



Parthasarathy S
Professor

Contact

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Additional Charge : Director, University Informatics Centre (08 July 2015 –till date)

Academic Qualifications:

Degree	Subject	Year	University
B.Sc.	Physics	1983	University of Madras
M.Sc.	Physics	1985	Bharathidasan University
M.Phil.	Physics	1987	Bharathidasan University
Ph.D.	Physics	1993	Bharathidasan University
PGDCA	Computer Science	1991	Madurai Kamaraj University

Teaching Experience: 20 Years

Name of the post	Institution	Period	
		From	To
Professor	Bharathidasan University, Trichy - 620 024	16.03.2011	Till date
Associate Professor & Head	Bharathidasan University, Trichy - 620 024	16.03.2008	15.03.2011
Reader & Head	Bharathidasan University, Trichy - 620 024	16.03.2005	15.03.2008
Lecturer	National Institute of Technology (NIT), (Formerly REC) Trichy - 620 015	03.02.2000	15.03.2005

Research Experience: 27 Years

Name of the post	Institution	Period	
		From	To
Senior Scientist Bioinformatics	Monsanto Research Centre, I.I.Sc. Campus, Bangalore	15.04.1999	31.01.2000
Scientist	Bharathidasan University, Trichy - 620 024	09.09.1998	13.04.1999
Post-Doctoral Fellow	International Centre For Genetic Engg. & Biotechnology (ICGEB), Trieste, ITALY	01.10.1997	07.07.1998
Scientist (CSIR QRS Fellow range2)	Centre for Mathematical Modelling and Computer Simulations (C-MMACS) NAL, Bangalore	01.02.1996	31.07.1997
Post Doctoral Fellow (DBT)	Centre for Cellular and Molecular Biology (CCMB), Hyderabad	28.04.1993	31.01.1996

Additional Responsibilities

1. Member of the Syndicate : October 2014 – October 2017
2. Member of the Senate : March 2005 – till date
3. Member of the Standing Committee on Academic Affairs (SCAA) : March 2005 – October 2014
4. Head of the Department of Bioinformatics : March 2005 – June 2019
5. Director i/c, University Informatics Centre (UIC) : 08 July 2015 – till date
6. Director i/c, Council for College and Curriculum Development (CCCD) : 25 Jan 2011 – 28 Sep 2011
7. Special Officer to the Vice Chancellor (During 11 February 2008 – 31 June 2008)

Areas of Research

Bioinformatics, Computational Systems Biology, Nonlinear Dynamics and Chaos

Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	Ph.D.	5	2
	M.Phil.	18	0
Project	PG	14	3
	UG / Others	0	0

Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
38	7	2	4	4

Cumulative Impact Factor (as per JCR) : 97.781
h-index : 13
i10 index : 14
Total Citations : 808

Funded Research Projects

Completed Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	UGC	2012	2015	Identification of new inhibitors of penicillin binding protein 2B (PBP2B) of the Resistant strain of <i>Streptococcus pneumoniae</i> using structure based virtual screening	11.16
2	DIT	2008	2011	Development of Twilight Zone Sequence Annotation Tool using Structural Properties for the Annotation of Hypothetical Genes of Plant Genomes	24.88
3	DRDO	2005	2008	Chaotic Cryptography using Digital Signal Processors - Application to Secure Communication	13.40
4	CSIR	2004	2007	Nonlinear Dynamics of Pulsed Chaotic Circuits	8.21
5	DRDO	2002	2005	Bifurcations and Chaos in Periodically Pulsed Nonlinear Electronic Circuits - Application to Chaotic Cryptography and Secure Communication	8.46

Patents

Dr. S. Parthasarathy (2019) Generation of Never Born Protein Sequences Using Toeplitz Matrices. File Number 201941004408

Distinctive Achievements / Awards

1. Awarded 'President of India Cash Prize' for the best paper presented in the 31st Congress of the Indian Society for Theoretical and Applied Mechanics (ISTAM) held at Jiwaji Univ., Gwalior, India during October 24-27, 1986.
2. Selected as a Speaker in the Theoretical Physics Seminar Circuit (TPSC) programme for the year 1995-96 & 1998-99.
3. Awarded DBT Post Doctoral Fellowship at Cellular and Molecular Biology (CCMB), Hyderabad during April 1993 - January 1996.
4. Awarded Post Doctoral Fellowship at International Centre for Genetic Engineering and Biotechnology (ICGEB), Trieste, ITALY during October 1997 -

August 1998, through Department of Biotechnology (DBT), Govt.of India, New Delhi.

