

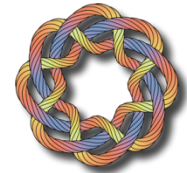


Assembling the SOSP Archive

Andrew Birrell

Microsoft Research, Silicon Valley

How it Started



- Ted Wobber: “Will you do an SOSP flash disk?”
- Me: “Sure.”
- Me: “How about I include copies of the papers from previous SOSPs too?”
- Me (thinks): “All I do is download it from ACM”

“All I Do Is Download It from ACM ...”



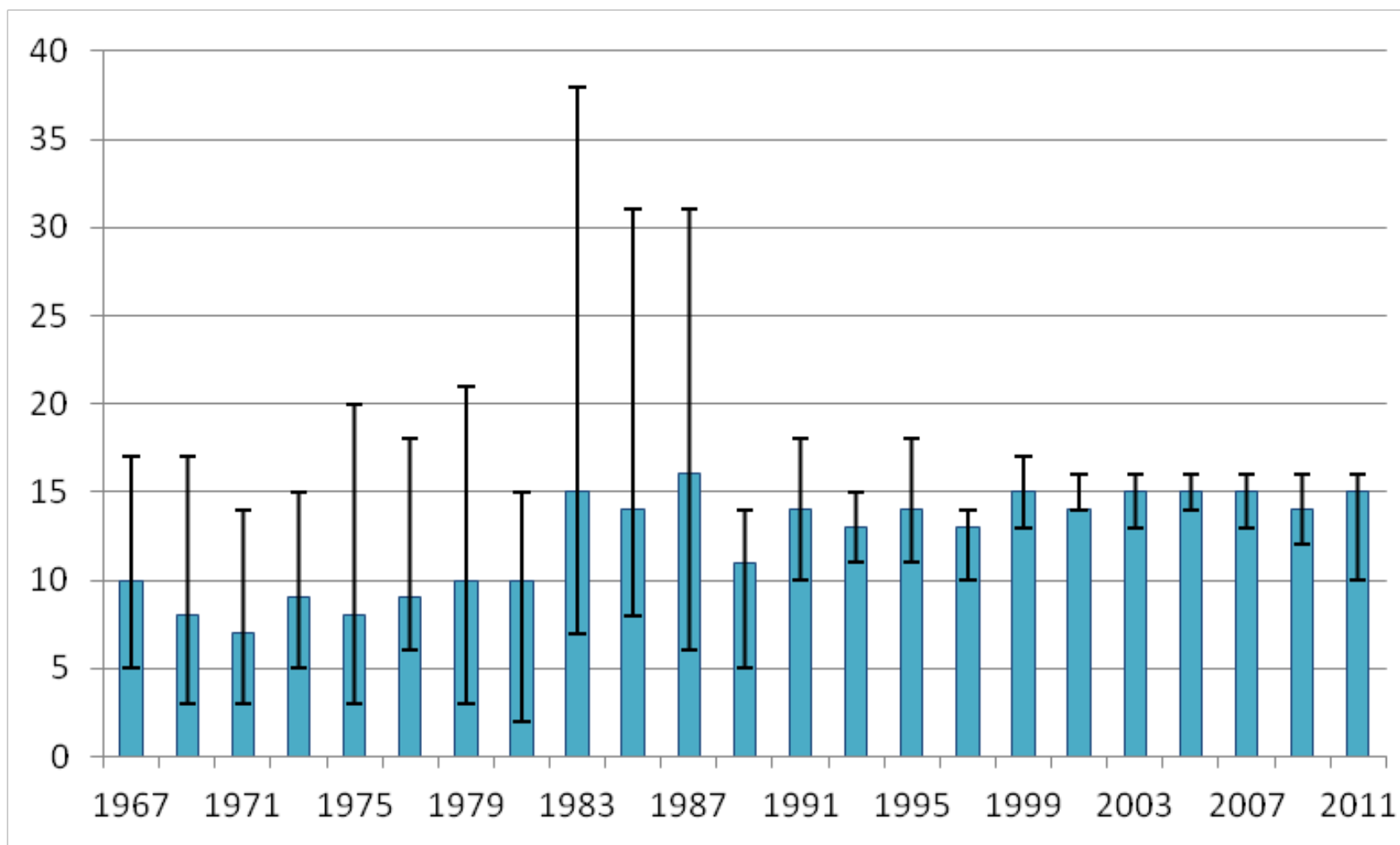
- 4 papers mysteriously missing
- *Gaines (1975)*: never appeared in print
- Variety of errors and omissions

