

BIO-DATA

General Information:

Dr. Ananthanarayana V.S.,
Professor (HAG)
Dept. of Information Technology,
National Institute of Technology Karnataka, Surathkal, P.O. Srinivasnagar, Pin: 575 025

Scopus Id: 23396223700
Google Scholar Id: UZ3IqX4AAAAJ
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Education:

Degree	University/Institution
Post Doctoral Fellow	Memorial University of Newfoundland, Canada
Ph. D	Indian Institute of Science, Bangalore
M.E.(Computer Science and Engg)	Indian Institute of Science, Bangalore
B.E.(Computer Science and Engg)	Karnatak University, Dharwad

Awards and Recognitions:

1. **Secured 1st rank** in IInd year B.E, 2nd rank in 3rd year B.E and 4th year B.E. to the Karnatak University.
2. Received **Distinguished Service Award** from NITK, Surathkal during Golden Jubilee Celebrations, August, 2010.
3. Honored as **Outstanding Alumni** for the remarkable progress as an academican by BasaveshwarEngineering College during Silver Jubilee Celebrations of Computer Science and Engineering Department on 19 – 21st, February 2011.
4. **Best Paper Award:** For the paper, “Delivering LBA with LBS using Service Oriented Architecture” In International Symposium for Cloud and Services Computing (ISCOS) 2012, Dec 17 – 18, 2012, NITK, Surathkal, pg 70 - 75.
5. **Best Paper Award:** For the paper, “ EfficientTreeMiner: Mining Frequent Induced Substructures from XML Documents without Candidate Generation”, In the Proc. of 14th International conference on Advanced Computing and Communication (ADCOM-2006), pp: 541- 546, Dec 2006, India.
6. **Best Paper Award:** For the paper, “Extraction and optimization of Fuzzy association rules using Multi-objective Genetic Algorithm”, In the Proc. of International Conference on Bioinformatics and diabetes melitus (ICBDM 2006), pp: 121-128, March 2006.

7. The PhD thesis supervised by me bagged BITES **Best PhD Thesis Award** for the year 2009 in the category of "Computer Science & Engineering", 2010.

Research Area:

Machine Learning, Data Mining, Distributed Computing, Web Services, Databases, Big Data, Semantic Web

Professional Experience:

Employer	Position Held	Date of Joining	Date of Leaving
N.I.T.K. Surathkal	Professor (HAG)	24-10-2018	To date
N.I.T.K. Surathkal	Professor	09-4-2005	23-10-2018
N.I.T.K. (formerly K.R.E.C) Surathkal	Asst. Professor	09-4-1997	08-4-2005
N.I.T.K. (formerly K.R.E.C) Surathkal	Lecturer	18-6-1990	08-4-1997
Teaching Experience		35 Years	
Research Experience (Post-Ph.D.)		23 Years	

Research Guidance:

Sl.No	Thesis Title	Scholar Name	Status	Guidance
1.	Abstraction Based Efficient Algorithms for Clustering Large Datasets	Mrs. Radhika M Pai	Completed	Single Principal Supervisor
2.	Abstraction and Knowledge based Mining of Inter-database Association Rules	Mrs. SanthiThilagam	Completed	Single Principal Supervisor
3.	A QoS Broker Based Architecture for Dynamic Web Services and Compositions	Mr. Demian Antony D'Mello	Completed	Single Principal Supervisor
4.	Abstraction Based Mining of Quantitative Association Rules	Mr. Preetham Kumar	Completed	Single Principal Supervisor
5.	Decentralized Registry Based Web Services Architecture For Location Based Services	Mr. Melwyn D'Souza	Completed	Single Principal Supervisor
6.	Web UR: Effective Techniques for Web Usage Mining and Recommender System	Mrs. Poornalatha	Completed	Joint Supervisor
7.	DWDS: A Scalable, Context-Aware	Mrs. Sowmya Kamath S	Completed	Single Principal Supervisor

	Framework for Distributed Web Service Discovery using Semantics			
8.	Effective Multimedia Document Representations for Knowledge Discovery	Mrs. Pushpalatha K	Completed	Single Principal Supervisor
9.	Design and Development of Trusted Semantic Framework for Context Aware Sensor Driven Pervasive Environment	Mr. Karthik N	Completed (June 2020)	Single Principal Supervisor
10.	An Efficient Framework for Information Retrieval From Linked Data	Mr. Sakti Murugan R	Completed (Feb 2021)	Single Principal Supervisor
11.	An Efficient MapReduce Scheduler	Mr. Rathinaraja J	Completed (June 2020)	Single Principal Supervisor
12.	A Framework for Efficient Clinical Recommendation System in Health Sector	Mr. Shashank Shetty	Completed (July 2023)	Single Principal Supervisor
13.	Area: Machine Translation	Mr. Richard Saldanha	In Progress	Joint Supervisor
14.	Area: NLP & Data Analytics	Mrs. Reshma U	In Progress	Joint Supervisor
15.	DNN for Medical Image Processing	Avinash Jha (MTech By Research)	Completed (April 5 2024)	Single Principal Supervisor
16.	Agentic AI	Brijesh G N	In Progress	Single Principal Supervisor

