



Computer Society of India™

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BIO DATA (format)

POST FOR WHICH NOMINATED: *DIV – V (E & R)-Chairman*

1. Name **Dr. SURESH CHANDRA SATAPATHY**

2. CSI Membership No. **I1502090**

3. Membership Type: Life/Annual/Institutional : **Life**

4. CSI Membership since **2007**

5. E-mail address **sureshsatapathy@gmail.com**

6. Date of Birth (Age) **09-05-1964**

7. Postal Address **Anil Neerukonda Institute of Technology & Sciences**

Sangivalasa 531162

Bheemunipatnam (Mandal)

**Vishakapatnam (District), Andhra Pradesh,
India**

8. Phone/ Mobile/ Fax Nos. : **9000249712 Phone : 8933-225083,225084,226131 Fax : 08933-226395**

9. Educational Qualifications : PhD

10. **Publications** – relevant to the office being nominated for :

1. Suresh Chandra Satapathy, N. Sri Madhava Raja, V. Rajinikanth, Nilanjan Dey, Amira S. Ashour, Multi-level Image Thresholding using Otsu and Chaotic Bat Algorithm, Neural Computing and Applications [Accepted-Oct., 2016] (**Springer, IF: 1.492, SCOPUS Indexed**)

2. Anima Naik, Suresh Chandra Satapathy, Nilanjan Dey, Amira S. Ashour, Social Group Optimization for Global Optimization of Multimodal Functions and Data Clustering Problems, Neural Computing and Applications [Accepted-Oct., 2016] (**Springer, IF: 1.492, SCOPUS Indexed**)

3. Amira S. Ashour, Nilanjan Dey, Suresh Chandra Satapathy, Knowledge Mining from Medical Images, Chapter 10, CRC book, Mining Multimedia Documents Edts. Wahiba Karaa and Nilanjan Dey [Accepted, 2016]



4. Yesmine BEN AMAR, Imen Trabelsi, Nilanjan Dey, Fuqian Shi, suresh Chandra satapathy, Med Salim Bouhlef, "Robust watermarking of polygonal meshes based on vertex norms variance distortion," Journal of Global Information Management, IGI Global, Special Issue On: Content Protection and Management in E-commerce: Approaches to Multimedia Security, 2016. (**SCI IF: 0.424, SCOPUS Indexed**) [Accepted]
5. Amartya Mukherjee, Vaibhav Keshray, Karan Pandya, Nilanjan Dey, Suresh Chandra Satapathy "Flying Ad-Hoc Networks: A Comprehensive Survey", 3rd International Conference on Computer and Communication Technologies (IC3T-2016), Springer,2016
6. Special issue Guest Editor, Bio-inspired Computing in Engineering Problem Solving, International Journal of Applied Metaheuristic Computing (IJAMC), IGI Global, US, Other Guest Editors: Nilanjan Dey, Amira S. Ashour.
7. Special issue Guest Editor, End-user Privacy, Security, and Copyright issues, IJ of Computing and Informatics, Other Guest Editors: Nilanjan Dey, B. Surekha.
8. ParwekarPritee; Satapathy,SureshChandra; Parwekar,Ambarish , " Innovative Teaching Methodologies for Engineering Education",MOOCs, Innovation and Technology in Education (MITE), 2016 IEEE 4th International Conference on Year: 2016.
9. Pritee Parwekar, Sireesha Rodda ,Dr. Suresh Chadra Satapathy "Solar Energy Harvesting: an Answer for EnergyHungry Wireless Sensor Networks" , CSI Communications 39 (Issue No. 10), 23-26, Volume No. 39 • Issue No. 10 • Jan 2016
10. ParwekarPritee; Satapathy SureshChandra; Parwekar,Ambarish"Optimal instructional methods for engineering studies"MOOCs, Innovation and Technology in Education (MITE), 2015 IEEE 3rd International Conference on Year: 2015 Pages: 337 - 341, DOI: 10.1109/MITE.2015.7375341 IEEE Conference Publications
11. Bhateja V, Verma A, Rastogi K, Malhotra C, Satapathy SC. Performance improvement of decision median filter for suppression of salt and pepper noise. InAdvances in Signal Processing and Intelligent Recognition Systems 2014 (pp. 287-297). Springer International Publishing.
12. Sinha AK, Bhateja V, Sharma A, Satapathy SC. Bilateral Filtering in Wavelet Domain for Synthesis of Flash and No-Flash Image Pairs. In Information Systems Design and Intelligent Applications 2015 (pp. 797-805). **Springer AISC (SCOPUS indexed)** .
13. Srivastava A, Bhateja V, Tiwari H, Satapathy SC. Restoration algorithm for gaussian corrupted MRI using non-local averaging. InInformation Systems Design and Intelligent Applications 2015 (pp. 831-840). Springer India.
14. Sharma R, Bhateja V, Satapathy SC, Gupta S. Communication Device for Differently

