

**Dr. B. Srinivasa Rao**, Professor of Computer Science and Engineering, completed his Ph.D from University of Bhopal, Bhopal, India and has over Thirty years of academic, research and administration experience. His Ph.D work was on Computer Simulations of Complex Defects. He had earned Masters of Technology in Computer Science from Birla Institute of Technology, Ranchi, India. He completed Master of Philosophy with Microprocessors and Space Physics as specializations from RD University, Jabalpur, India. He obtained Master of Science degree with Electronics and Radio Physics specialization from RD University, Jabalpur, India. He also got Post Graduate Diploma in Computer Science from University of Hyderabad, India. He visited the National University Singapore, Singapore in 2004.

**Dr. Srinivasa Rao'** current research interests include design and implementation of cryptanalytic attacks for various security systems, developing cryptographic security models for Internet and WSN, Designing energy efficient algorithms for WSN and Modelling and simulation of various systems, in which he has more than 65 publications, in various journals and conferences. He is currently working on design of combined cryptanalysis techniques for block ciphers and hash algorithms and message digest algorithms. He is supervising Five Ph.D. students. He was awardees of CSIR, New Delhi direct Senior Research Fellowship in 1990 and awardees of MAPCOST Junior Research Fellowship in 1988.

**Dr. Srinivasa Rao** is currently managing the Faculty of Computer Programming and Data Structures at Department Computer Science and Engineering, GRIET, since 2013. In addition, he has also handled responsibilities of Dean of Finishing School and BOS Chairman for I year B.Tech.

In past, **Dr. Srinivasa Rao** worked as Founding Head, Department of Computer Science Engineering at MREC (2006-2013). As its founding Head, he was instrumental in creating good academic rigor at par with other peer departments. He also handled the responsibilities as BOS of CSE, MREC (2006-13), I/C Spot Valuation Centre MREC (2006-11), TEQIP Coordinator MREC (2011-13), Member, Governing Body MREC (2008-13), Executive Member of Academic Council MREC (2006-13), Member, Staff Selection Committee (2006-13).

**Dr. Srinivasa Rao** is also a member of Life Member of ISTE.

**Contact:**

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## PROFILE

Name:

Dr. B. SRINIVASA RAO



Designation	: Professor
Date of Joining	: 29th May 2013
ID	: 1088
Ratification	: Ratified
Qualifications	: M.Tech. Ph.D.
Total Experience	: 30 Years
Fields of Interest	: Information Security
Research Publications	: 68
International Journals	: 20 (SCOPUS/UGC)
International Conferences	: 19 (Springer, IEEE and AIP)
National Conferences	: 29 (ISSN and ISBN)
Conferences Organised	: 10
Conferences Attended	: 30
M.Tech. Projects Supervision	: 5
Ph.D. Supervision	: 5
Professional Associations	: CSI, ISTE, ISCA
Awards	: SRF (CSIR, New Delhi)
Certifications	: 2
Other Responsibilities	: Dean Finishing School, I. B.Tech. BOS, Faculty I/C CPDS and I/C for I ECE
Hobbies	: Study of Psychology
Date of Birth	: 18th June 1962

## Publications

### **1. In International Refereed Journals (20)**

S.No	Title of the Paper	Name of the Journal	Vol./Page No.	Year	Impact Factor
1	High Pressure Structural and Elastic Behavior of Sodium Halides	Phys. Rev. B	42, 1810	1990	3.86/Scopus
2	Charge-Transfer Effect on Formation and Binding Energies of Vacancy Pairs in NaCl and KCl	Phys. Stat. Sol. (b)	<u>164</u> , 351	1991	1.67/Scopus
3	High Pressure Structural Phase – Transition in BaSe and BaTe	Phys. Stat. Sol. (b)	<u>165</u> , 369	1991	1.67/Scopus
4	High Pressure Elastic Constants of NaCl	Phys. Stat. Sol. (b)	<u>156</u> , K27	1989	1.67/Scopus
5	Computer Simulation of Schottky Defect Formation Energy of CoO and NiO	Bulletin of Pure and Applied Sci.	31D, 2, 233	2012	0.05/UGC
6	Modeling and Simulation of a Defect Complex in Alkali Halides	Engg. Sci. Int. Res. journal	1, 1, 36 ISSN 2320-4338	2013	Indexed
7	Computer Simulation Study of Structural Phase Transition and Elastic Properties of Rubidium Halides	Engg. Sci. Int. Res. journal	1, 1, 44 ISSN 2320-4338	2013	Indexed
8	Simulation of a Feed Forward Neural Network on FPGA	Engg. Sci. Int. Res. journal	1, 1, 40 ISSN 2320-4338	2013	Indexed
9	Home Automation Using Mobile Computing	IOSRJCE.	17, 6, V, pp15-19 ISSN:2278-8727	2015	UGC
10	Anomalous Attacker Evidence and Detection System in WSN	IJAER	13, 19, pp14313 - 14322	2018	Scopus 0.58
11	Cryptographic Tamper Evidence and detection System	IJPAM		2018	Scopus 0.64
12	Energy Minimization Method In Alkali Halides	IJET	4,1,pp613-619	2018	UGC

