

Curriculum Vitae



Dr. Sankar Sarma K V S S R S

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Personal Data:

First name and Surname : Sankara Sarma V S S R S and KOLLAPARTI

Date and Place of Birth : 06/04/1959, Akividu, W.G.Dt., A.P,

**Address for Communication: 14-283, Doyens Township, Seri Lingampally,
Hyderabad-500019, Telangana, INDIA.**

Education :

1. **Doctorate** (Ph.D),
Dept of Computer Science & Systems Engineering, Andhra University,
Visakhapatnam, A.P.,..India
- 2.. **Master of Technology**, Dept of Information Technology, Punjabi University.
3. **Master of Science** in Mathematics, Dept of Mathematics, Andhra University,
Visakhapatnam, A.P.

Area of Interest:

Public key cryptography, Cloud computing security, Data security and algorithms

Ph.D : A Methodology for Secure communication Using Pells Equation

Professional Bodies / Societies :

Life member of *Cryptology Research Society of India* and

Life member of *Indian Society for Rough sets*

Projects Guided : B.Tech (3), MCA (6) and M.Tech(13)

Supervising : Ph.D (1) JNTUK and Ph.D (1) A. U Awarded

Teaching Subjects : Advanced Discrete Mathematics, Network Security, data Structures,
Computer Algorithms, operating systems, Numerical Methods, Network Security
and Cryptography.

Lectures / Talks

1. Taught a course of I. T subject for the students of **I M .Sc “ Optometry & Vision sciences” School of Medical Sciences,College for Integrated Studies**, University of Hyderabad (May-July 2014)
2. As an **Evaluator** (IG – 5774) *Advanced Discrete Mathematics* for the MCA programme of MCS-033 course of **Indira Gandhi National Open University, PUNE and CHENNAI Centers** Since 2011.
3. As an **Evaluator** (IG – 5774) *Advanced Discrete Mathematics* for the MCA programme of MCS-033 course of **Indira Gandhi National Open University**, New Delhi, Since 2008.
4. Delivered a **lecture** on *HTML and ‘C’ programming and internet tools* and administered for the students of P G Diploma in IPR & Cyber Laws, **Center for Distance Education, University of Hyderabad**, since 2004.
5. Administered in solving problems in the computer using ‘c’ Programs for the **M. Sc Ist year students in the labs**, Dept of Mathematics, University of Hyderabad.(1998-2002)
6. Administered in organizing ‘C’ Programming” lab examination of **M. Sc courses**, at the Department of Mathematics, University of Hyderabad (1998-2002)
7. Demonstrated the project works of **MCA and M. Tech** Students under supervision in the lab, Dept of Computer Information sciences, University of Hyderabad. (1991-1998)
8. Administered in using ‘C’ programs in the subject “ Computer Based Optimization Techniques” for **M C A** final students, in the year **1997**, University of Hyderabad.

Review’s:

1. Reviewer for Chapter Title:-***RSA-Public key Cryptosystems based on quadratic equations in Finite Field*** for the Text book titled :-*Multidisciplinary Prospective in Cryptology and Information Security*.
2. Reviewer/ advisory committee member on the technical program committee for the International Conference on Electrical, Computer, Power, and Control Engineering (**ICECCPCE13**).
3. Reviewer/ advisory committee member on the technical program committee for the 2nd **IOCRSEM-2015** International conference.
4. Chair and Reviewer committee member on the Technical Program Committee for the 2nd **MDHSS2015** International Conference.

