

Arie Fouren, PhD

CURRICULUM VITAE AND LIST OF PUBLICATIONS

Personal Details

Name: Arie Fouren

Date and place of birth: 1973, Russia

Date of immigration: 1994

Marital Status: Married + 7 children

Military service: 1995-1998 (Academic Reserves)

Current position: Senior Lecturer, Faculty Member at the Department of Business Administration, School of Computer Science and Information Systems, Ono Academic College, Israel

Address (W): Faculty of Business Administration, Ono Academic College, 104 Zahal Street, Kiryat Ono, 55000, Israel

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Education

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| 2001 | Ph.D. Computer Science, Department of Computer Science, Technion, Haifa.
Title of Ph.D. Thesis: Adaptive Wait-Free Algorithms for Asynchronous Shared-Memory Systems.
Supervisor: Prof. Hagit Attiya. |
| 1999 | M.A. Computer Science, Department of Computer Science, Technion, Haifa.
Thesis: Adaptive Wait-Free Algorithms for Shared Memory.
Supervisor: Prof. Hagit Attiya. |
| 1994 | B. Sc. Information and Computer Systems, Chelyabinsk State University, Russia |

Publications

1. The names of the authors appear in the alphabetic order.
2. Citations: Web of Science (ISI): 124, Google Scholar: 537, Research Gate: 427
3. H-Index: Web of Science (ISI): 4, Google Scholar: 8, Research Gate: 10
4. Profiles: Google Scholar:
https://scholar.google.co.il/citations?user=5Y_tXEAAAAJ&hl=en&oi=a
o , Research Gate: <https://www.researchgate.net/profile/Arie-Fouren>
ORCID <https://orcid.org/0009-0006-8709-8937>

Refereed articles in scientific journals:

1. **Attiya, H., Fouren, A. & Ko, J. Lower Bounds on the Amortized Time Complexity of Shared Objects. Theory of Computing Systems (TOCS) (2024).** <https://doi.org/10.1007/s00224-024-10184-w>
IF (2023): 0.6
2. **H. Attiya and A. Fouren: "Poly-Logarithmic Adaptive Algorithms Require Revealing Primitives". *Journal of Parallel and Distributed Computing*, June 2017.** <https://doi.org/10.1016/j.jpdc.2017.05.010>
IF 2021: 4.542
Google Scholar citations: 1
ISI citations: 0
3. **H. Attiya and A. Fouren, "Algorithms Adapting to Point Contention", *Journal of the ACM*, Vol. 50, No. 4 (July 2003), pp. 444-468.** <https://doi.org/10.1145/792538.792541>
IF 2021: 2.269
Google Scholar citations: 77
ISI citations: 41
4. **H. Attiya, A. Fouren and E. Gafni, "An Adaptive Collect Algorithm with Applications", *Distributed Computing*, Vol. 15, No. 2 (2002),**

pp. 87-96. <https://doi.org/10.1007/s004460100067>

IF 2021: 1.937

Google Scholar citations: 81

ISI citations: 27

5. **H. Attiya and A. Fouren: "Adaptive and Efficient Wait-Free Algorithms for Lattice Agreement and Renaming", *SIAM Journal on Computing*, Vol. 31, No. 2 (2001), pp. 642-664.**

<https://doi.org/10.1137/S0097539700366000>

IF 2021: 1.475

Google Scholar citations: 85

ISI citations: 40

Conference proceedings

6. **H. Attiya and A. Fouren : "Lower Bounds on the Amortized Time Complexity of Shared Objects". Leibniz International Proceedings in Informatics (LIPIcs) Vol. 95. 2018.**

<http://dx.doi.org/10.4230/LIPIcs.OPODIS.2017.16>

Conference version of the paper is published in the Proceedings of 21st International Conference on Principles of Distributed Systems (OPODIS 2017).

IF 2021: 0.850

Google Scholar citations: N/A

ISI citations: N/A

7. **H. Attiya and A. Fouren: "Poly-Logarithmic Adaptive Algorithms Require Unconditional Primitives". *LIPIcs-Leibniz International Proceedings in Informatics* Vol. 46. 2016.**

<http://dx.doi.org/10.4230/LIPIcs.OPODIS.2015.36>

Conference version of the paper is published in the Proceedings of 19th International Conference on Principles of Distributed Systems (OPODIS 2015).

IF 2021: 0.85

Google Scholar citations: N/A

ISI citations: N/A

8. **H. Attiya and A. Fouren: "Polynomial and Adaptive Long-Lived (2k-1) Renaming" (Best Student Paper Award). In Proceedings of International Symposium on Distributed Computing (DISC) 2000, pages 149—163. Herlihy, Maurice – editor. Published by Springer-Verlag Berlin Heidelberg 2000**

https://link.springer.com/chapter/10.1007/3-540-40026-5_10

Impact Score 2021: 2.44

Google Scholar citations: 46

ISI citations: 16

9. **Y. Afek, H. Attiya, A. Fouren, G. Stupp and D. Touitou: "Long-Lived Renaming Made Adaptive", Proceedings of the 18th Annual ACM Symposium on Principles of Distributed Computing, 1999.**

<https://doi.org/10.1145/301308.301335>

Impact Score 2021: 2.90

"A+" in 2007 Australian Ranking of ICT Conferences

Google Scholar citations: 105

ISI citations: N/A

10. **Afek, Y., Attiya, H., Fouren, A., Stupp, G., & Touitou, D. (1999). Adaptive long-lived renaming using bounded memory. Submitted to DISC99.**

<https://scholar.google.com/scholar?cluster=1249220354135071620&hl=en&oi=scholar>

Google Scholar citations: 6

ISI citations: N/A

11. **H. Attiya and A. Fouren: "Adaptive and Efficient Wait-Free Algorithms for Lattice Agreement and Renaming," Proceedings of the 17th Annual ACM Symposium on Principles of Distributed Computing, 1998. <https://doi.org/10.1145/277697.277749>**

Impact Score 2021: 2.90

"A+" in 2007 Australian Ranking of ICT Conferences

Google Scholar citations: 48

ISI citations: N/A

Technical Reports

12. A. Fouren. Adaptive Wait-Free Algorithms for Asynchronous Shared-Memory Systems. Ph.D. Thesis. Technion-Israel Institute of Technology, Faculty of Computer Science, 2001.