Abled People: A Prototype Model. In Proceedings of the International Conference on Data Engineering and Communication Technology 2017 (pp. 565-575). Springer Singapore.

15. Sharma R, Bhateja V, Satapathy SC. GSM Based Automated Detection Model for Improvised Explosive Devices. In Information Systems Design and Intelligent Applications 2016 (pp. 673-681). Springer India.

16. Robust Color Image Multi-thresholding Using Between-Class Variance and Cuckoo Search Algorithm, Information Systems Design and Intelligent Applications Advances in Intelligent Systems and Computing Date: 06 Feb 2016

17. A Hybrid Approach for Image Edge Detection Using Neural Network and Particle Swarm Optimization, Emerging ICT for Bridging the Future - Proceedings of the 49th Annual Convention of the Computer Society of India (CSI) Volume 1 2015 Volume 337 of t

18. Filtering in Wavelet Domain for Synthesis of Flash and No-Flash Image Pairs Information Systems Design and Intelligent Applications, Volume 340 of the series Advances in Intelligent Systems and Computing pp 797-805. Date: 21 January 2015.

19. Partition Based Clustering Using Genetic Algorithm and Teaching Learning Based Optimization: Performance Analysis, Analysis Emerging ICT for Bridging the Future - Proceedings of the 49th Annual Convention of the Computer Society of India CSI Volume 2 Volume 338 of

20. An Hybrid Approach for Data Clustering Using K-Means and Teaching Learning Based Optimization, Emerging ICT for Bridging the Future - Proceedings of the 49th Annual Convention of the Computer Society of India CSI Volume 2 2014 Volume 338 of the

21. Modified Teaching-Learning Based Optimization Algorithm For Global Numerical optimization-A Comparative Study, Elsevier Publisher, Issn2210-6502, Vol-16, June2014 Pp: 28-37.

22. A Survey on Fault Management Techniques in Distributed Computing, Proceedings of the International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA) Volume 199 of the series Advances i

23. An Eminent Approach of Fault Management Using Proactive and Reactive Techniques in Distributed Computing, Proceedings of the International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA) Volume 199 of the series Advances i

24. Cluster Analysis on Different Data Sets Using K-Modes and K-Prototype Algorithms, Algorithms ICT and Critical Infrastructure: Proceedings of the 48th Annual Convention of Computer Society of India- Vol II 2013 Volume 249 of the ser

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35. Teaching Learning Based Optimized Mathematical Model for Data Classification Problems ,Proceedings of the International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA) 2013 Volume 199 of the series Advan
36. QoS Multicast Routing Using Teaching Learning Based Optimization ,Proceedings of International Conference on Advances in Computing 2013 Volume 174 of the series Advances in Intelligent Systems and Computing pp 49-55.
37. Efficient Clustering of Dataset Based on Differential Evolution ,Proceedings of the International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA) 2013 Volume 247 of the series Advan

