

Franck Petit

List of Publications by Year in descending order

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Version: 2024-02-01

74
papers

821
citations

706676

14
h-index

721071

23
g-index

83
all docs

83
docs citations

83
times ranked

267
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Terminating Exploration Of A Grid By An Optimal Number Of Asynchronous Oblivious Robots. Computer Journal, 2021, 64, 132-154. | 1.5 | 12 |
| 2 | On Implementing Stabilizing Leader Election with Weak Assumptions on Network Dynamics. , 2021, , . | | 1 |
| 3 | Self-stabilizing Systems in Spite of High Dynamics. , 2021, , . | | 4 |
| 4 | Almost Universal Anonymous Rendezvous in the Plane. , 2020, , . | | 0 |
| 5 | Brief Announcement: Self-stabilizing Systems in Spite of High Dynamics. , 2020, , . | | 0 |
| 6 | Introduction to Distributed Self-Stabilizing Algorithms. Synthesis Lectures on Distributed Computing Theory, 2019, 8, 1-165. | 0.1 | 14 |
| 7 | Explicit Communication Among Stigmergic Robots. International Journal of Foundations of Computer Science, 2019, 30, 315-332. | 0.8 | 2 |
| 8 | Asynchronous approach in the plane: a deterministic polynomial algorithm. Distributed Computing, 2019, 32, 317-337. | 0.7 | 4 |
| 9 | Gradual stabilization. Journal of Parallel and Distributed Computing, 2019, 123, 26-45. | 2.7 | 4 |
| 10 | Optimal torus exploration by oblivious robots. Computing (Vienna/New York), 2019, 101, 1241-1264. | 3.2 | 11 |
| 11 | The weakest failure detector for eventual consistency. Distributed Computing, 2019, 32, 479-492. | 0.7 | 1 |
| 12 | Gracefully Degrading Gathering in Dynamic Rings. Lecture Notes in Computer Science, 2018, , 349-364. | 1.0 | 4 |
| 13 | On deterministic rendezvous at a node of agents with arbitrary velocities. Information Processing Letters, 2018, 133, 39-43. | 0.4 | 5 |
| 14 | Computability of Perpetual Exploration in Highly Dynamic Rings. , 2017, , . | | 10 |
| 15 | Self-stabilizing leader election in polynomial steps. Information and Computation, 2017, 254, 330-366. | 0.5 | 13 |
| 16 | Self-Stabilizing Prefix Tree Based Overlay Networks. International Journal of Foundations of Computer Science, 2016, 27, 607-630. | 0.8 | 1 |
| 17 | The expressive power of snap-stabilization. Theoretical Computer Science, 2016, 626, 40-66. | 0.5 | 14 |
| 18 | Snap-stabilizing committee coordination. Journal of Parallel and Distributed Computing, 2016, 87, 26-42. | 2.7 | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Gradual Stabilization Under τ -Dynamics. Lecture Notes in Computer Science, 2016, , 588-602. | 1.0 | 0 |
| 20 | A Generic Framework for Impossibility Results in Time-Varying Graphs. , 2015, , . | | 1 |
| 21 | Enabling Ring Exploration with Myopic Oblivious Robots. , 2015, , . | | 8 |
| 22 | The Weakest Failure Detector for Eventual Consistency. , 2015, , . | | 6 |
| 23 | Optimal Torus Exploration by Oblivious Robots. Lecture Notes in Computer Science, 2015, , 183-199. | 1.0 | 8 |
| 24 | Discovering and Assessing Fine-Grained Metrics in Robot Networks Protocols. , 2014, , . | | 19 |
| 25 | Self-stabilizing Leader Election in Polynomial Steps. Lecture Notes in Computer Science, 2014, , 106-119. | 1.0 | 6 |
| 26 | The snap-stabilizing message forwarding algorithm on tree topologies. Theoretical Computer Science, 2013, 496, 89-112. | 0.5 | 3 |
| 27 | Optimal probabilistic ring exploration by semi-synchronous oblivious robots. Theoretical Computer Science, 2013, 498, 10-27. | 0.5 | 28 |
| 28 | Deterministic geoleader election in disoriented anonymous systems. Theoretical Computer Science, 2013, 506, 43-54. | 0.5 | 5 |
| 29 | Ring Exploration by Oblivious Agents with Local Vision. , 2013, , . | | 17 |
| 30 | Ring Exploration by Oblivious Robots with Vision Limited to 2 or 3. Lecture Notes in Computer Science, 2013, , 363-366. | 1.0 | 5 |
| 31 | On efficiency of unison. , 2012, , . | | 5 |
| 32 | Self-stabilizing gathering with strong multiplicity detection. Theoretical Computer Science, 2012, 428, 47-57. | 0.5 | 36 |
| 33 | Optimal Grid Exploration by Asynchronous Oblivious Robots. Lecture Notes in Computer Science, 2012, , 64-76. | 1.0 | 38 |
| 34 | Snap-Stabilizing Message Forwarding Algorithm on Tree Topologies. Lecture Notes in Computer Science, 2012, , 46-60. | 1.0 | 0 |
| 35 | Peer-to-Peer Service Discovery for Grid Computing. , 2012, , 232-259. | | 0 |
| 36 | Optimization in a Self-stabilizing Service Discovery Framework for Large Scale Systems. Lecture Notes in Computer Science, 2012, , 239-252. | 1.0 | 0 |