13	Schottky Defect Formation Energy in TMO	IJET	4,2,pp1064-1080	2018	UGC
14	Calculation of TBP in Rubidium Halides	IJMTEE	8, VI, pp365-368	2018	UGC
15	A New Secure and Computational Efficient Multicast Key Distribution System for Wireless Networks	IJAER	13,11, pp9034-9041	2018	UGC/SCOPUS
16	Modeling and Simulation of ground state divalent impurity-cation vacancy Defect complex	JMSE	6, 7 (Suppl.)	2017	Indexed
17	Modeling and Simulation of ground state divalent impurity-cation vacancy Defect complex	SVRMSJ	2,1 pp16-25	2014	Indexed
18	Related Key-Rectangle and Boomerang Combined Attack	IJCRT	6,1,pp70-75	2018	UGC
19	Evaluation of Differential-Linear Cryptanalysis Combined Attack on Cryptographic Security System	IJAER	13,23, pp16552-16563	2018	UGC/SCOPUS
20	A Review on Combined Attacks on Security Systems	IJAER	13, 23, pp16252-16278	2018	UGC/SCOPUS

## 2. International Refereed Conferences (19)

S.No	Title	Name of the Conference	Vol./Page No.	Year	ISSN/ ISBN No
1	Structural and Elastic Properties of Some Alkali Halides at High Pressure.	X I I I AIRAPT	proceedings	1991	-
2	Lattice Phonon Instability in NaCl during High Pressure Phase – Transition.	X I I I AIRAPT	proceedings	1991	-
3	A Proto-Type for Home Automation Using GSM Technology	ICPCES-2010	P69, pp. 47 ISBN No.978-1-4244-8543-7	2010	DOI: 10.1109 /ICPCES 2010 5698706
4	Computer Modeling and Simulation of Defect Complex	ICACCTHPA-10	pp. 204-208	2010	ISBN No. 978-81-910692-4
5	Computer Simulation of Schottky Defect Formation Energy of	ICN2010	pp. 932	2010	ISBN No 93-80697-23-6

	Transition Metal Oxide Structure				
6	Design of Cryptographic Tamper Detection Scheme for Network Security	CNSA 2011	CCIS 196; pp. 214-224 Springer-Verilog Berlin	2011	ISSN No: 1865-0929 ISBN No.978-3-642-22539-0 Scopus
7	Home Automation Using Mobile Communication	ICPCES-2010	pp. 417-421	2011	–
8	Computer Simulation of Point Defects in CoO and NiO	Proceedings of AIP	1349, pp. 873-874	2011	DOI: 10.1063/1.3606136 <a href="#">1551-7616 (web)</a>
9	Modeling and Simulation of Point Defects in Complex	ICIES-2013	Proc. Of ICIES 2013 Vol.1, 210	2013	ISBN 978-93-81583-92-0
10	Computer simulation of Point Defects in MnO and FeO	RAM 2013		2013	Proc. of AIP, USA
11	Computer Simulation Study of Structural Phase Transition and Elastic Properties of Rubidium Halides	ICIES-2013	Proc. Of ICIES 2013 Vol.1, 211	2013	ISBN 978-93-81583-92-0
12	Simulation of a Feed Forward Neural Network on FPGA	ICIES-2013	Proc. Of ICIES 2013 Vol.1, 210	2013	ISBN 978-93-81583-92-0
13	Design of a Cryptographic Tamper detection scheme for Network security	ICIES-2013	Proc. Of ICIES 2013 Vol.1, 56	2013	ISBN978-93-81583-92-0
14	Modeling and Simulation of Ground State Divalent Impurity (Ba 2+) Cation vacancy defect complex.	ICC 2015	Proc. ICC 2015	2015	Proc. of AIP, USA
15	Modeling and Simulation of Ground State Divalent Impurity Cation Vacancy Defect Complex	ICCOMP-2017	Presented	2017	Web Presentation
16	Design and Implementation of a Hacker Detection Scheme: A Network Security Measure in Heterogeneous WSN	ICICSE-2017	Presented		ICICSE2017_PAPER: 259 Scopus
17	Attacker Evidence System in WSN	ICAN2017	Presented	2017	ICAN2017_Paper_32 Scopus/Springer
18	Cryptographic Tamper Evidence and Detection Systems(CTEDS) for Network Security	ICCISC2017	Presented	2017	CISC-2017_paper_62 Scopus/Springer
19	Evaluation of Computational Efficient Multicast Key Distribution Scheme	ICCISC2017	presented	2017	CISC-2017_paper_31 Scopus/Springer

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### 3. National Refereed Conferences (29)