Events organized in leading roles

Number of Seminars / Conferences / Workshops / Events organized: 3

1. National Seminar on Bioinformatics (NSB'07) during March 3-4, 2007
2. Third Indo-US Lecture Series in Discrete Mathematical Chemistry - Special Lectures on Chemoinformatics and Bioinformatics during January 7-10, 2008 (Jointly with Prof. Subhash Basak, NRRI, Minnessotta, USA)
3. National Seminar on Bioinformatics (NSB'09) during February 23 - 24, 2009

Overseas Exposure / Visits

1. International Centre for Theoretical Physics, Trieste, ITALY, 9 - 27 September 1991. To participate in 'School on Dynamical Systems'
2. International Centre for Theoretical Physics, Trieste, ITALY, 24 October - 11 November 1994, To participate in 'Fourth Autumn Course on Mathematical Ecology'
3. Dept of Physics, Univ of Warwick, Coventry, UNITED KINGDOM, 12 - 17 November 1994, To do collaborative research and deliver a lecture
4. Dept of Zoology, Univ of Oxford, Oxford, UNITED KINGDOM, 18 November 1994, To visit and deliver a lecture
5. Dept of Appl Physics, Univ of Cantabria, Santander, SPAIN, 24 May - 14 June 1996. To do collaborative research and deliver a lecture
6. Dept of Mathematics, Univ of Patras, Patras, GREECE, 15 - 20 June 1996, To do collaborative research and deliver a lecture
7. International Centre for Theoretical Physics, Trieste, ITALY, 20 June - 20 July 1996. To participate in 'Workshop on Nonlinear Control & Control of Chaos'
8. International Centre for Genetic Engg. & Biotechnology, Trieste, ITALY, 1 October 1997 - 7 August 1998, To do post-doctoral research & training
9. Dept of Ecology and Evolutionary Biology, University of Tennessee, Knoxville, USA, 12 - 15 May 2003, To deliver a lecture and to do collaborative research
10. Centre for Nonlinear Studies, Georgia Institute of Technology, Atlanta, Georgia, USA, 16 - 20 May 2003, To deliver a lecture and to do collaborative research
11. Morehouse College, Atlanta, Georgia, USA, 21-24 May 2003, To participate, present a paper and chair a session in the 'Fourth International Conference on Dynamical Systems and Applications (ICDSA04)'
12. University of North Texas, Denton, Texas, USA, 25-29 May 2003, To participate and present a paper in the 'Dynamical Systems Conference Denton 2003 (DSD03)'

13. International Centre for Genetic Engg. & Biotechnology, Trieste, ITALY, 19 - 26 May 2007, To do collaborative research
14. National Resources Research Institute (NRRI), University of Minnesota-Duluth, Duluth, USA, 26 - 29 May 2007, To deliver a lecture and to do collaborative research
15. Morehouse College, Atlanta, Georgia, USA, 30 May 2007 - 2 June 2007 - To participate, present a paper and chair a session in the 'Fifth International Conference on Dynamical Systems and Applications (ICDSA5)'
16. Department of Mathematics, University of Louisville, Kentucky, USA, 3 - 6 June 2007, To deliver a lecture and to do collaborative research

Membership in

Professional Bodies

1. Life Member (L-118): Indian Society for Theoretical and Applied Mechanics (ISTAM), IIT, Kharagpur
2. Life Member (L-205): Cryptology Research Society of India, ISI, Kolkatta
3. Member : International Society for Computation Biology (ISCB), USA

Academic Bodies (such as Board of Studies etc.,)

1. Representative of Bharathidasan University in Board of Studies
 - Holy Cross College, Trichy
2. Representative of Bharathidasan University in Academic Council
 - Bishop Heber College Trichy
3. Representative of Bharathidasan University in Governing Body:
 - Srimad Andavan Arts and Science College (Autonomous), Tiruchirappalli
 - K.N.Govt Arts College for Women (Autonomous), Thanjavur
 - Govt Arts College for Women (Autonomus), Kumbakonam
4. Representative of Bharathidasan University in College Committee:
 - Jairam Arts and Science College, Karur
 - Naina Mohamed College of Arts and Science, Pudukkottai
 - National College of Arts and Science, Ariyalur
 - Annai Fathima College of Education, Kumbakonam
 - Valluvar College of Science and Management, Karur
5. Board of Studies