38. D-Pattern Evolving and Inner Pattern Evolving for High Performance Text Mining ,Proceedings of the International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA) 2013 Volume 247 of the series Advan
39. A Study of Roulette Wheel and Elite Selection on GA to Solve Job Shop Scheduling ,Proceedings of the International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA) 2013 Volume 199 of the series Advan
40. Modified Harmony Search for Global Optimization ,Proceedings of the International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA) 2013 Volume 199 of the series Advan
41. A Comparative Analysis of Results of Data Clustering with Variants of Particle Swarm Optimization ,Swarm, Evolutionary, and Memetic Computing Volume 8298 of the series Lecture Notes in Computer Science 2013 pp 180-192.
42. Performance of Teaching Learning Based Optimization Algorithm with Various Teaching Factor Values for Solving Optimization Problems ,Problems Proceedings of the International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA) 2013 Volume 247 of the ser
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46. Hybridization of Rough Set and differential Evolution Techniques for Optimal features selection ,International Conf on Information System design and Intelligent Applications (India 2012), Proceedings Springer AISC-132, pp. 453-460, January 2012.
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optimization, ,International journal of Industrial Engineering Computation, 2012, DOI: 10.5267/j.ijec.2012.06.001

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53. GP Boosting Classification on Concept Drifting Data Streams ,Proceedings of the International Conference on Information Systems Design and Intelligent Applications 2012 (INDIA 2012) held in Visakhapatnam, India,

54. Genetic Algorithm for Optimizing Functional Link Artificial Neural Network Based Software Cost Estimation ,Proceedings of the International Conference on Information Systems Design and Intelligent Applications 2012 (INDIA 2012) held in Visakhapatnam, India,

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56. Removal of False Minutiae with Fuzzy Rules from the Extracted Minutiae of Fingerprint Image ,Proceedings of the International Conference on Information Systems Design and Intelligent Applications 2012 (INDIA 2012) held in Visakhapatnam, India,

57. An Efficient Data Structure for Document Clustering Using K-Means Algorithm ,Proceedings of the International Conference on Information Systems Design and Intelligent Applications 2012 (INDIA 2012) held in Visakhapatnam, India,

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58. Teaching Learning Based Optimization for Neural Networks Learning Enhancement ,Swarm, Evolutionary, and Memetic Computing Volume 7677 of the series Lecture Notes in Computer Science 2012 pp 761-769.

59. Artificial Bee Colony Based Image Clustering ,Proceedings of the International Conference on Information Systems Design and Intelligent Applications 2012 (INDIA

2012) held in Visakhapatnam, India,

60. Hybridization of Rough Set and Differential Evolution Technique for Optimal Features Selection ,Selection Proceedings of the International Conference on Information Systems Design and Intelligent Applications 2012 (INDIA 2012) held in Visakhapatn

61. A Modified and Efficient Shuffled Frog Leaping Algorithm (MSFLA) for Unsupervised Data Clustering ,Advances in Computing and Communications Volume 192 of the series Communications in Computer and Information Science pp 543-551,2011.

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63. A Software Tool for Data Clustering Using Particle Swarm Optimization ,Optimization Swarm, Evolutionary, and Memetic Computing 2011 Volume 6466 of the series Lecture Notes in Computer Science pp 278-285.

64. Genetic Algorithm for Optimizing Neural Network Based Software Cost Estimation ,Swarm, Evolutionary, and Memetic Computing Volume 7076 of the series Lecture Notes in Computer Science 2011 pp 233-239.

65. A Study of Decision Tree Induction for Data Stream Mining Using Boosting Genetic Programming Classifier Swarm, Evolutionary, and Memetic Computing ,2011 Volume 7076 of the series Lecture Notes in Computer Science pp 315-322.

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68. Cat swarm Optimization based Neural Network and particle swarm optimization neural network in stock rates prediction , IEEE Vol. 04, pp.292-296., Feb 2011.

