

# ACM papers of James Brakefield

Column header info at bottom

h\_by\_year entry

Date	Format	Topic	Author	Nature	Where	Web Link	Location	Title	Comments	Abstract
2/1/1983	pdf	uP Arch	JCB	paper	Open Channel	search on "ACM James Brakefield", free	Git hub	Address space unification	Virtual communications, Extensible machine language, The programmer's algebra	Computers show man's tendency to isolate things that are different in nature and later, as they are better understood, to unify these differences under a more general category.
12/1/1982	pdf	Forth	JCB	paper	Sigarch	search on "ACM James Brakefield", free	Git hub	Talk on interpreters	Forth generalizations, has the "C as bastard Pascal" comment	different kinds of inner interpreters for stack machines (Forth)
6/1/1982	pdf	uP Arch	JCB	paper	Sigarch	search on "ACM James Brakefield", free	Git hub	<b>Just what is an op-code?: or a universal computer design</b>	most cited of my papers	extensible machine langague
6/1/1982	pdf	uP Arch	JCB	paper	Sigarch	search on "ACM James Brakefield", free	Git hub	From the other side of the Atlantic: how to improve upon the MUS design	includes my address descriptors	where the MUS architecture leads
10/1/1980	pdf	Sys Arch	JCB	paper	Sigarch	search on "ACM James Brakefield", free	Git hub	The peripheral bus	strobed data bus	microprocessor peripheral bus
10/1/1980	pdf	uP Arch	JCB	paper	Sigarch	search on "ACM James Brakefield", free	Git hub	Is 32 bits of address too much?	my address descriptor idea	memory descriptor encoding for unsigned, signed and floating-point, bit, two bit and four bit alignment, power of two sizes
1/1/1972	scan pdf	flt-g-pt	JCB	paper	Sigarch	<a href="https://github.com/jimbrake/Slides-Papers-Reports">https://github.com/jimbrake/Slides-Papers-Reports</a>	Git hub	An Optimal Floating Point Format	grad student at UW Madison	Floats with exponent and mantissa signs in the middle allowing zero extension on both ends

Number of Ys

These seven papers are available free from ACM. Three others are listed and not free.

search on "ACM James Brakefield", free

Brakefield's ACM publications, citations and downloads

Many of the ACM papers were first given as DECUS talks

7 citations, 1339 total downloads, 1980 to 1991

Column A Y if in directory "each\_by\_year" and slides or paper present

Column B Date presentation date or publication date

Column C Format powerpoint, PDF, txt, scanned pdf, docx, doc, xlsx, xilinx ISE project

Column D Topic one or two words

Column E Author JCB: James C. Brakefield, others as listed in comments

Column F Nature info (STEM level presentation), course, paper, patent, report

Column G Where Where presented, often IEEE Lonestar section at LMAG or Computer chapter

Column H Web Link Web page for paper or presentation

Column I location Location of slides/paper: listed Web page, Github (github/jimbrake), opencores.org, other

Column J Title Web page title and pptx file title may differ

Column K Comments Side information

Column L Abstract Culled from web page announcement or source file