Chairman:

- Thiruvalluvar University, Vellore (11.03.2015 – 10.03.2018);
- Bharathidasan University, Trichy (16.04.2015 – 15.04.2018)
- Manonmaniam Sundaranar University, Tirunelveli

Member:

- University of Kerala, Thiruvnanthapuram;
- Karunya University, Coimbatore;
- Bishop Heber College, Trichy;
- Jamal Mohamed College, Trichy;
- GRD College of Arts and Science; Coimbatore,
- AVC College, Mayiladuthurai;
- Lady Doak College, Madurai

Resource persons in various capacities

Number of Invited / Special Lectures delivered: 40

Others

1. No. of PhD Thesis evaluated: 10
2. No. of PhD Public Viva Voce Examination conducted : 9

Recent Publications

Books

1. S. Parthasarathy, Essentials of Programming in C for Life Sciences, Ane Books India, New Delhi. First Edition, (2008), ISBN 978-81-8052-261-1; Second Edition, (2011), ISBN 978-93-8116-208-8.

Book Chapter (s)

2. S.Parthasarathy, Bioinformatics : Application to Genomics, In Bir Bahadur, Manchikatla Venkat, Rajam Leela Sahijram and K. V. Krishnamurthy (Eds.), Plant Biology and Biotechnology, Volume II (Chap.13, pp.279-300), Springer India Pvt. Ltd, New Delhi (2015).
3. B.S. Karthikeyan, S. Parthasarathy and M A. Akbarsha, Technologies to transform toxicity testing in the 21st century: In silico toxicology and its Battery of Methods, In C. Haldar and S. Ghosh (Eds.), Animals and Alternatives in Life Science Research, (Chap.7, pp.91-105), Luminous Books, Varanasi (2015).

Research Articles in Peer Reviewed Journals

International Journals

1. BKN Muthugobal, G Ramesh, S Parthasarathy, S Suvaithenamudhan, K Muthuvel Prasath (2020), Gray Code Representation of the Universal Genetic Code :

Generation of Never Born Protein Sequences using Toeplitz Matrix Approach, BioSystems, Elsevier (In Press) (Impact Factor: 1.808)

2. K Muthuvel Prasath, K Ganesan, S Parthasarathy, (2020), PredictSuperFam-PSS-3D1D: A server for predicting superfamily for the annotation of twilight zone sequences, Journal of Structural Biology. 210 (2), 107479. (doi: 10.1016/j.jsb.2020.107479) (Impact Factor: 3.071)
3. K Muthuvel Prasath, V Suresh, S Parthasarathy, (2020), PDB-2-PB.v3.0: An updated Protein Block database, Journal of Bioinformatics and Computational Biology, World Scientific, Singapore. 18 (2), 2050009. (doi: 10.1142/S0219720020500092) (Impact Factor: -Nil- ; 0.89 RG Journal Impact)
4. DM Rajathei, S Parthasarathy, S Selvaraj, (2019). Combined QSAR model and chemical similarity search for novel HMG-CoA reductase inhibitors for coronary heart disease, Current computer-aided drug design, Bentham Science Publishers, UAE, 16 (4), 473-485. (doi: 10.2174/1573409915666190904114247). (Impact Factor: 0.935)
5. DM Rajathei, S Parthasarathy, S Selvaraj, (2019), Identification and Analysis of long repeats of proteins at the domain level, Frontiers in Bioengineering and Biotechnology, 7, Article 250 (8 October 2019) (doi: 10.3389/fbioe.2019.00250). (Impact Factor: 4.210)
6. AA Margret, VV Dhayabaran, S Parthasarathy, S Suvaithenamudhan, (2019), Analysing the antidepressant and drug efflux competence of *Clitoria ternatea L.* as P-glycoprotein inhibitor to facilitate blood brain barrier, Acta Scientiarum. Biological Sciences. 41, e46629 (doi: 10.4025/actascibiols.v41i1.46629) (Impact Factor: - Nil- ; 0.14 RG Journal Impact)
7. DM Rajathei, S Parthasarathy, S Selvaraj, (2019). QSAR Analysis of Multimodal Antidepressants Vortioxetine Analogs Using Physicochemical Descriptors and MLR Modeling, Current computer-aided drug design, Bentham Science Publishers, UAE, 15 (4), 294-307. (Impact Factor: 0.935)
8. BS Karthikeyan, S Suvaithenamudhan, MA Akbarsha, S Parthasarathy, (2018), Analysis of Species-Selectivity of Human, Mouse and Rat Cytochrome P450 1A and 2B Subfamily Enzymes using Molecular Modelling, Docking and Dynamic Simulations, Cell Biochemistry and Biophysics, Springer, USA, 1-20. (Impact Factor: 2.073)
9. S Suvaithenamudhan, S Parthasarathy, (2017), Molecular Dynamics Simulations of Novel Potential Inhibitors for Penicillin Binding Protein 2B of the Resistant 5204 Strain of *Streptococcus pneumoniae*, Current computer-aided drug design, Bentham Science Publishers, UAE, 13 (3), 234-248. (Impact Factor: 0.935)
10. KM Saravanan, S Suvaithenamudhan, S Parthasarathy, S Selvaraj, (2017), Pairwise contact energy statistical potentials can help to find probability of point mutations, Proteins: Structure, Function, and Bioinformatics, John- Wiley, USA, 85 (1), 54-64. (Impact Factor: 2.828)

