edge Drawing for a Fistful of Dollars. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 44-51  | 0.9 | 4  |
| 23 | <b>2015</b> ,  |     | 1  |
| 22 | Drawing Outer 1-planar Graphs with Few Slopes. <i>Journal of Graph Algorithms and Applications</i> , <b>2015</b> , 19, 707-741                                     | 1.5 | 11 |
| 21 | Kojaph: Visual Definition and Exploration of Patterns in Graph Databases. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 272-278                         | 0.9 | 2  |
| 20 | 2-Layer Fan-Planarity: From Caterpillar to Stegosaurus. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 281-294   | 0.9 |    |
| 19 | Recognizing and Drawing IC-Planar Graphs. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 295-308   | 0.9 | 1  |
| 18 | L-Visibility Drawings of IC-Planar Graphs. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 545-547  | 0.9 |    |
| 17 | <b>2014</b> ,  |     | 4  |
| 16 | How to visualize directed graphs: A user study <b>2014</b> ,   |     | 3  |
| 15 | Fast layout computation of clustered networks: Algorithmic advances and experimental analysis. <i>Information Sciences</i> , <b>2014</b> , 260, 185-199            | 7.7 | 25 |

|    |  |     |    |
|----|--|-----|----|
| 14 | Network visualization for financial crime detection. <i>Journal of Visual Languages and Computing</i> , <b>2014</b> , 25, 433-451                  |     | 25 |
| 13 | Techniques for Edge Stratification of Complex Graph Drawings. <i>Journal of Visual Languages and Computing</i> , <b>2014</b> , 25, 533-543         |     | 5  |
| 12 | 1-Bend Orthogonal Partial Edge Drawing. <i>Journal of Graph Algorithms and Applications</i> , <b>2014</b> , 18, 111-131.5                          |     | 8  |
| 11 | Drawing Outer 1-planar Graphs with Few Slopes. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 174-185                                    | 0.9 | 2  |
| 10 | Fan-Planar Graphs: Combinatorial Properties and Complexity Results. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 186-197               | 0.9 | 2  |
| 9  | The Planar Slope Number of Subcubic Graphs. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 132-143                                       | 0.9 | 6  |
| 8  | Area requirement of graph drawings with few crossings per edge. <i>Computational Geometry: Theory and Applications</i> , <b>2013</b> , 46, 909-916 | 0.4 | 18 |
| 7  | <b>2013,</b>   |     | 1  |
| 6  | Drawing Non-Planar Graphs with Crossing-Free Subgraphs. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 292-303                           | 0.9 | 4  |
| 5  | Exploring Complex Drawings via Edge Stratification. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 304-315                               | 0.9 | 1  |
| 4  | Progress on Partial Edge Drawings. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 67-78  | 0.9 | 6  |
| 3  | <b>2012,</b>   |     | 9  |
| 2  | h-Quasi Planar Drawings of Bounded Treewidth Graphs in Linear Area. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 91-102                | 0.9 | 10 |
| 1  | <b>2011,</b>   |     | 19 |