

Computational Geometry Papers Analysis

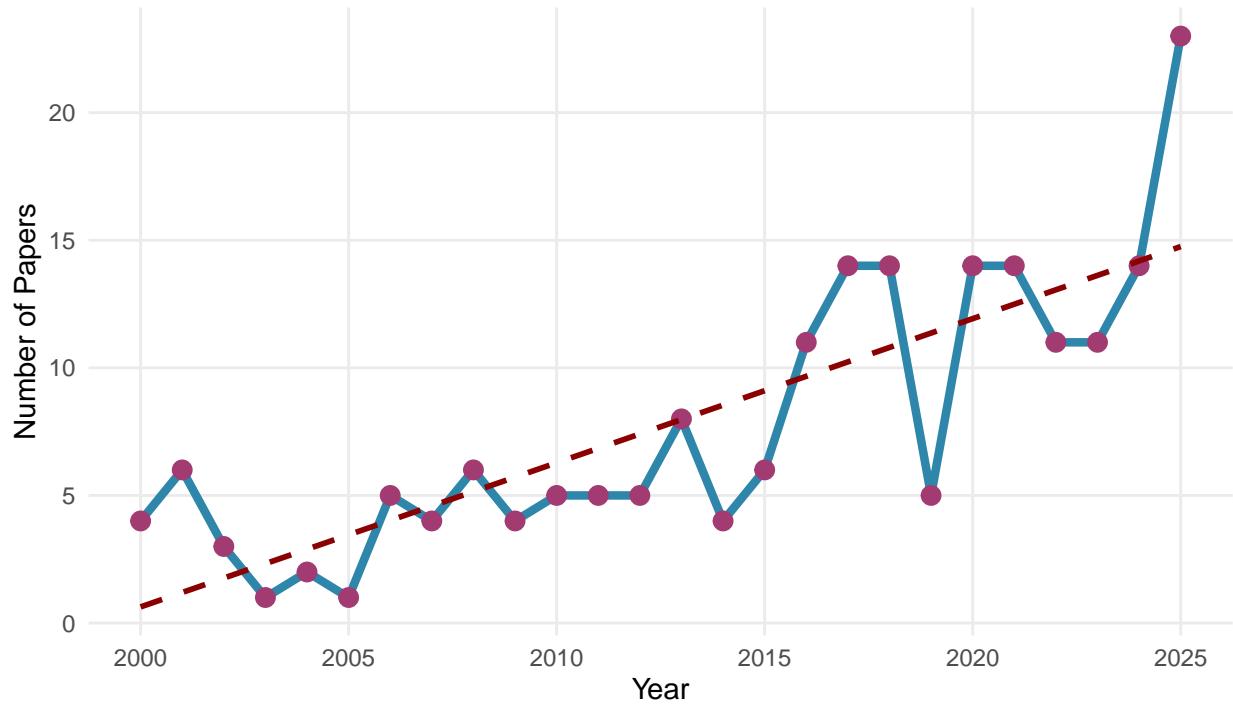
Benjamin, Estoce, Jimenez, Hallares

December 1, 2025

```
## === ARXIV COMPUTATIONAL GEOMETRY ANALYSIS ===
##
## Extracting data from arXiv...
## Found 200 papers
##
## === ANALYSIS SUMMARY ===
## Total papers: 200
## Year range: 2000 - 2025
##
## Papers per year:
## # A tibble: 26 x 2
##       year   count
##   <dbl> <int>
## 1 2000     4
## 2 2001     6
## 3 2002     3
## 4 2003     1
## 5 2004     2
## 6 2005     1
## 7 2006     5
## 8 2007     4
## 9 2008     6
## 10 2009    4
## # i 16 more rows
##
## Creating time series plot...
```

Computational Geometry Papers on arXiv – Time Series

Total Papers Analyzed: 200



Data source: arXiv.org | Search: Computational Geometry in Title

```
##  
## === OUTPUT FILES SAVED ===  
## 1. computational_geometry_timeline.png - Time series plot  
## 2. computational_geometry_papers.csv - All paper data  
## 3. yearly_paper_counts.csv - Yearly summary  
##  
## === SAMPLE OF PAPERS (5 most recent) ===  
##  
## -----  
## PAPER 1  
## Title: The Geometry of Cortical Computation: Manifold Disentanglement and Predictive Dynamics in VCN  
## Year: 2025  
## Authors: Brennen A. Hill,  
##  
##     Zhang Xinyu,  
##     ...  
##  
## -----  
## PAPER 2  
## Title: Quantum computation of molecular geometry via many-body nuclear spin echoes  
## Year: 2025  
## Authors: C. Zhang,  
##  
##     R. G. Cortiñas,  
##  
##     ...  
##
```

```
## -----
## PAPER 3
## Title: Computing entanglement costs of non-local operations on the basis of algebraic geometry
## Year: 2025
## Authors: Seiseki Akibue,
##
##           Jisho Miyazaki,
##
## ...
##
## -----
## PAPER 4
## Title: Algorithms for Dynamic Computational Geometry with Applications
## Year: 2025
## Authors: Laurence Boxer ...
##
## -----
## PAPER 5
## Title: Large-scale Efficient Molecule Geometry Optimization with Hybrid Quantum-Classical Computing
## Year: 2025
## Authors: Yajie Hao,
##
##           Qiming Ding,
##
## ...
.
```