69. Fingerprint Image Enhancement with Neural Network and effective Extraction of Minutiae, Vol4. Pp. 301-305, ,3rd International conf. on Machine Learning and Computing IEEE Conf, Singapore, Feb 2011

70. Integrated PSO and DE or data clustering,Vol 2. Pp. 443-447 ,3rd International conf. on Machine Learning and Computing. IEEE Conf., Singapore, Feb 2011.

71. Function Optimization with adaptive differential evolution techniques, ,Vol 2, pp.460-463 3rd International conf. on Machine Learning and Computing. IEEE Conf., Singapore, Feb 2011.

72. X-as-a Service: Cloud Computing with Google App Engine, Amazon Web Services, Microsoft Azure and Force.com ,International Journal of Computer science and Telecommunications, Volume: 2(9), pp. 8 - 16, December - 2011
73. Virtualization Techniques and Technologies ,Journal of Global research in Computer science, Volume: 2(12), pp. 29 - 43, December – 2011 (**IF - 2.01**).
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76. RDBMS to NoSQL: Reviewing some Next-Generation Non-relational databases, ,International Journal of Advanced engineering Sciences and Technologies, Volume: 11(1), pp. 15 - 30, 2011
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81. A Comparative Analysis of unsupervised K-Means, Self Organized PSO for Image Clustering ,IEEE International Conf on Computational Intelligence and Multimedia Applications. Sivakasi, India Dec 2007
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83. Cat Swarm Optimization for Optimizing Hybridized Smoothing Filter In Image Edge Enhancement ,International Conference on Systemic, Cybernetics and Informatics, Hyderabad, January 2011.

84. Data Clustering based on Teaching Learning based optimization, ,International Conference on Swarm, Evolutionary, Memetic Computing (SEMCCO 2011), Proceedings by Springer-LNCS 7077 PP 148-156, December 2011.
85. A Parallel Hybridization of Clonal Selection with shuffled Frog Leaping Algorithm for solving Global Optimization Problem , ,International Conference on Swarm, Evolutionary, Memetic Computing (SEMCCO 2011), Proceedings By Springer-LNCS 7077 PP 211-222, December 2011.
86. Data Clustering using Modified Fuzzy-PSO ,The 5thMulti Disciplinary International Workshop on AI, ,Proceedings by Springer LNAI-7080, PP. 136-146, December 2011.
87. Data Clustering Using Modified Fuzzy-PSO (MFPSO) Multi-disciplinary Trends in Artificial Intelligence ,2011 Volume 7080 of the series Lecture Notes in Computer Science pp 136-146.
88. Data Clustering Based on Teaching-Learning-Based Optimization 2011 Swarm, Evolutionary, and Memetic Computing ,Volume 7077 of the series Lecture Notes in Computer Science pp 148-156.
89. A Comparative Study of CSO and PSO Trained Artificial Neural Network for Stock Market Prediction Trends in Computer Science, Engineering and Informati ,Volume 204 of the series Communications in Computer and Information Science 2011 pp 186-195.
90. Effective Image Clustering with Differential evolution technique, ,International Journal of Computer & Communication Technology, 2010, ISSN: 0975 - 7449, Volume: 2(1), pp. 11 19.
91. Data Clustering Using Almost Parameter Free Differential Evolution Technique ,International Journal of Computer Applications ISSN: 0975 - 8887, Volume: 8(13), published by Foundation of Computer Science, October – 2010, (IF-0.55).
92. Constrained and Unconstrained Function Optimization using PSO ,International Conference on Swarm, Evolutionary, Memetic Computing (SEMCCO 2010), SRM University Chennai, 2010.
93. A Novel approach to image Edge Enhancement using Particle Swarm Optimization Algorithm for Hybridized Smoothing Filters, ,Southern Regional Conference (SRC-2010) on Advances in Information and Communication Technology, CSI Proceeding pp.83-96, 2010
94. A wrapper Approach of Feature selection using GP ensemble classifier ,International Conference on Systemic, Cybernetics and Informatics (ICSCI-2010) Hyderabad, January 2010

