



ஸ்ரீநிவாஸன் கண்ணன்

श्रीनिवासन् कण्णन्

K.Srinivasan - CV and NeuronRain Features:

Shortest CV - LatexPDF -

https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27//CV.pdf Longest CV - PDF -

https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/CV_of_SrinivasanKannan_alias_KaShrinivaasan_alias_ShrinivasKannan.pdf

Longest CV - Text -

https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/CV_of_SrinivasanKannan_alias_KaShrinivaasan_alias_ShrinivasKannan.txt

Krishna iResearch Open Source Products -- open source research initiative of self (2003 -- Present)

Profile (SourceForge) - <https://sourceforge.net/u/userid-769929/profile/>

Profile (GitHub) - <https://github.com/shrinivaasanka>

Profile (GitLab) - <https://gitlab.com/shrinivaasanka>

Profile - OpenHub analyzer - https://www.openhub.net/accounts/ka_shrinivaasan

Profile (Atlassian) - JIRA and Wiki - <https://krishnairesearch.atlassian.net/>

**NeuronRain --
a new Machine Learning, Cloud and Messaging augmented OS:**



Krishna iResearch NeuronRain

NeuronRain Research - SourceForge Repositories - for astronomy datasets and academic research:

ACADPDRAFTS -Publications, Drafts - <https://sourceforge.net/projects/acadpdrafts/> and
<http://sourceforge.net/projects/acadpdrafts/files/?source=navbar>

VIRGO - VIRtual Generic Os Linux kernel forkoff (kernel modules,system calls etc.,) with cloud and
machine learning features (32 bit based on 4.1.5 mainline) - [https://sourceforge.net/projects/virgo-
linux/](https://sourceforge.net/projects/virgo-linux/)

VIRGO64 - <https://sourceforge.net/projects/virgo64-linux/>
- 64 bit version of previous VIRGO Linux kernel based on 4.13.3 mainline

USBmd - USB driver kernel module for network analytics, debugging etc., based on 32 bit 4.1.5 linux kernel - <https://sourceforge.net/projects/usb-md/>

USBmd64 - <https://sourceforge.net/p/usb-md64/>- USB driver kernel module for network analytics, debugging etc., based on 64-bit 4.13.3 linux kernel

ASFER - AStroinFER - <http://asfer.sourceforge.net/> -
BigData Analytics and Machine Learning Software for
Large Data Sets (at present implemented for Astronomical Datasets)

KINGCOBRA - <https://sourceforge.net/projects/kcobra/>
- Linux kernelspace messaging with miscellaneous applications based on 32bit 4.1.5 linux kernel

KINGCOBRA64 - <https://sourceforge.net/p/kcobra64/>
- Linux kernelspace messaging with miscellaneous applications based on 64bit 4.13.3 linux kernel

GRAFIT - https://sourceforge.net/u/ka_shrinivaasan/Grafit/

Krishna_iResearch_DoxygenDocs -
https://sourceforge.net/u/ka_shrinivaasan/Krishna_iResearch_DoxygenDocs/

NeuronRain Green - GitHub Repositories for generic datasets on cloud

ACADPDRAFTS - Publications, Drafts - <https://github.com/shrinivaasanka/acadpdrafts-github-code>

VIRGO - <https://github.com/shrinivaasanka/virgo-linux-github-code> -
VIRtual Generic Os Linux kernel forkoff (kernel modules,system calls etc.,) with cloud and machine learning features (32 bit based on 4.1.5 mainline)

VIRGO64 - <https://github.com/shrinivaasanka/virgo64-linux-github-code>>
- 64 bit version of previous VIRGO Linux kernel based on 4.13.3 mainline

USBmd - <https://github.com/shrinivaasanka/usb-md-github-code> -

<https://sourceforge.net/projects/usb-md/> -

USB driver kernel module for network analytics, debugging etc., based on 32bit 4.1.5 linux kernel

USBmd64 - <https://github.com/shrinivaasanka/usb-md64-github-code> -

USB driver kernel module for network analytics, debugging etc., based on 64bit 4.13.3 linux kernel

ASFER -ASTroinFER - <https://github.com/shrinivaasanka/asfer-github-code> -

BigData Analytics and Machine Learning Software for Large Data Sets

KINGCOBRA - <https://github.com/shrinivaasanka/kingcobra-github-code> -

Linux kernelspace messaging with miscellaneous applications based on 32bit 4.1.5 linux kernel

KINGCOBRA64 - <https://github.com/shrinivaasanka/kingcobra64-github-code> -

Linux kernelspace messaging with miscellaneous applications based on 64bit 4.13.3 linux kernel

GRAFIT - <https://github.com/shrinivaasanka/Grafit/>

Krishna_iResearch_DoxygenDocs -

https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/

NeuronRain Antariksh - GitLab Repositories for Drone code

ACADPDRAFTS - Publications, Drafts - <https://gitlab.com/shrinivaasanka/acadpdrafts-github-code>

VIRGO - <https://gitlab.com/shrinivaasanka/virgo-linux-github-code> -

VIRtual Generic Os Linux kernel forkoff (kernel modules,system calls etc.,) with cloud and machine learning features (32 bit based on 4.1.5 mainline)

