Papers I Love

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1 Computer Science

1.1 Algorithms

1.1.1 Analysis

1. Recursive Algorithms in Computer Science Courses: Fibonacci Numbers and Binomial Coefficients

http://venus.cs.qc.edu/~waxman/cs211%20spring%202009/why%20is%20recursive%20fibonacci%20so%20slow.pdf

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1.1.2 Compression

 Data Compression Using Long Common Strings http://www.cs.brandeis.edu/~dilant/cs175/%5BSiying-Dong%5D.pdf

1.1.3 Hash

1. SHA-1 and the Strict Avalanche Criterion https://arxiv.org/pdf/1609.00616.pdf

1.1.4 Data Structures

1. Bitlist New Full-Text Index for Low Space Cost and Efficient Keyword Search

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1.1.5 Elections + Consensus

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- 2. The Part-Time Parliament http://research.microsoft.com/en-us/um/people/lamport/pubs/lamport-paxos.pdf
- 3. In Search of an Understandable Consensus Algorithm https://ramcloud.atlassian.net/wiki/download/attachments/6586375/raft.pdf

1.2 Architectures

1.2.1 Computer Architecture

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- 2. What Every Programmer Should Know About Memory https://people.freebsd.org/~lstewart/articles/cpumemory.pdf

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- 1. Enabling Multi-Tenancy an Industrial Experience Report http://swerl.tudelft.nl/twiki/pub/Main/TechnicalReports/TUD-SERG-2010-030.pdf
- 2. Multi-Tenant Saas Applications: Maintenance Dream or Nightmare http://swerl.tudelft.nl/twiki/pub/Main/TechnicalReports/TUD-SERG-2010-031.pdf
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http://academic.research.microsoft.com/Publication/1309313/architectural-styles-and-the-design-of-network-based-software-architectures http://www.ics.uci.edu/~fielding/pubs/dissertation/top.htm

1.2.4 SEDA

1. An Architecture for Highly Concurrent, Well-Conditioned Internet Services

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http://www.eecs.harvard.edu/~mdw/papers/mdw-phdthesis.pdf

1.2.5 Servers

1. Flash an Efficient and Portable Web Server https://www.usenix.org/event/usenix99/full_papers/pai/pai.pdf

1.2.6 Other Architectures

 The Monad Manifesto http://www.jsnover.com/Docs/MonadManifesto.pdf

2. The Hla Tutorial http://www.pitch.se/hlatutorial

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1. Active Object: An Object Behavioral Pattern for Concurrent Programming

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2. Plop Half-Sync/half-Async: An Architectural Pattern for Efficient and Well-Structured Concurrent I/o

http://www.cs.wustl.edu/~schmidt/PDF/PLoP-95.pdf

3. EASTL - Electronic Arts Standard Template Library http://www.open-std.org/jtc1/sc22/wg21/docs/papers/2007/n2271.html

1.2.8 Overlay Networks

1. Architectures for an Event Notification Service Scalable to Wide-Area Networks

http://academic.research.microsoft.com/Publication/314658/architectures-for-an-event-notification-service-scalable-to-wide-area-networks http://www.inf.usi.ch/carzaniga/papers/phd_thesis.pdf

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1.2.10 Process Algebra

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- Some of My Favourite Results in Classic Process Algebra (Version of September 9, 2003)
 https://www.researchgate.net/publication/228785318_Some_of_My_ Favourite_Results_in_Classic_Process_Algebra_Version_of_September_
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1.2.12 Resiliency

1. Adaptive Overload Control for Busy Internet Servers http://academic.research.microsoft.com/Publication/634136/adaptive-overload-control-for-busy-internet-servers http://www.eecs.harvard.edu/~mdw/papers/control-usits03.pdf

1.3 Programming Paradigms

1.3.1 Language Analysis

1. Evaluating the Design of the R Language http://r.cs.purdue.edu/pub/ecoop12.pdf

1.3.2 Process Theory

 A Brief History of Process Algebra http://alexandria.tue.nl/extra1/wskrap/publichtml/200402.pdf

1.3.3 Object Oriented

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1.3.4 Generic Programming

1. Design Patterns for Generic Programming in C++ https://www.lrde.epita.fr/dload/papers/coots01.html

1.3.5 Dynamic Dispatch

1.3.6 Functional Programming

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1.5 Data Fusion

1. A Generic Architecture for Fusion-Based Intrusion Detection Systems https://rcdeboer.home.xs4all.nl/rcdb_thesis.pdf

1.6 Artificial Intelligence

1. Computing Machinery and Intelligence http://orium.pw/paper/turingai.pdf

1.7 Text Mining

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 Richard Bellman's contributions to computer science http://www.sciencedirect.com/science/article/pii/0022247X86901460

2 Mathematics

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- 2. FLAME: Formal Linear Algebra Methods Environment http://tinyurl.com/ycxkmzw7
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2.2 Real Analysis

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 Forecasting Global Climate Change https://faculty.wharton.upenn.edu/wp-content/uploads/2015/02/ GlobalClimateChange-FWP-(2)_2.pdf

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 Why Most Published Research Findings Are False http://journals.plos.org/plosmedicine/article?id=10.1371/journal. pmed.0020124

4 Economy

4.1 Political Economy

4.1.1 Taxes

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