95. Hybridized PSO and GA for Data Clustering with Parallel and Transitional approach ,International Conference on Systemic, Cybernetics and Informatics (ICSCI-2010) Hyderabad, January 2010
96. SOPSO Clustering: A comparison Analysis ,International Conference on Systemic, Cybernetics and Informatics (ICSCI-2010) Hyderabad, January 2010
97. Particle swarm Optimized Multiple Regression Linear Model for Data Classification ,Applied Soft Computing Journal published by Elsevier Sciences
98. Design of Simple ANN (SANN) model for Data Classification and its performance Comparison with FLANN ,IJCSNS International Journal of Computer Science and Network security
99. Performance Comparisons of PSO based Clustering ,InterJRI- Computer Science and Networking journal **(IF -1.02)**
100. Hybrid Kalman Particle Swarm Optimized Data Clustering ,Journal of Data Engg and Computer Science
101. A scalable Genetic Programming Multi-Class ensemble Classifier ,IEEE International Symposium on Nature and Biologically Inspired Computing and applications (NaBIC-2009) World Congress Bhubaneswar, December 2009
102. Minimal ANN (MANN) model for Data Classification ,IEEE International Symposium on Nature and Biologically Inspired Computing and applications (NaBIC-2009) World Congress Bhubaneswar, December 2009
103. Hybridized Improved Genetic Algorithm with variable Length Chromosome for Image clustering ,International Journal of Computer Science and Network Security.
104. Implementation of an Improved GA for Data Clustering ,Technology Spectrum Journal by JNTU, Hyderabad
105. A new approach of integrating PSO & improved GA for clustering with parallel and transitional technique ,3rd International Conference on Natural Computation (sponsored by IEEE),Haikou, China

11. Contribution to the IT profession:

- ☐ Program Chair and Editor for Springer AISC Volumes,CSI 2014,JNTUH,Hyderabad
- ☐ Program Chair and Editor for Springer AISC Volumes,FICTA 2014.,BEC,Bhubaneswar
- ☐ Program Chair and Editor for Springer AISC Volumes,CSI 2013,JNTUH,Hyderabad

- ☐ Program Chair and Editor for Springer AISC Volumes, FICTA 2013., BEC, Bhubaneswar
- ☐ Paper reviewer for Elsevier Journals (Information Sciences, Swarm and Evolutionary Computation) Conducted Training program (AICTE-SDP) being a Resource Person on Soft Computing Applications to Data Mining in GMRIT , Rajam.
- ☐ Visited Malaysia and Bangkok and Singapore to present papers
- ☐ Hosted the National conference on Soft Computing and its applications (NCSCA-07) being the co-ordinator, at ANITS, 2007
- ☐ Acted as resource person on "Engineering Ethics" at ANITS for Final year students
- ☐ Coordinated NBA accreditation process for Dept of CSE, ANITS
- ☐ Selected as Reviewer for IET Information Security journal (formerly known as IEE proceedings for Information Security)
- ☐ Editorial Board member of Journal of Data Engg and Computer Science, published by GRIET, Hyderabad
- ☐ Reviewer for "Advances in Applied Research (formerly named Indian Journal of Applied Research)"
- ☐ Selected in 2010 Edition of Marquis Who's Who in the World
- ☐ Acted as resource person in Data Mining Refresher course conducted by UGC-ASC, JNTU , Hyderabad
- ☐ Received a grant of Rs 7 lak for SDP from AICTE on " Computational Intelligence and its Applications to Data Mining"
- ☐ Received a grant of Rs 5.75lak for RPS from AICTE
- ☐ Received AICTE-MODROBS grant of Rs 8 lak for Advanced Networking lab
- ☐ Edited Two volumes Springer LNCS 7076 and 7077 and Springer AISC 132
- ☐ Organized two international conf www.semfancco.info (SEMCCO and FANCCO 2011) and www.inconindia2012.info (INDIA 2012) as Program Chair and organizing Chair
- ☐ Currently organizing one more international conf as program Chair, www.ficta.in
- ☐ In publicity committee of IEEE SSCI 2013, Singapore
- ☐ In publicity committee of SEMCCO and FANCCO 2012
- ☐ Elevated to Senior Member IEEE by IEEE USA
- ☐ Nominated as Secretary cum Treasurer, IEEE Computational Intelligence Society, Hyderabad for 2011-12