VIRGO64 - <https://gitlab.com/shrinivaasanka/virgo64-linux-github-code>>

- 64 bit version of previous VIRGO Linux kernel based on 4.13.3 mainline

USBmd - <https://gitlab.com/shrinivaasanka/usb-md-github-code> -

<https://sourceforge.net/projects/usb-md/> -

USB driver kernel module for network analytics, debugging etc., based on 32bit 4.1.5 linux kernel

USBmd64 - <https://gitlab.com/shrinivaasanka/usb-md64-github-code> -

USB driver kernel module for network analytics, debugging etc., based on 64bit 4.13.3 linux kernel

ASFER -ASTroinFER - <https://gitlab.com/shrinivaasanka/asfer-github-code> -

BigData Analytics and Machine Learning Software for Large Data Sets

KINGCOBRA - <https://gitlab.com/shrinivaasanka/kingcobra-github-code> -

Linux kernelspace messaging with miscellaneous applications based on 32bit 4.1.5 linux kernel

KINGCOBRA64 - <https://gitlab.com/shrinivaasanka/kingcobra64-github-code> -

Linux kernelspace messaging with miscellaneous applications based on 64bit 4.13.3 linux kernel

GRAFIT - <https://gitlab.com/shrinivaasanka/Grafit/>

Krishna_iResearch_DoxygenDocs -

https://gitlab.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/

NeuronRain Documentation and Licensing

Krishna_iResearch_DoxygenDocs (GitHub) -

https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs (NeuronRain Architecture

Diagrams 1 , NeuronRain Architecture Diagrams 2) -

https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/Krishna_iResearch开源产品架构图.pdf

Krishna_iResearch_DoxygenDocs (GitLab) -

https://gitlab.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs

Krishna_iResearch_DoxygenDocs (SourceForge) - [https://sourceforge.net/u/userid-](https://sourceforge.net/u/userid-769929/Krishna_iResearch_DoxygenDocs/ci/master/tree/)

[769929/Krishna_iResearch_DoxygenDocs/ci/master/tree/](https://sourceforge.net/u/userid-769929/Krishna_iResearch_DoxygenDocs/ci/master/tree/)

NeuronRain Documentation and Licensing in ReadTheDocs and FAQ (Previous Docs repos have most recent updates on Licensing and PDF/HTML Documentation) -

<http://neuronrain-documentation.readthedocs.io/en/latest/>

Krishna iResearch (old link updated in 2006) -

http://www.freelanceindia.com/Freelancer/Software_Programming_Database_Development/Others/viewprofile.asp?code=7291

Bifurcation of code bases into 32bit and 64-

bit previously has been chosen than branching/ifdefs because of

drastic difference in linux kernel versions/functionalities/dependencies between base kernels for 32 and 64

bits. The opensource codebases in SourceForge, GitHub and GitLab above are non funded,non profit academic research efforts. Premium technical support is available for above opensource codebases. GitHub/GitLab repositories implement NeuronRain Green and SourceForge repositories implement NeuronRain Research versions. Dual licensed closedsource premium commercial versions with enhanced features on above GPL products in development since 2010.

Free online course materials

GRAFIT Open Learning [GitHub] - <https://github.com/shrinivaasanka/Grafit>

GRAFIT Open Learning [GitLab] - <https://gitlab.com/shrinivaasanka/Grafit>

GRAFIT Open Learning [SourceForge] - <https://sourceforge.net/u/userid-769929/Grafit/ci/master/tree/>

Virtual GitHub Classroom for GRAFIT course material repository

<https://classroom.github.com/classrooms/8086998-https-github-com-shrinivaasanka-grafit>

GRAFIT course material in Moodle

<https://moodle.org/pluginfile.php/4765687/user/private/Grafit-master.zip?forcedownload=1>

BRIHASPETHI - Private Virtual Classrooms:

GitHub - Private repositories of virtual classrooms for various commercial online courses (for graduate students and professionals - requires GitHub student logins) - BigData and Machine Learning, Topics in Mathematics and Computer Science, Linux Kernel and Cloud, Vedic Astrology, English, Hindi - <https://github.com/Brihaspathi> - Consultancy offered on BigData-Machine Learning, Linux Kernel-Cloud and other IT arena, Vedic Astrology (Brihaspathi Jyotish Vigyan Kendra - Personal reading, Matrimonial matchmaking,...) - Atlassian BitBucket - https://bitbucket.org/ka_shrinivaasan/ (NeuronRain repositories imported as course material supplement to BRIHASPETHI - <https://github.com/Brihaspathi> - Virtual classrooms) - Advertisement - The Hindu - 19 January 2023: https://github.com/shrinivaasanka/acadpdrafts-github-code/blob/master/BrihaspathiTheHinduAdvt_TrichyEdition_2023-01-19.pdf

JAIMINI Closed Source Derivative of NeuronRain:

GitHub - <https://github.com/Brihaspathi/jaimini>

SourceForge - <https://sourceforge.net/projects/jaimini/>

GitLab - <https://gitlab.com/shrinivaasanka/jaimini>

Research statements

Research statement 1 (2010) -

https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/ResearchStatement2.pdf

Research statement 2 with some proof sketches (2011) (Algorithm for Timeout implemented on Global Decisioning Platform 3.0 -Copyright: Global Analytics) -

https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/PhDThesisProposal.pdf

Research statement 3 with some proof sketches (2014) -

https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/Research_Writeup.pdf

Research Statement 4 - Presentation to BITS Pilani (6 June 2018) - ppt -

https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/BITSPilaniAV.pdf

Research Statement 5 (2018) -

https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27//ResearchAreas.pdf

Patents

Team Patents - Sun Microsystems - 2000-2005 - <http://patft.uspto.gov/netacgi/nph-Parser?>

Sect1=PTO2&Sect2=HITOFF&p=1&u=%2Fnethtml%2FPTO%2Fsearch-adv.htm&r=0&f=S&l=50&d=PTXT&Query=%22kannan+srinivasan%22+AND+%22sun+microsystems%22

Disclosure - Patent Pending (Copyright: Sun Microsystems - 2002 - Reference Number: P8490) -
Survival Index Based Transaction Timeout Manager (Java PoC implemented on SunOne-
iPlanet Application Server 6.5 J2EEJTS Transaction Manager - now GlassFish
- <https://github.com/javaee/glassfish/tree/master/appserver>) -
https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/SurvivalIndexBasedTxnTimeoutManager.pdf

Publications (2008-2011) - Bibliography:

Google Scholar - <https://scholar.google.co.in/citations?user=eLZY7CIAAAAJ&hl=en>

DBLP - <http://dblp.dagstuhl.de/pers/hd/s/Shrinivaasan:Ka=>

arXiv - ORCID - <https://orcid.org/0000-0003-1822-4697>

Microsoft Academic - [https://academic.microsoft.com/search?q=ka%20shrinivaasan&qe=%40%40%40Composite\(AA.AuN%3D%3D%27ka%20shrinivaasan%27\)&f=&orderBy=4&skip=0&take=10](https://academic.microsoft.com/search?q=ka%20shrinivaasan&qe=%40%40%40Composite(AA.AuN%3D%3D%27ka%20shrinivaasan%27)&f=&orderBy=4&skip=0&take=10)

Researchgate - https://www.researchgate.net/profile/Srinivasan_Kannan5

Semantic Scholar - <https://www.semanticscholar.org/author/Ka.-Shrinivaasan/1861803>

CiteSeerX - <https://citeseerx.ist.psu.edu/search?q=Ka.+Shrinivaasan>

NASA/ADS -
https://ui.adsabs.harvard.edu/search/q=author%3A%22Shrinivaasan%2C%20Ka.%22&sort=date%20desc%2C%20bibcode%20desc&p_=0

Publication Texts (2008- 2011) - (CMI-IMSc-IIT, Chennai) guided and reviewed

Few Algorithms for Ascertaining Merit Of a Document -
https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/MScThesis-WriteupReport.pdf

(Master's thesis) arXiv Link to Few Algorithms for Ascertaining Merit of a Document - 2010 - <http://arxiv.org/abs/1006.4458> (Paperswithcode - <https://paperswithcode.com/paper/few-algorithms-for-ascertaining-merit-of-a>)

Presentation slides - Few Algorithms for Ascertaining Merit Of a Document - https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/ThesisPresentation2.pdf

(Published during PhD - October 2010) TAC 2010 dataset evaluation Update summarization with Interview Algorithm (with some updates added to the above) paper - https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/TAC2010papersubmission.pdf

TAC 2010 dataset evaluation - Update summarization with Interview Algorithm (with some updates added to the above)slides - https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/PresentationTAC2010.pdf

NIST TAC 2010 link to Update Summarization with Interview Algorithm - http://www.nist.gov/tac/publications/2010/participant.papers/CMI_IIT.proceedings.pdf (TAC2010 dataset evaluation - old code - 2010 - <https://github.com/shrinivaasanka/asfer-github-code/tree/master/python-src/InterviewAlgorithm/TAC2010>)

Decidability of Existence and Construction of a Complement of a given function - https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/complementoffunction-writeup.pdf

arXiv Link to Decidability of Existence and Construction of a Complement of a given function - 2011 - <http://arxiv.org/abs/1106.4102> (Paperswithcode - <https://cs.paperswithcode.com/paper/decidability-of-existence-and-construction-of>)

Circuits for Complement of a function - old version - https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/ComplementOfAFunction_earlier_draft.pdf

**NeuronRain Theory Drafts (2003-present) -
private unaffiliated research - theory aligned to**

features of NeuronRain opensource products and later expansions (2012 - present) on earlier publications (2008-2011):