Bottom Line

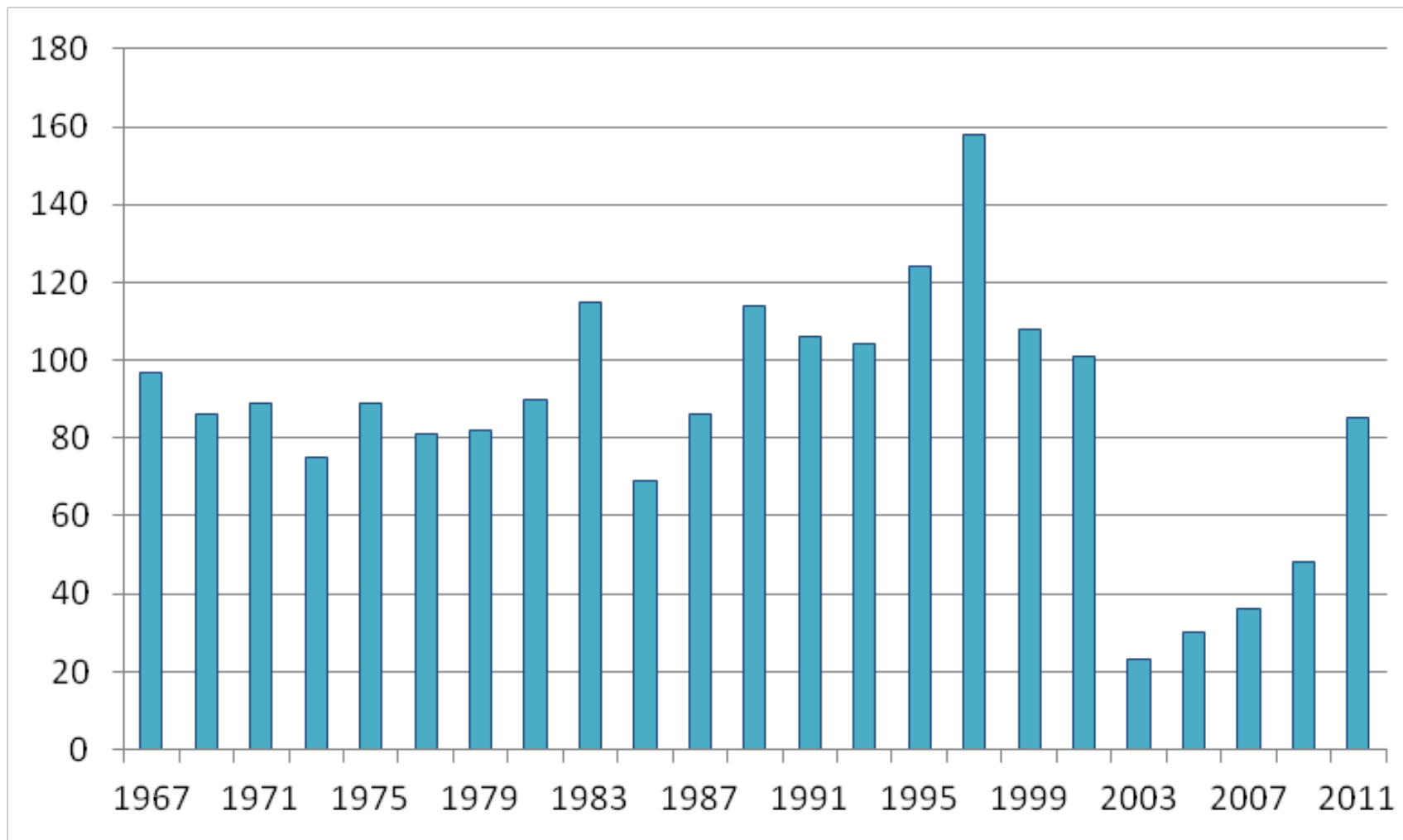
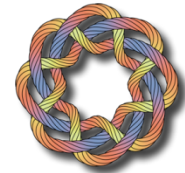


- 23 Conferences, 1967–2011
- 500 refereed papers
- 6091 pages
- 528 million bytes of PDF
- An entire history of operating system research