☑ Selected as Eligible guide for PhD in JNTU Kakinada

☑ Selected as Editorial Board Member of an International Journal " Statistics, Optimization and Information Computing".

12. Contribution made to CSI – Hold the position of Div-V (Chair) for 1025-17. Instrumental in bringing first time Springer proceedings to CSI National Convention at CSI 2013 convention at Vizag. Organized number of events under Div-V at various places of India. Many conferences held and branches were opened under my motivations.

13. Experience - relevant to the position nominated for : Has more than 28 years of experience in Education and research. Editor of 7 International journals and has already edited 30 nooks from Springer. Organized more than 15 International conferences being Organizing Chair/Program Chair/Editors etc. Produced 2 PhDS in CSE and currently guiding 4 more. Developed own indigenous algorithm on Optimization which is recently published by Springer. Delivered many invited talks and workshops on cutting edge technologies.

14. Honours/ Professional Recognition: Sr IEEE member, LM of CSI,

15 Other Relevant Information : Editor and Reviewer of many reputed journals from Springer, Elsevier, IGI Global, Inderscience etc

16. In case of Nominees who are holding or have held an Elected post in CSI ExecCom or NC in the last 3 years: Positions held :

a. ***DIV – V (E & R)-Chairman***

b. Statements of Intent submitted for the above positions :

If I am elected as a chairperson E and R of Div-V, I promise to commit myself to the responsibility I am entrusted with. My first task will be to involve more and more students in the mainstream of CSI. I am of opinion that our under-graduate and graduate students should be involved more to strengthen our society activities My priority will be to conduct workshops/training programs etc regularly in various chapters and branches in Div V. Each year I commit to conduct one International cong with the support of Springer, Germany in different locations as per the advice of CSI HQ. I shall try to strengthen the SIG wings of CSI and involve students to derive the benefits. I shall organize Lecturer series in chapters on various emerging technologies. Project contests, Research ideas presentations will be regular activities in CSI branches. I shall plan for faculty exchange programs for ideas sharing. I am open to suggestions of all my friends of CSI to contribute to the growth of society. I herewith give my consent and willingness to devote time for the society and attend meetings as and when I am asked for. I give my acceptance to stand for election to the nominated office.

c. Results achieved/ action taken :

- a) Was instrumental in opening 6 students branches
- b) Conducted 3 workshops
- c) Organized 6 International conferences with Springer
- d) Made more than 90 life members across India
- e) Initiated National RoboCompetition in India under CSI

Statement of Intent- 2017 Election

If I am elected as a chairperson E and R of Div-V, I promise to commit myself to the responsibility I am entrusted with. My first task will be to involve more and more students in the mainstream of CSI. I am of opinion that our under-graduate and graduate students should be involved more to strengthen our society activities My priority will be to conduct workshops/training programs etc regularly in various chapters and branches in Div V. Each year I commit to conduct one International cong with the support of Springer, Germany in different locations as per the advice of CSI HQ. I shall try to strengthen the SIG wings of CSI and involve students to derive the benefits. I shall organize Lecturer series in chapters on various emerging technologies. Project contests, Research ideas presentations will be regular activities in CSI branches. I shall plan for faculty exchange programs for ideas sharing. I am open to suggestions of all my friends of CSI to contribute to the growth of society. I herewith give my consent and willingness to devote time for the society and attend meetings as and when I am asked for. I give my acceptance to stand for election to the nominated office.