

# 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

Regular military service: 1995-1998 (Academic Reserves)

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

### Publications

Refereed articles in scientific journals

1. 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>

2. H. Attiya and A. Fouren, "Algorithms Adapting to Point Contention", *Journal of the ACM*, Vol. 50, No. 4 (July 2003), pp. 444-468.
3. H. Attiya, A. Fouren and E. Gafni, "An Adaptive Collect Algorithm with Applications", *Distributed Computing*, Vol. 15, No. 2 (2002), pp. 87-96.
4. 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.

#### Conference proceedings

5. 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>
6. 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>
7. H. Attiya and A. Fouren: "Polynomial and Adaptive Long-Lived (2k-1) Renaming", Proceedings of the 14<sup>th</sup> International Conference on Distributed Computing, 2000. (Best student paper award).
8. Y. Afek, H. Attiya, A. Fouren, G. Stupp and D. Touitou: "Long-Lived Renaming Made Adaptive," Proceedings of the 18<sup>th</sup> Annual ACM Symposium on Principles of Distributed Computing, 1999.
9. Y. Afek, H. Attiya, A. Fouren, G. Stupp and Dan Touitou: "Adaptive Long-Lived Renaming Using Bounded Memory (Extended Abstract).

Proceedings of the 40th IEEE Ann. Symp. on Foundations of Computer Science. 1999.

10. H. Attiya and A. Fouren: "Adaptive and Efficient Wait-Free Algorithms for Lattice Agreement and Renaming," Proceedings of the 17<sup>th</sup> Annual ACM Symposium on Principles of Distributed Computing, 1998.

#### Lecture notes

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

### **Employment History**

2001 - Present    Lecturer, Faculty Member at the Department of Business Administration, Ono Academic College, Israel

Partial time and Guest Lecturer: Bar-Ilan University,  
Jerusalem college of Technology, Shamoon College of  
Engineering

1995-1998        Teaching Assistant, Faculty of Computer Science  
Technion, Haifa, Israel

### **Courses taught**

#### **Graduate Courses**

Randomized Algorithms

Distributed Algorithms

Advanced Algorithms

#### **Undergraduate Courses**

Computation and Complexity

Automata and Formal Languages  
Computational Theory  
Discrete Math 1, 2  
Data Structures 1, 2  
Calculus for Computer Science  
Object-Oriented Programming with Java  
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 Administration  
Computer Concepts  
Introduction to Management Information Systems  
Management Information Systems and e-Commerce  
Macroeconomics

### **Present Academic Activities**

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.

### **Professional Activities**

Journal Reviewer  
*The Journal of Distributed Computing*  
*The Journal of Association of Computer Machinery (ACM)*

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

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

### **Awards, Honors, Fellowships**

## Honors, Citation Awards

- 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<sup>th</sup> International Conference on Distributed Computing (DISC2000), Toledo, Spain

## Fellowships

- 2016 Association of Computing Machinery (ACM) Professional

## Membership

- 1994 Microsoft Certified Product Specialist