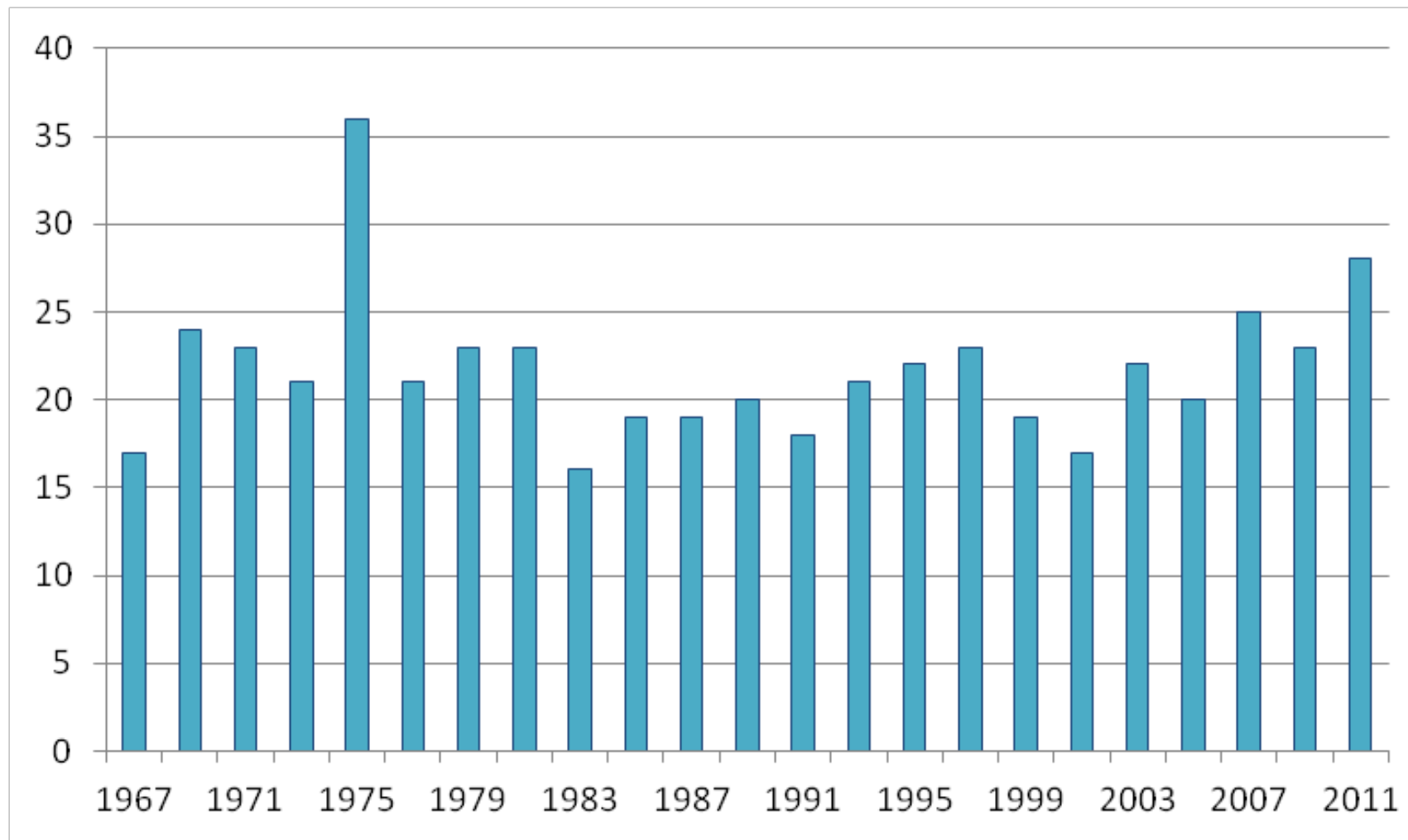
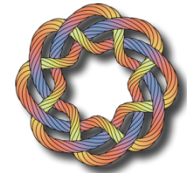
Pages per Paper, by Year



