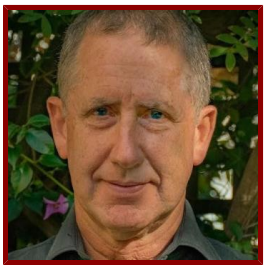
Stanford



Yoav Shoham

Professor of Computer Science, Emeritus

Bio

BIO

Yoav Shoham is professor emeritus of computer science at Stanford University. A leading AI expert, Prof. Shoham is Fellow of AAAI, ACM and the Game Theory Society. Among his awards are the IJCAI Research Excellence Award, the AAAI/ACM Allen Newell Award, and the ACM/SIGAI Autonomous Agents Research Award. His online Game Theory course has been watched by close to a million people. Prof. Shoham has founded several AI companies, including TradingDynamics (acquired by Ariba), Katango and Timeful (both acquired by Google), and AI21 Labs. Prof. Shoham also chairs the AI Index initiative (www.AIindex.org), which tracks global AI activity and progress, and WeCode (www.wecode.org.il), a nonprofit initiative to train high-quality programmers from disadvantaged populations.

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Computer Science

HONORS AND AWARDS

- Research Excellence Award, IJCAI (2019)
- Fellow, Game Theory Society (2018)
- Feigenbaum Prize, AAAI (2017)
- Allen Newell Award, AAAI/ACM (2013)
- Fellow, ACM (2013)
- Influential Paper Award, AAMAS (2011)
- Best Paper Award, ACM Conference on Electronic Commerce (2010)
- Best Paper Award, ACM Conference on Electronic Commerce (2009)
- Autonomous Agents Research Award, ACM/SIGART (2008)
- Charter member of the Game Theory Society, International Game Theory Society (2008)
- Fellow, Association for the Advancement of Artificial Intelligence (2002)

PROGRAM AFFILIATIONS

- Symbolic Systems Program

PROFESSIONAL EDUCATION

- PhD, Yale (1986)

Publications

PUBLICATIONS

- **On equilibria in games with imperfect recall** *GAMES AND ECONOMIC BEHAVIOR*
  Lambert, N. S., Marple, A., Shoham, Y.
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- **Toward the AI Index** *AI MAGAZINE*
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- **Cause for Celebration, Cause for Concern.** *Heuristics, Probability and Causality: a Tribute to Judea Pearl*
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- **Joint Revision of Belief and Intention.**
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- **Logical Theories of Intention and the Database Perspective** *JOURNAL OF PHILOSOPHICAL LOGIC*
  Shoham, Y.
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- **Empirical Hardness Models: Methodology and a Case Study on Combinatorial Auctions** *JOURNAL OF THE ACM*
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- **Ranking games** *ARTIFICIAL INTELLIGENCE*
  Brandt, F., Fischer, F., Harrenstein, P., Shoham, Y.
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- **Analysis of a Winning Computational Billiards Player** *21st International Joint Conference on Artificial Intelligence (IJCAI-09)*
  Archibald, C., Altman, A., Shoham, Y.
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- **Introduction to Noncooperative Game Theory: Games in Normal Form** *MULTIAGENT SYSTEMS: ALGORITHMIC, GAME-THEORETIC, AND LOGICAL FOUNDATIONS*
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- **Learning the Empirical Hardness of Optimization Problems: the case of combinatorial auctions** *In Constraint Programming.*
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