In the 50 years since its inception, the ICALP conference has evolved in pace with the scientific advances and the growth and maturation of the Theoretical Computer Science community. This poster, based on an analysis of DBLP data, provides a bird's eye view of that evolution.

**ICALP Topics**

Throughout its fifty-year lifetime, ICALP has provided a broad coverage of topics in Theoretical Computer Science. How has the relevance of research topics within the theoretical computer science community changed since 1971?

- **Algorithm** - search, graph, computation, complexity, logic
- **Data** - structures, networks, databases, algorithms
- **Computational** - complexity, efficiency, optimization, analysis
- **Theory** - algorithms, data structures, complexity, logic
- **Mathematics** - discrete mathematics, linear algebra, combinatorics
- **Applications** - biology, social networks, economics, etc.

Percentage of full papers where each mentioned the area, algorithm, complexity, combinatorics, or logic.

**ICALP Authorship**

Like other major conferences in Theoretical Computer Science, the authorship at ICALP tends to stabilize over time.

- **Number of authors per year**: The distribution of the number of authors per year shows a trend towards stabilization.
- **Number of papers with each authorship size**: Paper sizes with less than four authors have gradually become more common than single-author papers.
- **Percentage of new authors per year**: Every year, approximately half the authors at FOCS conferences are new to the dataset.
- **Ratio of women over men among authors**: 40% for almost all FOCS conferences in 2020.