Complexity Theoretic Analysis of Non-majority and Majority Social Choice, Majority Voting Boolean Composition Circuit and KRW Conjecture, P versus NP, ABC Conjecture, Four color Theorem, Zorn Lemma, Axiom of Choice (AOC), XOR Lemma and Hardness Amplification, Circuit Lowerbounds, Pseudorandomness(generators and extractors), Goodness of Voting and Margulis-Russo Threshold/Condorcet Jury Theorem (and its recent versions by [Black], [Ladha]), Theoretical Electronic Voting Machines and Pre-poll - Post-poll Analytics, Vowelless Syllable Boundary Text Compression and Compressed Sensing, Computational Chaos, Polynomial Reconstruction Problem, Complement Functions - Complementary Sets and their Function Representation(e.g Beatty Functions), Combinatorics (Ramsey coloring of sequences), PAC Learning, Prime-Composite complementation and pattern in primes, Goldbach Conjecture, Arithmetic Progressions, Diophantine Analysis and Representation, Riemann Zeta Function, Hypergeometric Functions, Clouds - Logical time and causality(EventNet), Formal Languages (Turing degrees, Embedding in vector space, Lambda Calculus, Category Theory, Logic) and learning lambda expressions from Natural Language Text, Cognitive Psychology - Grounded Cognition and ThoughtNet Evocation, Partial order intrinsic merit rankings and Galois connections, Graph theoretic/Computational Neurolinguistic/Question-Answering Interview Intrinsic Merit/Fitness/Fame and Experiential Learning in the context of WWW (people, text, audio - speech and music, visuals-video and images, economies) and Social/Economic networks, Social Network Models - Cellular Automaton and Random Graph Diffusion of Concepts-Memes-Fads-Cybercrimes, Game Theory, BKS Conjecture and Question-Answering, Machine Translation, Algorithmic Graph Theoretic Learning Models, Computational Learning Theory, Software Analytics/Program Analysis/Debug Analytics, Operating System Kernel and Scheduler Analytics, Astronomical Analytics of Celestial Bodies and correlations to Seismic-Atmospheric-Oceanic events, Urban planning analytics, Computational Astrophysics - N-body problem, Media Analytics and Advertisement Analytics, Preferential Attachment, Brand Loyalty and Business Intelligence, People Analytics/HR Analytics, Sports Analytics, Handwriting and Face Recognition for unique

identification, Fame/Merit Equilibrium (Welfare Functions, Flow Market Equilibrium and Convex-Concave Programming in Algorithmic Economics applied to Fame-Merit) and Economic Merit(Intrinsic pricing),Cryptocurrencies and Money Trail (EventNet Graph),Optimal Denomination and Money Changing - Coin Problem,Mechanism Design, Time series analysis (economic and weather forecasts), Neural Networks and Deep Learning, Quantum mechanics and Intrinsic Fitness/Merit(Bose-Einstein condensation in networks), Locality Sensitive Hashing and Separate Chaining Hash tables, Multiple Agent Resource Allocation, Integer Partitions(additive and multiplicative), Set Partitions, Space filling/Lagrangian Four Square Theorem Tiling/Circle Packing, Exact Cover, Random Closed Packing, Number Theory, Quadratic and Linear Programming, Cellular Automata, Satisfiability (Least Square SAT Solvers and QBFSAT), Random restrictions and Hastad Switching Lemma, Classical NC-PRAM-BSP (k-mergesort, segment tree, wavelet tree, ray shooting queries, planar point location, sorting networks,local search of rasterized hyperbolic segment arithmetic progressions), Randomized NC and Quantum NC Computational Geometric Integer Factoring, Rasterization of Algebraic Curves, Algebraic Geometry, Knot Theory, Topology and Connections amongst them - (most recent draft updates to all publications previously and earlier drafts below - in text format - nonlinear theoretical writeups interspersed between NeuronRain code commits in SourceForge, GitLab and GitHub - links to relevant feature implementations and theory drafts in design notes of NeuronRain repositories - AstroInfer,USBmd,VIRGO,KingCobra,GRAFIT,Krishna_iResearch_Doxygen_Docs,Acadpdrafts) - more commentary at frequently updated NeuronRain Conceptual Graph - Section 864 - https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/index.rst:

Krishna_iResearch_DoxygenDocs (GitHub) - https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/index.rst

Krishna_iResearch_DoxygenDocs (GitLab) - https://gitlab.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/-/blob/b848a7e8c07ad5084594baca2e5251b0f93d9f23/index.rst

Krishna_iResearch_DoxygenDocs (SourceForge) - https://sourceforge.net/u/ka_shrinivaasan/Krishna_iResearch_DoxygenDocs/ci/master/tree/index.rst

Earlier Publication Drafts (2012 - present) - unaffiliated private theoretical research - unguided and unreviewed

Earlier Publication Drafts (PDF):

Integer Partitions and Hash functions -

https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/IntegerPartitionAndHashFunctions.pdf (in Tex) - 2012

Interview Algorithm is in $IP=PSPACE$ -

https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/InterviewAlgorithmInPSPACE.pdf (in Tex) -2012

Few Nontrivial Questions and Shell Turing Machines (in Tex) - 2012 -

[/https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/UndecidabilityOfFewNonTrivialQuestions.pdf](https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/UndecidabilityOfFewNonTrivialQuestions.pdf)

Complexity aspects of Non-majority and Majority Social Choice, Hash Functions, Integer Partitions, Graph theoretic Document summarization etc.,:

Arrow's Theorem, Circuit For Democracy and Pseudorandom Choice and P Versus NP (Draft

- 17 September 2014) -

[/https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/CircuitsForDemocracyAndPseudorandomChoice_and_PVsNP.pdf](https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/CircuitsForDemocracyAndPseudorandomChoice_and_PVsNP.pdf)

Document Summarization from WordNet Subgraph obtained by Recursive Gloss Overlap (Draft

- 25 July 2014) -

https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/DocumentSummarization_using_SpectralGraphTheory_RGOGraph_2014.pdf

Integer Partitions and Hash Functions (new version - 5 April 2014 and 17 April 2014) -

https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/IntegerPartitionAndHashFunctions_2014.pdf

Lower Bounds for Majority Voting and Pseudorandom choice -

https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/LowerBoundsForMajorityVotingPseudorandomChoice.pdf

Circuits For Computing Error Probability of Majority Voting (new version - 10 April 2014) -

https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/CircuitForComputingErrorProbabilityOfMajorityVoting_2014.pdf

Circuits For Computing Error Probability of Majority Voting -

[/https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/CircuitForComputingErrorProbabilityOfMajorityVoting.pdf](https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/CircuitForComputingErrorProbabilityOfMajorityVoting.pdf) (old version -- March 2013)

Indepth Analysis of a Variant of Majority Voting with relation to ZFC -updated draft -

[/https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/IndepthAnalysisOfVariantOfMajorityVotingwithZFAOC_2014.pdf](https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/IndepthAnalysisOfVariantOfMajorityVotingwithZFAOC_2014.pdf) (new version -8 February 2014)

Indepth Analysis of a Variant of Majority Voting with relation to ZFC -

https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/IndepthAnalysisOfVariantOfMajorityVotingwithZFAOC.pdf (old version -- 8 March 2013)

Parallel PRG and Space Filling:

A Chaos theoretic Parallel Pseudorandom generator in RNC For Majority Voting and Pseudorandom Choice -

https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/ChaoticPRG.pdf

Analysis of a Randomized Space Filling Algorithm and its Linear Program Formulation -

updated draft additions for Cellular Automaton Algorithm, NC circuit construction for it -

<http://sourceforge.net/p/asfer/code/HEAD/tree/asfer-docs/AstroInferDesign.txt>

Analysis of a Randomized Space Filling Algorithm and its Linear Program Formulation (previous version) -

https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/Analysis%20of%20a%20Randomized%20Space%20Filling%20Algorithm%20and%20its%20Linear%20Program%20Formulation.pdf

Discrete Hyperbolic Factorization --

previous versions:

Discrete Hyperbolic Polylogarithmic Sieve For Integer Factorization -

https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/DiscreteHyperbolicPolylogarithmicSieveForIntegerFactorization.pdf

(Version 1)

Discrete Hyperbolic Polylogarithmic Sieve For Integer Factorization with Interpolation

Search (Version 2 - updated 25 June 2013) -

https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/DiscreteHyperbolicPolylogarithmicSieveForIntegerFactorization_updated_interpolation_search.pdf

Discrete Hyperbolic Polylogarithmic Sieve For Integer Factorization with Interpolation

Search (Version 3 - updated 30 June 2013 with rough notes) -

https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/DiscreteHyperbolicPolylogarithmicSieveForIntegerFactorization_updated_interpolation_search_30June2013.pdf

Discrete Hyperbolic Polylogarithmic Sieve For Integer Factorization with Interpolation

Search (version 4 - updated 1 July 2013 and Version 5 updated 20 July 2013 including all handwritten notes -

http://sourceforge.net/projects/acadpdrafts/files/DiscreteHyperbolicPolylogarithmicSieveForIntegerFactorization_updated_interpolation_search.pdf/download

Discrete Hyperbolic Polylogarithmic Sieve For Integer Factorization using Rectangular

Binary (or) Interpolation Search (version 12 - updated 25 August 2013) -

http://sourceforge.net/projects/acadpdrafts/files/DiscreteHyperbolicPolylogarithmicSieveForIntegerFactorization_updated_rectangular_interpolation_search.pdf/download

Informal Notes on Derivation of Upperbound for Discrete Hyperbolic Factorization with

Stirling Formula using Rectangular Binary or Interpolation Search (10 September 2013) -

http://sourceforge.net/projects/acadpdrafts/files/DiscreteHyperbolicFactorization_UpperboundDerivedWithStirlingFormula_2013-09-10.pdf/download

Discrete Hyperbolic Polylogarithmic Sieve For Integer Factorization using Rectangular

Binary (or) Interpolation Search applying Stirling Formula (Version 14 -20 September 2013) -

http://sourceforge.net/projects/acadpdrafts/files/DiscreteHyperbolicPolylogarithmicSieveForIntegerFactorization_updated_rectangular_interpolation_search.pdf/download

[rFactorization_updated_rectangular_interpolation_search_and_StirlingFormula_Upperbound.pdf/download](#)

Discrete Hyperbolic Factorization -- Parallel RAM algorithm:

An NC algorithm and some Sequential Search Algorithms for Discrete Hyperbolic Polylogarithmic Sieve For Factorization using Binary or Interpolation Search with Stirling Formula and Logarithmic Sorted Tile Merge in PRAM model (20 November 2013)
http://sourceforge.net/projects/acadpdrafts/files/DiscreteHyperbolicPolylogarithmicSieveForIntegerFactorization_PRAM_TileMergeAndSearch_And_Stirling_Upperbound.pdf/download> and
AsFer PRAM implementation design notes with tile id(s) (21 November 2013) -
<https://sourceforge.net/p/asfer/code/HEAD/tree/asfer-docs/ImplementationDesignNotesForDiscreteHyperbolicFactorizationInPRAM.jpg>

An NC algorithm and some Sequential Search Algorithms for Discrete Hyperbolic Polylogarithmic Sieve For Factorization using Binary or Interpolation Search with Stirling Formula and Logarithmic Sorted Tile Merge in PRAM model updated draft with PRAM to NC reduction and input size details and references (25 September 2014) -
http://sourceforge.net/projects/acadpdrafts/files/DiscreteHyperbolicPolylogarithmicSieveForIntegerFactorization_PRAM_TileMergeAndSearch_And_Stirling_Upperbound_updateddraft.pdf/download

Miscellaneous Informal Notes related to above drafts (Handwritten) (Note: these are in any structured format and might have typos and errors)

Implication Graphs, Error probability of Majority Voting and P Versus NP Question -
http://sourceforge.net/projects/acadpdrafts/files/ImplicationGraphsPGoodEquationAndPNotEqualToNPQuestion_excerpts.pdf/download

Minimum Convex Hulls of Implication Graphs and Hidden Markov Model on class nodes of Concept Hypergraph -
https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/NotesOnConceptHypergraphHMM_and_ImplicationGraphConvexHulls_2013-12-30.pdf

Minimum Convex Hulls of Implication Random Growth Networks and Perfect Voter Decidability -
https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/ImplicationRandomGraphConvexHullsAndPerfectVoterProblem_2014-01-11.pdf

Philosophical Analysis of Democracy Circuit and Pseudorandom Choice -
https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/PhilosophicalAnalysisOfDemocracyCircuitAndPRGChoice_2014-03-26.pdf

Schur's Theorem, Restricted Partitions with distinct parts and Hash Table Collision Chains -
https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/SchurTheoremMCPAndDistinctPartitions_2014-04-17.pdf

Riemann Zeta Function, Ramanujan Graphs and Ihara Zeta Function -
https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/RamanujanGraphsRiemannZetaFunctionAndIharaZetaFunction.pdf (30 August 2014)

Riemann Zeta Function, Ramanujan Graphs and Ihara Zeta Function -
https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/RZFAndIZF_25October2014.pdf (25 October 2014)

Miscellaneous notes on Krishna iResearch Open Source products design, Democracy Circuit, Complement Function circuit and Parallel RAM to NC reduction for ANSV algorithm in Discrete Hyperbolic Factorization (6 January 2015) -
http://sourceforge.net/p/asfer/code/568/tree/python-src/ComplFunction_DHF_PVsNP_Misc_Notes.pdf

Earlier Publication Drafts (TeX):

Arrow's Theorem, Circuit For Democracy and Pseudorandom Choice and P Versus NP (Draft -- 17 September 2014) -
https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/CircuitsForDemocracyAndPseudorandomChoice_and_PVsNP.tex

Document Summarization from WordNet Subgraph obtained by Recursive Gloss Overlap (25 July 2014) -
https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/DocumentSummarization_using_SpectralGraphTheory_RGOGraph_2014.tex

Integer Partitions and Hash Functions (new version - 5 April 2014 and 17 April 2014) -

https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/IntegerPartitionAndHashFunctions_2014.tex

Lower Bounds for Majority Voting and Pseudorandom choice -

https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/LowerBoundsForMajorityVotingPseudorandomChoice.tex

Circuits for Computing Error Probability of Majority Voting (new version - 10 April 2014) -

https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/CircuitForComputingErrorProbabilityOfMajorityVoting_2014.tex

Circuits For Computing Error Probability of Majority Voting -

https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/CircuitForComputingErrorProbabilityOfMajorityVoting.tex (old version - March 2013)

Indepth Analysis of a Variant of Majority Voting with relation to ZFC - updated draft -

https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/IndepthAnalysisOfVariantOfMajorityVotingwithZFAOC_2014.tex (new version - 8 February 2014)

Indepth Analysis of a Variant of Majority Voting with relation to ZFC -

https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/IndepthAnalysisOfVariantOfMajorityVotingwithZFAOC.tex (old version - 8 March 2013)

Parallel PRG and Space Filling:

A Chaos theoretic Parallel Pseudorandom generator in RNC For Majority Voting and Pseudorandom Choice -

https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/ChaoticPRG.tex

Analysis of a Randomized Space Filling Algorithm and its Linear Program Formulation -

https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/Analysis%20of%20a%20Randomized%20Space%20Filling%20Algorithm%20and%20its%20Linear%20Program%20Formulation.tex