S.No	Title	Name of the Conference	Vol./Page No.	Place	Year
1	Static Simulation of Formation Energy and Volume of Formation of Vacancy Pair in Some Ionic Solids	SPS(DAE)	Proc. SSP (DAE) 31C pp 57	Bhopal University, Bhopal	1988
2	Diurnal Anisotropy of Cosmic Ray Intensities during Solar Cycles 19 and 20	NSSS	Proc. NSSS pp.29	PRL, Ahmedabad	1988
3	High Pressure Behavior of Sodium Halides	RCNS	Proc. RCNS	Gwalior University	1989
4	Structural and Elastic Properties of Some Insulating and Semi-conducting Materials.	DMMHP	Proc. DMMHP pp. 20	IGCAR, Kalpakkam	1989
5	Structural Phase – Transition in Barium Chalcogenides	SSP(DAE)	Proc. SSP (DAE) 32C pp280	IIT Madras	1989
6	Static Simulation of Binding Energy of $\text{Eu}^{2+}$ – Cat- ion Vacancy Complex in NaCl	SSP(DAE)	Proc. SSP (DAE) 32C pp 75	IIT Madras	1989
7	Pressure Dependence of Debye Temperature of Some Alkali Halides	SSP(DAE)	Proc. SSP (DAE) 33C	BARC Bombay	1990
8	Charge – Transfer Effect on One Phonon Raman Spectra of Europium Chalcogenides	SSP(DAE)	Proc. SSP (DAE) 33C	BARC Bombay	1990
9	Many – Body Effect on Formation and Binding Energies of Vacancy Pair in NaCl and KCl	SSP(DAE)	Proc. SSP (DAE) 33C	BARC Bombay	1990
10	Structural Phase Transition in KCl and KBr at High Pressure	ISC-93	Proc. ISC:PS: P23	ANGRA University,	2006
11	Meteors and The Origin of Life on Earth	ISC-93	Proc. ISC: PS: P51	ANGRA University,	2006
12	Charge Transfer Effects on Schottky Defect Formation Energy of CoO and NiO	ISC-93	Proc. ISC: PS P19	ANGRA University,	2006.
13	Computer Simulation of Charge Transfer Effects Around Schottky Defect of Crystal Lattice	NCKBFT' 07	Proc. NCKBCSFS 2007	Manipal University	2007
14	Computer Simulation of Schottky Defect Energy of Ionic Lattice	ISC-94	Proc. ISC: ICT, P 1	Annamalai University,	2007
15	Computer Simulation of Point Defects in CoO and NiO	SSP(DAE)	Sol. St. Phys. Symp. (DAE), 55C , G88, pp.27	Manipal University	2010
16	Computer Simulation of Point Defects in Divalent Metal Oxides	APSC-10	Proceedings of the Andhra Pradesh Science Congress	JNTUH	2010
17	Computer Simulation of	NCAM-2010	Proc. NCAM	PSN CET	2010

	Polarization Around Rare Earth Impurity and Cat-ion Vacancy Complex	,		Tirunelveli	
18	A Tamper Detection Scheme for Network security	NCINM 2011	Proc. Of NCINM pp 11-12	TCE Madurai	2011
19	Design and Implementation of a Tamper Detection Scheme	RITZ KAIZEN-11	Proc.NLTS	RIT Yanam	2011
20	Application of GSM Technology in Home Automation	ISC-98	Proc.98 <sup>th</sup> ISC: IV: ES: pp.71	SRM University, Chennai	2011
21	Computer Simulation Study of Schottky Vacancy Formation Energy of Ionic Solids	ISC-98	Proc.98 <sup>th</sup> ISC: IX: MS:pp.15	SRM University, Chennai	2011
22	Computer Simulation Study of High Pressure Behavior of RbCl and RbBr Crystals	ISC-98	Proc.98 <sup>th</sup> ISC: X: PS: pp. 27	SRM University, Chennai	2011
23	Web-based Corporate Training System	ISC-98	Proc.98 <sup>th</sup> ISC: VII: ICST:69 pp106	SRM University, Chennai	2011
24	Design and Development of a Web-Application for Web-based Counseling System	ISC-98	Proc.98 <sup>th</sup> ISC: VII: ICST :70, pp.108	SRM University, Chennai	2011
25	Schottky Defect Formation Energy of MnO and FeO	RAM2013	Accepted	GEC, Bikaner	2013
26	Study of BFS and CCDS used in Sleep scheduling in WSN	NCRTIT 12	Proc. of NCRTIT 12	CBIT, Osmania University	2013
27	An Effective Sleep / Wakeup Scheduling Algorithm for WSN	CETCSE2K17	Presented	NNRCET, Hyderabad	2017
28	Related Key-Rectangle and Boomerang Combined Attack on MDA	NTEST2018	Presented	MEC, Hyderabad	2018
29	Simulation of FFDNN using FPGA	NTEST2018	Presented	MEC, Hyderabad	2018