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|----|--|-----|-----------|
| 37 | Snap-Stabilizing Committee Coordination. , 2011, , . | | 3 |
| 38 | ASYMPTOTICALLY OPTIMAL DETERMINISTIC RENDEZVOUS. International Journal of Foundations of Computer Science, 2011, 22, 1143-1159. | 0.8 | 1 |
| 39 | Autour de l'autostabilisation. 1. Techniques gÃ©nÃ©ralisant l'approche. Techniques Et Sciences Informatiques, 2011, 30, 873-894. | 0.0 | 4 |
| 40 | Autour de l'autostabilisation. 2. Techniques spÃ©cialisant l'approche. Techniques Et Sciences Informatiques, 2011, 30, 895-922. | 0.0 | 3 |
| 41 | Leader Election Problem versus Pattern Formation Problem. Lecture Notes in Computer Science, 2010, , 267-281. | 1.0 | 39 |
| 42 | SNAP-STABILIZING PREFIX TREE FOR PEER-TO-PEER SYSTEMS. Parallel Processing Letters, 2010, 20, 15-30. | 0.4 | 13 |
| 43 | Best-effort group service in dynamic networks. , 2010, , . | | 7 |
| 44 | Deterministic Robot-Network Localization is Hard. IEEE Transactions on Robotics, 2010, 26, 331-339. | 7.3 | 23 |
| 45 | Optimal Probabilistic Ring Exploration by Semi-synchronous Oblivious Robots. Lecture Notes in Computer Science, 2010, , 195-208. | 1.0 | 20 |
| 46 | Snap-Stabilizing Linear Message Forwarding. Lecture Notes in Computer Science, 2010, , 546-559. | 1.0 | 3 |
| 47 | Space-Optimal Deterministic Rendezvous. , 2009, , . | | 0 |
| 48 | SCATTER OF ROBOTS. Parallel Processing Letters, 2009, 19, 175-184. | 0.4 | 20 |
| 49 | Self-stabilizing Deterministic Gathering. Lecture Notes in Computer Science, 2009, , 230-241. | 1.0 | 18 |
| 50 | Deaf, Dumb, and Chatting Asynchronous Robots. Lecture Notes in Computer Science, 2009, , 71-85. | 1.0 | 10 |
| 51 | Synchronous vs. Asynchronous Unison. Algorithmica, 2008, 51, 61-80. | 1.0 | 14 |
| 52 | Space efficient and time optimal distributed BFS tree construction. Information Processing Letters, 2008, 108, 273-278. | 0.4 | 15 |
| 53 | On the solvability of the localization problem in robot networks. , 2008, , . | | 6 |
| 54 | Self-Stabilization in Tree-Structured Peer-to-Peer Service Discovery Systems. , 2008, , . | | 11 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Circle formation of weak mobile robots. ACM Transactions on Autonomous and Adaptive Systems, 2008, 3, 1-20. | 0.4 | 36 |
| 56 | Self-stabilizing wavelets and π -hops coordination. Parallel and Distributed Processing Symposium (IPDPS), Proceedings of the International Conference on, 2008, , . | 1.0 | 1 |
| 57 | Squaring the Circle with Weak Mobile Robots. Lecture Notes in Computer Science, 2008, , 354-365. | 1.0 | 9 |
| 58 | Optimal snap-stabilizing depth-first token circulation in tree networks. Journal of Parallel and Distributed Computing, 2007, 67, 1-12. | 2.7 | 16 |
| 59 | Snap-stabilization and PIF in tree networks. Distributed Computing, 2007, 20, 3. | 0.7 | 47 |
| 60 | Circle formation of weak robots and Lyndon words. Information Processing Letters, 2007, 101, 156-162. | 0.4 | 23 |
| 61 | Robots and Demons (The Code of the Origins). Lecture Notes in Computer Science, 2007, , 108-119. | 1.0 | 5 |
| 62 | Swing Words to Make Circle Formation Quiescent. , 2007, , 166-179. | | 12 |
| 63 | Deterministic Leader Election in Anonymous Sensor Networks Without Common Coordinated System. , 2007, , 132-142. | | 7 |
| 64 | Snap-Stabilizing Prefix Tree for Peer-to-Peer Systems. Lecture Notes in Computer Science, 2007, , 82-96. | 1.0 | 4 |
| 65 | Toward a Time-Optimal Odd Phase Clock Unison in Trees. Lecture Notes in Computer Science, 2006, , 137-151. | 1.0 | 1 |
| 66 | Snap-Stabilizing Depth-First Search on Arbitrary Networks. Lecture Notes in Computer Science, 2005, , 267-282. | 1.0 | 6 |
| 67 | When graph theory helps self-stabilization. , 2004, , . | | 55 |
| 68 | Autostabilisation et protocoles rÃ©seau. Techniques Et Sciences Informatiques, 2004, 23, 1027-1056. | 0.0 | 2 |
| 69 | Self-Stabilizing Atomicity Refinement Allowing Neighborhood Concurrency. Lecture Notes in Computer Science, 2003, , 102-112. | 1.0 | 15 |
| 70 | Fast Self-Stabilizing Depth-First Token Circulation. Lecture Notes in Computer Science, 2001, , 200-215. | 1.0 | 10 |
| 71 | Self-stabilizing depth-first token circulation in arbitrary rooted networks. Distributed Computing, 2000, 13, 207-218. | 0.7 | 36 |
| 72 | OPTIMALITY AND SELF-STABILIZATION IN ROOTED TREE NETWORKS. Parallel Processing Letters, 2000, 10, 3-14. | 0.4 | 7 |

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|----|---|-----|-----------|
| 73 | OPTIMALITY AND SELF-STABILIZATION IN ROOTED TREE NETWORKS. Parallel Processing Letters, 1999, 09, 313-323. | 0.4 | 0 |
| 74 | A space-efficient and self-stabilizing depth-first token circulation protocol for asynchronous message-passing systems. Lecture Notes in Computer Science, 1997, , 476-479. | 1.0 | 8 |