Discrete Hyperbolic Factorization --

previous versions:

Discrete Hyperbolic Polylogarithmic Sieve For Integer Factorization -

https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/DiscreteHyperbolicPolylogarithmicSieveForIntegerFactorization.tex

(Version 1)

Discrete Hyperbolic Polylogarithmic Sieve For Integer Factorization with Interpolation

Search (Version 2 - updated 25 June 2013) -

https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/DiscreteHyperbolicPolylogarithmicSieveForIntegerFactorization_updated_interpolation_search.tex

Discrete Hyperbolic Polylogarithmic Sieve For Integer Factorization with Interpolation

Search (Version 3 - updated 30 June 2013) -

https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/DiscreteHyperbolicPolylogarithmicSieveForIntegerFactorization_updated_interpolation_search_30June2013.tex

Discrete Hyperbolic Polylogarithmic Sieve For Integer Factorization with Interpolation

Search (Version 4 - updated 1 July 2013 and Version 5 updated 20 July 2013 including all handwritten notes) -

http://sourceforge.net/projects/acadpdrafts/files/DiscreteHyperbolicPolylogarithmicSieveForIntegerFactorization_updated_interpolation_search.tex

Discrete Hyperbolic Polylogarithmic Sieve For Integer Factorization using Rectangular

Binary (or) Interpolation Search (Latest version 12 updated 25 August 2013) -

http://sourceforge.net/projects/acadpdrafts/files/DiscreteHyperbolicPolylogarithmicSieveForIntegerFactorization_updated_rectangular_interpolation_search.tex/download

Discrete Hyperbolic Polylogarithmic Sieve For Integer Factorization using Rectangular

Binary (or) Interpolation Search applying Stirling Formula (20 September 2013) -

http://sourceforge.net/projects/acadpdrafts/files/DiscreteHyperbolicPolylogarithmicSieveForIntegerFactorization_updated_rectangular_interpolation_search_and_StirlingFormula_Upperbound.tex/download

Discrete Hyperbolic Factorization - Parallel RAM algorithm:

An NC algorithm and some Sequential Search Algorithms for Discrete Hyperbolic Polylogarithmic Sieve For Factorization using Binary or Interpolation Search with Stirling Formula and Logarithmic Sorted Tile Merge in PRAM model (20 November 2013) - http://sourceforge.net/projects/acadpdrafts/files/DiscreteHyperbolicPolylogarithmicSieveForIntegerFactorization_PRAM_TileMergeAndSearch_And_Stirling_Upperbound.tex/download

An NC algorithm and some Sequential Search Algorithms for Discrete Hyperbolic Polylogarithmic Sieve For Factorization using Binary or Interpolation Search with Stirling Formula and Logarithmic Sorted Tile Merge in PRAM model updated draft with PRAM to NC reduction and input size details and references (25 September 2014) - http://sourceforge.net/projects/acadpdrafts/files/DiscreteHyperbolicPolylogarithmicSieveForIntegerFactorization_PRAM_TileMergeAndSearch_And_Stirling_Upperbound_updateddraft.tex/download

Blogs

HAMSA - <https://kuja27.blogspot.in/> (Audio-Visuals and Course material on Computer Science, Machine Learning etc., - complements and contains links to large visuals used within NeuronRain repositories)

VARAHAMIHIRA - <https://varahamihira.wordpress.com/> (Astronomy, Sanskrit, Vedic Astrology etc.,)

Alumni Profiles

CMI Alumnus page - <https://www.cmi.ac.in/people/alumni-profile.php?id=shrinivas> (2010)

CMI Research Scholar Alumnus Page - <http://www.cmi.ac.in/people/fac-profile.php?id=shrinivas> (2010-2011) [no JRF/academic or industry affiliation at present doing private research]

PSG Tech Alumnus Page (1999) - <http://alumni.psgtech.ac.in/profile/view/srinivasan-kannan-1>

Personal Memorabilia and selected visuals (archaeology, architecture, nature, wild life)

Kumbakonam - 2022 - 3 Ducks - <https://kuja27.blogspot.com/2022/01/3-ducks-large-scale-visual-for.html>

Chennai - Mylapore, Triplicane, Tiruvallur - 2019 -
https://twitter.com/ka_shrinivaasan/status/1454709513878052864

Chennai - Siruseri - SIPCOT - TCS Tower - 2019 -
https://twitter.com/ka_shrinivaasan/status/1472872731137826816

Kumbakonam - Cauvery - 2019 and 2022 -
https://twitter.com/ka_shrinivaasan/status/1472870954019733505,
https://twitter.com/ka_shrinivaasan/status/1559847855476510720,
https://twitter.com/ka_shrinivaasan/status/1598657245893758977

Madurai - Azhagar hills - 2018 -
https://twitter.com/ka_shrinivaasan/status/1473313777810612227

Chennai - 2018 - Sholinghur Hills, Trichy-Srirangam, Namakkal Fort -
https://twitter.com/ka_shrinivaasan/status/1453391628232581120