11. BS Karthikeyan, MA Akbarsha, S Parthasarathy, (2016), Network analysis and cross species comparison of protein-protein interaction networks of human, mouse and rat cytochrome P450 proteins that degrade xenobiotics, *Molecular BioSystems*, UK, 12 (7), 2119-2134. (Impact Factor: 2.830)
12. S.Suvaithenamudhan and S.Parthasarathy, (2016), Structure based virtual screening for the identification of potential inhibitors for penicillin binding protein 2B for the resistant 5204 strain of *Streptococcus pneumoniae*, *Current Bioinformatics*, Bentham Science Publishers, UAE, 11 (1), 66-78 (Impact Factor: 0.920)
13. AA Margret, TN Begum, S Parthasarathy, S Suvaithenamudhan, (2015), A strategy to employ *clitoria ternatea* as a prospective brain drug confronting monoamine oxidase (MAO) against neurodegenerative diseases and depression, *Natural products and bioprospecting*, Springer, Berlin Heidelberg, 5(6), 293-306.
14. V.Suresh and S.Parthasarathy, (2014), SVM-PB-Pred: SVM Based Protein Block Prediction Method using Sequence Profiles and Secondary Structures, *Protein and Peptide Letters*, Bentham Science Publishers, UAE, 21(8), 736-742. (Impact Factor: 1.130)
15. K.Ganesan and S.Parthasarathy, (2013), PredictFold-PSS-3D1D: A Protein Fold Recognition Server for Predicting Folds from the Twilight Zone Sequences, *Curr. Bioinfo.*, Bentham Science Publishers, UAE, 8, 552-556. (Impact Factor: 0.920)
16. R.Jothi, Jannet Vennila and S.Parthasarathy, (2013), Computational studies on the resistance of Penicillin-Binding Protein 2B (PBP2B) of wild-type and mutant strains of *Streptococcus pneumoniae* against β -lactam antibiotics, *Chem. Biol. Drug Des.*, John-Wiley, USA, 82, 275-289. (Impact Factor: 2.485)
17. V.Suresh, K.Ganesan and S.Parthasarathy, (2013), A Protein Block based Fold Recognition Server for the Annotation of Twilight Zone Sequences, *Protein & Peptide Letters*, Bentham Science Publishers, UAE, 20, 249-254. (Impact Factor: 1.168)
18. V.Suresh, K.Ganesan and S.Parthasarathy, (2012), PDB-2-PB: A curated online Protein Block sequence database, *J. Appl. Cryst.*, 45, 127-129. (Impact Factor: 3.720)
19. K.Ganesan and S.Parthasarathy, (2011), PSS-3D1D: An improved 3D1D profile method of protein fold recognition for twilight zone sequence annotation, *J. Struct. Funct. Genomics*, 12(4), 181-189.
20. R.Jothi, S. Parthasarathy and K.V.Krishnamurthy, (2010), Computational Internal Sequence Repeats Analysis of Accelerated Evolution and the Role of Extensins involved in Abiotic and Biotic Stresses, *Open Access Bioinformatics*, Dove Medical Press, 2, 157-168.
21. R.Jothi, S.Parthasarathy and K.Ganesan, (2008), Comparison of the virulence factors of TIGR4, D39, G54 and R6 strains of *Streptococcus pneumoniae* using comparative genomics tools, *J. Comp. Sci. Syst. Biol.* 1, 103-118. (Impact Factor: 1.620)

