Annual IEEE Symposium on Foundations of Computer Science 2024

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Abstract

We will write this at the end

Introduction

The FOCS conference or IEEE Annual Symposium on Foundations of Computer Science is an academic conference that covers a broad range of theoretical computer science. It is sponsored by the IEEE Computer Science Technical Committe on the Mathematical Foundations of Computing (TCMF) [1].

The FOCS 2024 took place in Chicago - Voco Chicago Downtown, from October 27-30, 2024 [2]. It covered a variety of topics, for submissions the following were mentioned [2]:

- Communication complexity
- Circuit complexity
- Average-case algorithms and complexity
- High-dimensional algorithms
- Online algorithms
- Parametrized algorithms
- Spectral methods
- Streaming algorithms
- Randomized algorithms
- Cryptography
- Computational complexity
- Algorithms and data structures
- Quantum computing
- Foundations of machine learning
- Algorithmic coding theory
- Sublinear algorithms
- Algorithmic graph theory
- Continuous optimization
- Foundations of fairness, privacy and databases
- Pseudorandomness and derandomization
- Markov chains
- Analysis of Boolean functions
- Economics and computation
- Combinatorial optimization
- Algebraic computation
- Approximation algorithms
- Parallel and distributed algorithms
- Computational learning theory
- Computational geometry
- Algorithmic game theory
- Combinatorics

The official welcome message of FOCS 2024 states that nearly 500 papers were submitted, but does not specify the exact number, out of which 133 were accepted and 131 were presented as talks during the event.

In the following three sections we present three curated papers from the conference... (dopisemo na koncu ko vemo katere)

Paper 1

Hi, I'm paper 1!

Computing the 3-Edge-Connected Components of Directed Graphs in Linear Time

Hi, I'm paper 2!

Paper 3

Hi, I'm paper 3!

References

[1] IEEE Symposium on Foundations of Computer Science, *Ieee focs conference*, Accessed: 2025-02-27, 2024. [Online]. Available: `https://ieee-focs.org`.

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[2] IEEE Symposium on Foundations of Computer Science, *Focs 2024 - 65th annual ieee symposium on foundations of computer science*, Accessed: 2025-02-27, 2024. [Online]. Available: `https://focs.computer.org/2024/`.