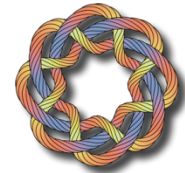
Kbytes per Page, by Year



Total Papers, by Year

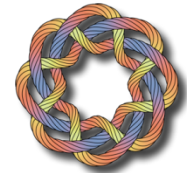


Best-fit Order-22 Polynomial



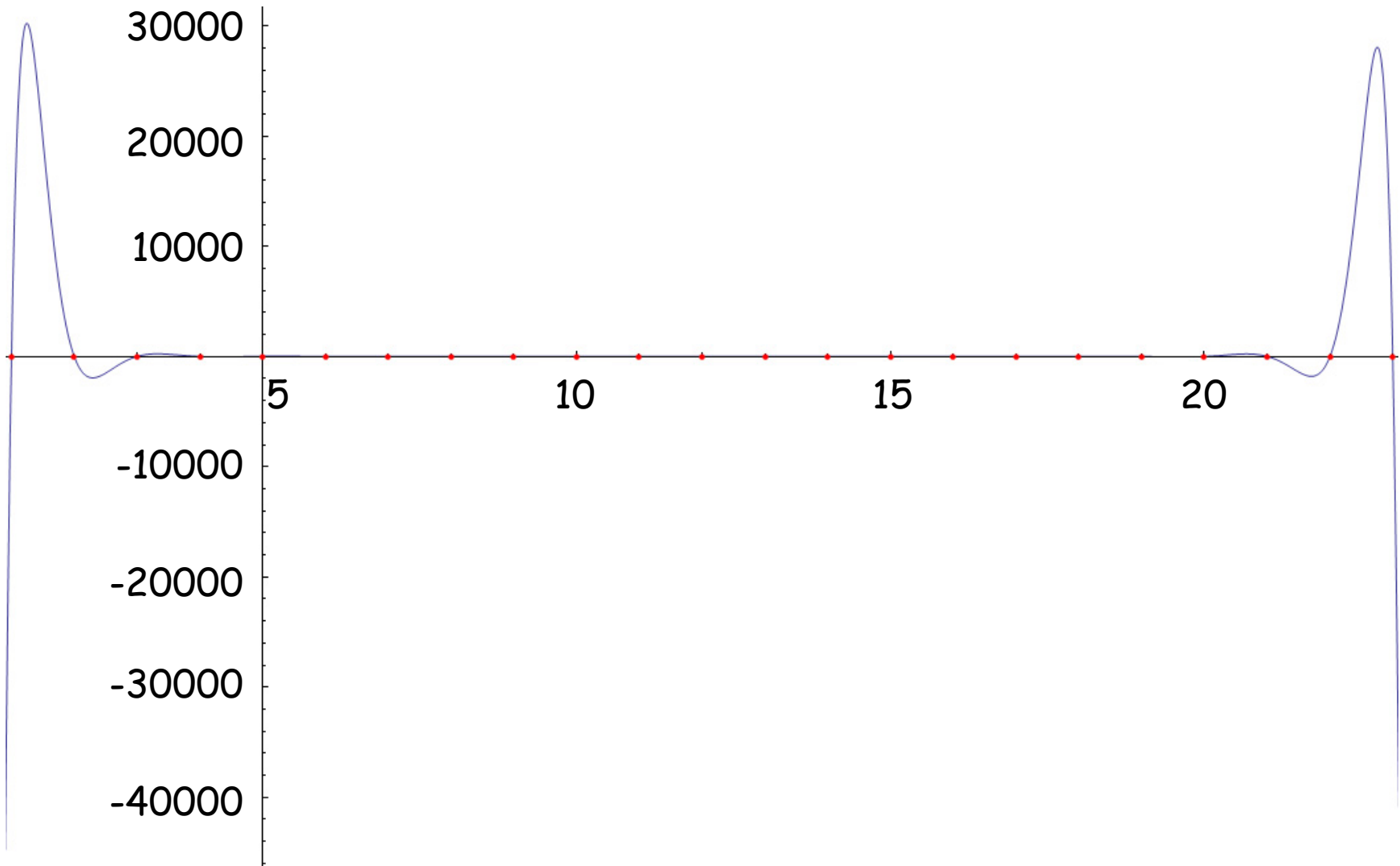
- $p(x) = \text{papers at the } x^{\text{th}} \text{ SOSP} =$
 - $(83821 x^{22})/28820531481477120000 + (320809 x^{21})/417068915687424000$
 - $(66475823 x^{20})/695114859479040000 + (4338435337 x^{19})/583896481962393600$
 - $(1849904461 x^{18})/4573124075520000 + (420030824483 x^{17})/25609494822912000$
 - $(27091495095317 x^{16})/52725430517760000 + (11511333943019 x^{15})/903864523161600$
 - $(347405792013773 x^{14})/1369491701760000 + (37072271924991337 x^{13})/9038645231616000$
 - $(98606450169909287 x^{12})/1820972482560000 + (27128883118544321 x^{11})/46352026828800$
 - $(20995623275634019511 x^{10})/4055802347520000 + (527419324858148273 x^9)/14122883174400$
 - $(205573061982300533887 x^8)/941525544960000 + (115732590383211642707 x^7)/112983065395200$
 - $(4345760444244765781579 x^6)/1143281018880000 + (1458110911193252552053 x^5)/133382785536000$
 - $(31803508532623224012523 x^4)/1343932611840000 + (8122865748074690897 x^3)/219988969200$
 - $(50019460551210279341 x^2)/1290601952640 + (5621606296239911 x)/232792560 - 6620660$

Interpolating



- If we had held SOSP in 2010 ($x=22.5$):
 - 18,336.9 papers (approximately)
 - 100% confidence

Graphically ...