Chennai - Kanchipuram - Hastigiri - 2016 -
https://twitter.com/ka_shrinivaasan/status/1454708771603693573

Chennai - Tiruvetriyur - 2016 -
https://twitter.com/ka_shrinivaasan/status/1472871425732136970

Chennai - 2016 - ECR - Kovalam Beach and Thiruvидanthai -
https://twitter.com/ka_shrinivaasan/status/893809168284475392

Chennai - 2015 - https://twitter.com/ka_shrinivaasan/status/1516080302828896260

Chennai - IIT Madras - 2015 - https://twitter.com/ka_shrinivaasan/status/1504778623836110851

Kumbakonam - 2015 - Shri Sharngapani Swamy Temple -
https://twitter.com/ka_shrinivaasan/status/1454708262390013953 ,
https://twitter.com/ka_shrinivaasan/status/1504761670794883073

Chennai Metro (2015), Madurai (2009), Coimbatore (2009) -
https://twitter.com/ka_shrinivaasan/status/893804443459665920

Passport (May 2015) -

http://sourceforge.net/projects/acadpdrafts/files/NewPassportBookletScanned_M9583737.pdf/download

Chennai - 2014 - Nature - https://twitter.com/ka_shrinivaasan/status/1509807961962520576

Chennai - 2014 - Vandalur Zoological Park -

https://twitter.com/ka_shrinivaasan/status/1509807633275908099

Chennai - 2014 - Cat and Dog -

https://twitter.com/ka_shrinivaasan/status/1489659087738802176

Chennai - 2014 - Thiruneermalai -

https://twitter.com/ka_shrinivaasan/status/893808566116548608

Chennai - 2014 - OMR and Marina -

https://twitter.com/ka_shrinivaasan/status/1489649256005005312

At Chennai Mahabalipuram - September 2012 -

https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/home/DSC00388.JPG

View of SIPCOT Chennai-Siruseri TCS from CMI in twilight - August 2010 -

https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/home/DSC00689.JPG

Microsoft Winter School on Machine Learning - CIFAR - IISc - Bengaluru - January 2010 -

<https://sourceforge.net/projects/acadpdrafts/files/MSc-microsoftwinterschool2010groupphoto.jpg/download>

Chennai - 2008 - World War I Memorial - Emden Shelling (1914) -

https://twitter.com/ka_shrinivaasan/status/1516072894316494852

Sun Microsystems group photo 1 (2000) - Bengaluru IEC DivyaSree Chambers -

https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/iplanetsunmicrosystems2000groupphoto.jpeg

Sun Microsystems 2 (2004) - Bengaluru IEC DivyaSree Chambers -

https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/SunMicrosystems1_30July2004.jpg

Sun Microsystems 3 (2004) - Bengaluru IEC DivyaSree Chambers -

https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/SunMicrosystems2_30July2004.jpg

COBRA (a notsonaive cloud precursor implemented during BE in 1999 on CORBA) -

https://sourceforge.net/projects/acadpdrfts/files/Excerpts_Of_PSG_BE_FinalProject_COBRA_done_in_1999.pdf/download

Assorted Montage Video Footages and Images (Drone simulations, Wildlife, Unique ID Profiles and Facial - used in NeuronRain Large Scale Visual Analytics) - https://github.com/shrinivaasanka/asfer-github-code/blob/master/python-src/image_pattern_mining/ImageNet/testlogs/ , <https://kuja27.blogspot.in/>

PSG Tech 1995 CSE Reunion - Chennai - 2016 -

https://twitter.com/ka_shrinivaasan/status/1472872124754939907

PSG Tech Photos - 1995 batch of Computer Science and Engg - Coimbatore (1995- 1999) -

(Deleted) - <http://www.angelfire.com/id/95cse/album.html> - (Some photos from this defunct website are used within NeuronRain repositories for image analytics - tribute to classmate late

Balaji) - https://github.com/shrinivaasanka/asfer-github-code/blob/master/python-src/image_pattern_mining/ImageNet/testlogs/ExampleImage_1.jpg ,

https://github.com/shrinivaasanka/Grafit/blob/master/course_material/NeuronRain/LinuxKernelAndCloud/code/testlogs/DWMExample1.jpg ,

https://github.com/shrinivaasanka/Grafit/blob/master/course_material/NeuronRain/LinuxKernelAndCloud/code/testlogs/DWMExample2.jpg

Past photos 1 -

https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/NewPassportApplication_OldPassportVisa1.jpg (2003)

Past photos 2 -

https://github.com/shrinivaasanka/Krishna_iResearch_DoxygenDocs/blob/master/kuja27_website_mirrored/site/kuja27/NewPassportApplication_OldPassportVisa2.jpg (2003)

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fundamental research only. Any misinterpretation with malafide intent or defacing/hacking or any other form of cybercrime on contents of this website will be reported and severely dealt with as the case may be. Earlier such incidents have already been reported few years ago -

<https://docs.google.com/file/d/0B8TCub8qrCY8STUxVU1Ja0xuaXM/edit>. Copyright: KaShrinivaasan (alias) Shrinivas Kannan (alias) Srinivasan Kannar