22. A.Venkatesan, S.Parthasarathy, M.Lakshmanan, (2003), Occurrence of multiple-period-doubling bifurcation route to chaos in periodically pulsed chaotic dynamical systems, *Chaos, Solitons & Fractals*, 18, 891 - 898. (Impact Factor: 1.448)
23. P.Muruganandam, S.Parthasarathy and M.Lakshmanan, (1999), Comment on 'Intermittent Synchronization in a Pair of Coupled Chaotic Pendula', *Phys. Rev. Lett.* 83, 1259. (Impact Factor: 7.512)
24. J. Murvai, K. Vlahovicek, E.Barta, S.Parthasarathy, H.Heagyi, F.Pfeiffer and S.Pongor, (1999), The Domain Server: Direct Prediction of Protein Domain Homologies from BLAST Search, *Bioinformatics* 15, 343-344. (Impact Factor: 4.981)
25. M.G.Munteanu, K.Vlahovicek, S.Parthasarathy, I.Simon and S.Pongor, (1998), Rod Models of DNA: Sequence-dependent anisotropic elastic modelling of local phenomena, *Trends in Biochemical Sciences*, 23, 341-347. (Impact Factor: 11.227)
26. S.Parthasarathy and S.Rajasekar, (1998), Probability distribution characteristics of chaos in a simple population model and the BVP oscillator, *Physical Review E* 58, 6839-6842. (Impact Factor: 2.288)
27. N.Parekh, S.Parthasarathy and S.Sinha, (1998), Global and local control of spatiotemporal chaos in coupled map lattices, *Physical Review Letters*, 81, 1401-1403. (Impact Factor: 7.512)
28. S.Parthasarathy and J.Guemez, (1997), Synchronization of chaotic metapopulations in a cascade of coupled logistic map models, *Ecological Modelling*, 106, 17-25. (Impact Factor: 2.321)
29. S.Parthasarathy and J.M.Dixon, (1997), Analytic structure and chaotic dynamics of the damped driven Toda oscillator, *Physical Review E*, 55, 3942-3947. (Impact Factor: 2.288)
30. Somdatta Sinha and S.Parthasarathy, (1996), Unusual Dynamics of Extinction in a Simple Ecological Model, *Proceedings of National Academy of Sciences (USA)* 93, 1504-1508. (Impact Factor: 9.674)
31. S.Parthasarathy and Somdatta Sinha, (1995), Controlling of Chaos in Unidimensional Maps using Constant Feedback, *Physical Review E*, 51, 6239-6242. (Impact Factor: 2.288)
32. T.C.Bountis, L.B.Drossos, M.Lakshmanan and S.Parthasarathy, (1993), On the non-integrability of a family of Duffing-van der Pol oscillators, *Journal of Physics A* 26, 6927-6942. (Impact Factor: 1.583)
33. S.Parthasarathy, (1992), Homoclinic bifurcation sets of the parametrically driven Duffing oscillator, *Physical Review A*, 46, 2147-2150. (Impact Factor: 2.808)
34. S.Rajasekar, S.Parthasarathy and M.Lakshmanan, (1992), Prediction of Horseshoe chaos in BVP and DVP oscillators, *Chaos, Solitons & Fractals*, 2, 271-280. (Impact Factor: 1.448)