Papers Published: - International journals :

- 1 **Malavika Joshi¹, Shada Manogna², Mrs. Beulah J Karthikeyan, and Dr. Sankara Sarma K V S S R S** “Machine Learning-Based Credit Card Fraud Detection: Evaluating Standard and Hybrid Techniques with Majority Voting ” International Journal of System Design and Information Processing (SDIP), ISSN: (Print): 2319-9288 | (Online): 2321-0591
- 2 **Mahek Tikedar¹, Rallapalli Lakshmi Chandana² , Mrs. Beulah J Karthikeyan³ and *Dr. Sankara Sarma KVSSRS** “ Using multiple methods including Naïve Bayes, K-Nearest Neighbours, and Decision Tree Algorithms with Ensemble Learning to diagnose diabetes ” International Journal of System Design and Information Processing (SDIP), ISSN: (Print): 2319-9288 | (Online): 2321-0591
- 3 **K V S S R S S Sarma with M K Rao and P. S. Avadhani** “ A Method for obtaining Digital Signatures and Public key Cryptosystems using Pells Equation with Jacobi Symbol”, IJOART, Issue , February 2015.
- 4 **K V S S R S S Sarma with M K Rao and P. S. Avadhani** “Software Co-Design of Pells equation with Jacobi Symbol for SSL Protocol Execution ”, IJCTTCS Issue, January 2015.
- 5 **K V S S R S S Sarma with Srikanth S and Harikrishna P** “ *Privacy Preserving Data Sharing with Anonymous ID Assignment Using AIDA Algorithm* ” International Journal of Scientific Engineering and Technology Research (IJSETR) ISSN (Online): 2320-9364, ISSN (Print): 2319-8885 www.ijsetr.org Volume 03 Issue 23 | **September, 2014** | PP.4707-4710.
- 6 **K V S S R S S Sarma with M K Rao and P. S. Avadhani** “*An Identity Based Encryption Scheme based on Pell's Equation With Jacobi Symbol*” International Journal of Research in Engineering and Science (IJRES) ISSN (Online): 2320-9364, ISSN (Print): 2320-9356 www.ijres.org Volume 1 Issue 1 | **May, 2013** | PP.17-20.
- 7 **K V S S R S S Sarma with M K Rao and P. S. Avadhani** “*A Model On Dynamic Threshold Proxy Digital Signature Scheme By Using Pell's Equation With Jacobi Symbol For Multimedia Authentication* ” International Journal of Engineering Science Invention(IJESI) ISSN (Online): 2319 – 6734, ISSN (Print): 2319 – 6726, Volume 2 Issue 1 | **January, 2013** | PP.18-22.
- 8 **K V S S R S S Sarma and P. S. Avadhani** “*Public Key Cryptosystem Based on Pell's Equation Using the GNU MP Library*” International Journal on Computer Science and Engineering (**IJCSE**)ISSN (online): 0975-3397, ISSN (print):2229-5631, Vol.3, No.1, pp643-648, **January, 2011.**

Papers Presented : International Conferences :

1. K V S S R S S Sarma, M. K Rao and P. S. Avadhani “ ***A Model On Dynamic Threshold Multi-Secret Sharing Scheme using Pell’s Equation with Jacobi symbol*** ” proc. of International Conference on Information Technology New Generation (ITNG-2013) Los Vegas USA, April 2013. (IEEE Computer Society)
2. K V S S R S S Sarma and P. S. Avadhani “***Pell’s equation based Cryptosystem for providing Confidentiality and Authentication***” proc. of International Conference on Statistics, Probability, Operational Research, Computer Science and Allied Areas conjunction with IISA and ISPS at A.U. Visakhapatnam, January 2010.
3. K V S S R S S Sarma and P.S. Avadhani “***Pell’s Equation based Cryptosystem for providing Authentication***”. Proc. of International conference on sensors, security, software and intelligent systems (ISSIS) Coimbatore -2009.