Google Scholar citations: 3

ISI citations:

13. H. Attiya and A. Fouren. Adaptive long-lived renaming with read and write operations. CS Technion report CS0956. Computer Science Department, Technion, 1999.

<http://www.cs.technion.ac.il/users/wwwb/cgi-bin/tr-info.cgi/1999/CS/CS0956>

Google Scholar citations: 18

ISI citations:

14. A. Fouren "Exponential examples for two renaming algorithms."

Technion Tech Report (1999). Google Scholar citations: 7.

https://scholar.google.co.il/citations?view_op=view_citation&hl=en&user=5Y_tXEAAAAJ&citation_for_view=5Y_tXEAAAAJ:zYLM7Y9cAGgC

Google Scholar citations: 7

ISI citations:

Lecture notes

15. Introduction to Mathematics for Economics and Business (Lecture notes). Joint work with Dr. Ofir Ben Assuli (OAC) and Dr. Lior Amsalem (OAC).

Research in progress

Adaptive distributed algorithms for asynchronous shared memory systems. Time and memory upper and lower bounds. Joint work with Prof. Hagit Attiya, Technion, Haifa.

Using the results and techniques from Extremal Combinatorics and Extremal Graph Theory in Distributed Computing.

Presentations on International Scientific Conferences

Paper	Conference	Country
H. Attiya and A. Fouren : "Lower Bounds on the Amortized Time Complexity of Shared Objects"	21st International Conference on Principles of Distributed Systems (OPODIS 2017)	Lisbon, Portugal
H. Attiya and A. Fouren: "Poly-Logarithmic Adaptive Algorithms Require Unconditional Primitives"	19st International Conference on Principles of Distributed Systems (OPODIS 2015)	Rennes, France
H. Attiya and A. Fouren. "Polynomial and Adaptive Long-Lived $(2k-1)$ Renaming" (Best Student Paper Award).	International Symposium on Distributed Computing (DISC) 2000	Toledo, Spain
Y. Afek, H. Attiya, A. Fouren, G. Stupp and D. Touitou: "Long-Lived Renaming Made Adaptive".	18th Annual ACM Symposium on Principles of Distributed Computing, 1999	Atlanta Georgia USA

Employment History

- 2001 - Present Senior Lecturer, Faculty Member at the Department of
Business Administration, Ono Academic College, Israel
- Partial time lecturer: Bar-Ilan University, Jerusalem college
of Technology, Shamoon College of Engineering, Holon
Institute of Technology
- 1995-1998 Teaching Assistant, Faculty of Computer Science
Technion, Haifa, Israel

Courses taught:

Graduate Courses

Loss Reserving and Financial Engineering (Stochastic Calculus and Actuarial
Mathematics CM2)
Randomized Algorithms
Distributed Algorithms
Programming for Multi-processes Systems (with Java)
Advanced Algorithms

Undergraduate Courses

Computation and Complexity
Automata and Formal Languages
Computational Theory
Discrete Math 1, 2
Data Structures 1, 2
Linear Algebra 1
Calculus for Computer Science 1
Object-Oriented Programming with Java
Object-Oriented Programming with C++
Introduction to Computer Science with C++
System Design and CASE Tools
Databases
Computer Architecture

Mathematics for Business

Quantitative Methods for Information Systems Management

Calculus for Business

Computer Concepts

Introduction to Management Information Systems

Management Information Systems and e-Commerce

Macroeconomics

Professional Activities

Journal and Conference Proceedings Reviewer:

The Journal of Distributed Computing 2000, 2024

The Journal of Association of Computer Machinery (ACM)

Conference on Principles of Distributed Systems (OPODIS) 2023

Development of e-Learning course "Introduction to Math for Business". 2023. Joint work with WebAcademics.

ERASMUS+ Research project: Design of Introductory Math Course and Student Support System for Distance Learning. Joint work with Tsipi Hart, Itzik Gnizi, Sara Telleman and Eyal Layfer, Ono Academic College.

Development and implementation of e-Learning course "Computer Concepts for Business and Law".

Integration of e-Learning tools and platforms (WeBWork and WebAssign) in teaching math.

Awards, Honors, Fellowships

Honors and Awards

2021	Excellence in Teaching Award, Ono Academic College
2020	Excellence in Teaching Award, Ono Academic College
2020	Excellence in Teaching Award, Bar Ilan University
2019	Excellence in Teaching Award, Shamoon College of Engineering
2010	Excellence in Teaching Award, Ono Academic College

2000	Best Student Paper Award, 14 th International Conference on Distributed Computing (DISC2000), Toledo, Spain
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Fellowships

Since 2016	Association of Computing Machinery (ACM) Professional Membership
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1994	Microsoft Certified Product Specialist
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