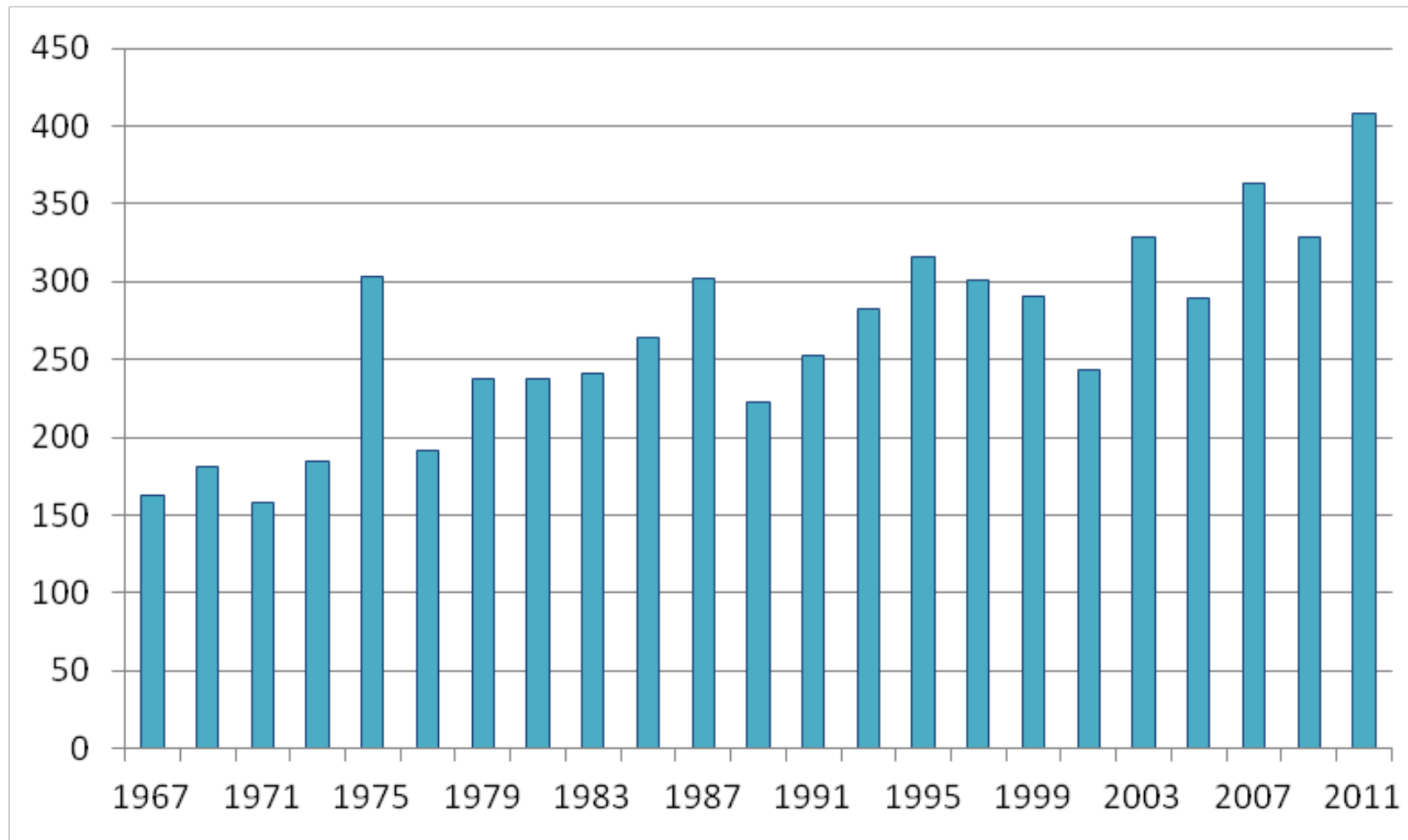


Extrapolating



- At the 24th SOSIP in 2013:
 - -6,165,340 papers (approximately)
 - 100% confidence

Total Pages in Each Conference





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