Papers Published : - International conferences :

1. Malavika Joshi¹, Shada Manogna², Mrs. Beulah J Karthikeyan, and Dr. Sankara Sarma K V S S R S “Machine Learning-Based Credit Card Fraud Detection: Evaluating Standard and Hybrid Techniques with Majority Voting ” proc. of International Conference on Advanced Applications of Technology and Management (AATM-2023), India, 10th to 11th March, 2023.
2. Mahek Tikedar¹, Rallapalli Lakshmi Chandana² , Mrs. Beulah J Karthikeyan³ and *Dr. Sankara Sarma KVSSRS “ Using multiple methods including Naïve Bayes, K-Nearest Neighbours, and Decision Tree Algorithms with Ensemble Learning to diagnose diabetes ” proc. of International Conference on Advanced Applications of Technology and Management (AATM-2023), India, 10th to 11th March, 2023.
3. N. Narendra kumar and K V S S R S S Sarma, “ Smart Phone Self Checkout Payments in Super Bazar ” proc. of International Conference on Image Information Processing (ICIIP) Shimla, India, November 2019 . (IEEE Xplore).
4. K V S S R S S Sarma, M. K Rao and P. S. Avadhani “ ***A Model On Dynamic Threshold Multi-Secret Sharing Scheme using Pell’s Equation with Jacobi symbol*** ” proc. of International Conference on Information Technology New Generation (ITNG-2013) Los Vegas USA, April 2013. (IEEE Computer Society).
5. K V S S R S S Sarma and P. S. Avadhani “ ***A Threshold Cryptosystem Using Pell’s Equation*** ” proc. of International Conference on Information Technology New Generation (ITNG) Los Vegas USA, April 2011. (IEEE Computer Society).
6. K V S S R S S Sarma, Rukma Rekha N, and Subba Rao Y V “***Enhanced Key Life in Online Authentication Systems Using Virtual Password***” proc. of International Conference on Information Technology New Generation (ITNG) Los Vegas USA, April 2011. (IEEE Computer Society).
7. K V S S R S S Sarma and P. S. Avadhani “***Pell’s equation based Cryptosystem for providing Confidentiality and Authentication***” proc. of International Conference on Statistics, Probability, Operational Research, Computer Science and Allied Areas conjunction with IISA and ISPS at A.U. Visakhapatnam, January 2010.
8. K V S S R S S Sarma and P.S. Avadhani; “***Pell’s Equation based Cryptosystem for providing Authentication***”. Proc. of International conference on sensors, security, software and intelligent systems (ISSIS) Coimbatore -2009.

Papers Published :- National Conferences:

1. Paper on “*Multi layer card using Visual Cryptography*”, with Sri Y. V. subba rao Proc. of National Conference on Advances in Signal processing (NCASP-09), at Department of Electronics and Communications, Andhra University, Visakhapatnam, **20th to 21st November 2009.**

2. Paper on “*A Model for Real Time Grid Computing*”, Proc. of National Conference on Advances in Signal processing (NCASP-09), at Department of Electronics and Communications, Andhra University, Visakhapatnam, **20th to 21st November 2009.**

3. Paper on “*Preferential Functionality of Next Generation IPV6* ” Proc. of I E T E Zonal Seminar on “*Emerging and Converging Communication Technologies*” Department of Electronics and Communications, d Andhra University. Visakhapatnam, **10th-11th February 2007.**

International Conferences attended: (17) / National Conferences / Workshops attended: 11

Conferences / Workshops Conducted :

National Instructional Workshop on “Cryptology” Conducted at College of Engineering (A), Andhra University, Visakhapatnam during 10th -12th March, 2017 as Coordinator.

National Instructional Workshop on “Cryptology” Conducted at College of Engineering Women’s Gayathri Vidya Parishat, Andhra University, Visakhapatnam during 23th -25th March, 2018 as Coordinator.

*Worked at NMR Engineering college (affiliated to JNTUH) as **Adjunct Professor** on Saturdays with NOC from University of Hyderabad from February 2017-2019.*

*Worked for JITS (affiliated to JNTUH) at Warangal as an **Adjunct Professor** from Jan, 2020 to Jan, 2022.*

Presently working as **Guest Faculty** for School of Computer and Information Sciences, University of Hyderabad from March, 2022-till date.

Presently working as Professor, AI & ML department for JBIET (UGC-Autonomous and affiliated to JNTUH), Hyderabad from July, 2022 – till date.