35. S.Parthasarathy and M.Lakshmanan, (1991), "Analytic structure of the damped driven Morse oscillator", Physics Letters A, 157, 365-370. (Impact Factor: 1.683)
36. S.Parthasarathy and M.Lakshmanan, (1990), "On the analytic structure of the driven pendulum", Journal of Physics A, 23, L1223-L1228. (Impact Factor: 1.583)
37. B.Dey and S.Parthasarathy, (1990), "Spatial chaos in Nonlinear monatomic chain", Physical Review B, 42, 6433-6437. (Impact Factor: 3.736)
38. S.Parthasarathy and M.Lakshmanan, (1990), "On the exact solutions of the Duffing oscillator", Journal of Sound and Vibration, 137, 523-526. (Impact Factor: 1.813)

National Journals

1. R.Jothi, K.Manikandakumar, K.Ganesan and S.Parthasarathy, (2007), On the analysis of the virulence nature of TIGR4 and R6 strains of Streptococcus pneumoniae using genome comparison tools, J. Chem. Sci., Indian Academy of Sciences, Bangalore, India, 119, 559-563. (Impact Factor: 1.191)
2. Somadatta Sinha and S. Parthasarathy, (1994), Behavior of Simple Population Models under Ecological Processes, Journal of Biosciences, Indian Academy of Sciences, Bangalore, India, 19, 247 - 254

Research Papers Presented at International Conferences

1. Singularity Structure and Chaotic Dynamics of the Parametrically Driven Duffing Oscillator, in: Symmetries and Singularity Structures: Integrability and Chaos in Nonlinear Dynamical Systems (Eds.) M.Lakshmanan and M.Daniel, (Springer, Heidelberg, 1990) pp.104-111.
2. Analytic Structure Studies of certain Damped and Driven Dynamical Systems - presented at the 'School on Dynamical Systems' held at ICTP, Trieste, ITALY, during 9 - 27 Sep, 1991.
3. Survival and Extinction Dynamics of Simple Population Models - presented at the 'Fourth Autumn Course on Mathematical Ecology' held at ICTP, Trieste, ITALY during 24 Oct - 11 Nov 1994.
4. Controlling of Chaos in Unidimensional Maps using Constant Feedback - presented at the 'Workshop on Nonlinear Control & Control of Chaos' held at ICTP, Trieste, ITALY during 20 June - 20 July 1996.
5. S.Parthasarathy and K.Srinivasan, (2004), Multiple period-doubling bifurcation route to chaos in periodically pulsed chaotic oscillators, Proc. of Dynamic Systems and Applications, 4, 80-86 - presented at the 'Fourth International Conference on Dynamical Systems and Applications (ICDSA04)' held at Morehouse college, Atlanta, Georgia, USA during May 21-24, 2003.
6. Occurrence of Multiple period-doubling bifurcation route to chaos in discrete population dynamical models under seasonal migration - presented at the

"Dynamical Systems Denton 2003 (DSD03)" held at University of North Texas, Denton, Texas, USA during May 25-29, 2003.

7. S.Parthasarathy, K.Manikandakumar, K.Ganesan, R.Jothi and R.Natarajan, Chaos Game Representation of Protein Sequence Families, Proc. of Dynamic Systems and Applications 5 (2007) 376- 379 - presented at the 'Fifth International Conference on Dynamical Systems and Applications (ICDSA05)' held at Morehouse college, Atlanta, Georgia, USA during 30 May 2007 - 2 June 2007

Research Papers Presented at National Conferences

1. Ordered and chaotic motions in the Duffing oscillator, Proceedings of the 31st congress of the Indian Society for Theoretical and Applied Mechanics, (ISTAM, India,1988) pp.1-10. (Award winning paper)
2. On the exact solutions and chaotic motions of the Duffing oscillator - presented at the Workshop on 'Computational and Computer Oriented Studies on Soliton Systems' held at Calcutta University, Calcutta during 29 Jan - 1 Feb 1987.
3. S. Parthasarathy and K. Ganesan, A protein fold recognition server to predict the folds of twilight zone sequences, Proceedings of the National Conference on Proteomics Applications: Perspectives in Healthcare (NCPH'10) pp.2-6 (2010).
4. Bifurcations and Chaos in the Logistic Map and Duffing Oscillator - delivered a invited lecture at the Workshop on 'Nonlinear Dynamics' for College Teachers held at Center for Nonlinear Dynamics, Bharathidasan University, Tiruchirappalli during Jan 3-6, 2001.

Contact Information

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