Publications (SCOPUS/WoS Indexed):

1. International Journals: 44
2. International Conferences: 118

Publications details, refer **Annexure A**

Sponsored Research Projects:

Principal Investigator:

1. Distributed Computing and Web Services, Duration: 3 1/2 Yrs from March 2007, Budget: 5 Lakhs, Agency: Start-up grant, NITK
2. Knowledge discovery in multi- Databases, Duration: 3 1/2 Yrs from Feb 2004, Budget: 8 Lakhs, Agency: MHRD, GOI
3. Decision Support System for Delivery Management using Fetus Weight Estimation and Maternal Features, Duration: 3 Years from March 2024, Grant: SERB-TARE, Role: Mentor Budget: 18.3Lakhs [ANRF/F/1349/2024-25, Dated 14 May 2024]

Co-investigator:

1. Graphics system design (Development of Graphics Lab), Duration: 3 Yrs from 1993, Budget: 6 Lakhs

Other Projects:

1. Special Project by MHRD: Centralized Counselling for MTech/M.Des/M.Arch Admissions, 2016.
Duration: 1 Year
Budget: Rs.5 Crore
Role: Technical Committee Convener
2. Special Project by NITK Surathkal: Academic Centric Student Information System (2017)
Duration: 2 Years
Budget: Rs. 53,68,000
Role: Convener
3. Special Project: Visvesvaraya PhD Scheme for Electronics & IT (since 2017)
Duration: 5 Years
Budget: Rs. 1009.2516 Lakhs
Agency: Media Lab Asia under Ministry of Electronics and IT, Govt
Role: Convener/ Nodal Officer
4. Automated DASA Admission Process 2014, 2019, 2020
Budget: Rs. 2Cr
Agency: MHRD
Role: Technical Committee Member
5. MISRA Count Automation: Log Analysis and GUI Development Project
Duration: 1 Year, 2023-24
Budget: Rs. 4,38,795
Agency: Marelli, India
Role: Project Lead
6. IMU Algorithms
Duration: 1 Year, 2023-24
Budget: Rs. 7,39,778
Agency: Marelli, India
Role: Co-PI
7. EMC Automation
Duration: 1 Year, 2024 – 25
Budget: Rs. 7, 15, 640
Agency: Marelli, India
Role: Principal Investigator
8. AR-HUD Design
Duration: 1 Year, 2024 – 25
Budget: Rs. 8, 64, 360
Agency: Marelli, India
Role: Co-Principal Investigator

Administrative Positions:

Period (Month and Year)	Organization with address	Department	Designation	Specific work carried out
Oct 2018 – Nov 2021	N.I.T.K., Surathkal	N.I.T.K., Surathkal	Deputy Director	Institute level Administration
2018 – 2021	N.I.T.K., Surathkal	MIS	Chairman	Institute level MIS
Sept 2016 – Dec 2018	N.I.T.K., Surathkal	N.I.T.K., Surathkal	Dean (Research & Consultancy)	Institute Research & Consultancy Work Administration
Aug 2012 - Aug 2015	N.I.T.K., Surathkal	Information Technology	Professor & Head	Head of the Department
April 2006 - Sept 2009	N.I.T.K., Surathkal	Information Technology	Professor & Head	Head of the Department
July 2002 - July 2004	N.I.T.K., Surathkal	Information Technology	Head	Head of the Department
Jan 2010 - Aug 2012	N.I.T.K., Surathkal	Central Computer Centre	Chairman	Common computing facility administration for N.I.T.K
Sept 2009 - Aug 2012	N.I.T.K., Surathkal	Health Care Centre	Chairman	Health care facility administration for N.I.T.K
Feb 2003 - July 2004	N.I.T.K., Surathkal	IGNOU Study Centre (1315P)	Program - in - Charge	Administrative duties of IGNOU study centre

Patent – Granted (1):

OMS Docket No.	OMS.0065.000299
Patent Number	374782
Application Number	201641025735
Filing date	27/07/2016
Date of grant	18/08/2021
Title	METHOD AND SYSTEM FOR DYNAMIC WORD ENCODING AND COMPRESSION OF DATA
Applicant (s)	National Institute of Technology Karnataka

Inventor(s)	1. Dr. Ananthanarayana V.S 2. Sakthi Murugan R.
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Professional & Outreach Activities:

1. Organizing Chair, Program Chair, Publication Chair, Advisory Committee Member, Program Committee Member for several conferences.
2. Board of Studies member, Academic auditor, Selection committee member, Doctoral committee member for Computer Science discipline for many Institutions
3. National Board Accreditation (NBA) expert member for Information Technology and Computer Science discipline, Expert member for NAAC.
4. Organized many workshops and FDP programs in recent areas of Information Technology
5. Delivered many invited talks, special lectures in the area of data mining, distributed computing and web services.
6. Chairman of many internal committees at NITK

Annexure A

Publications (Detail):

International Journal Publications (44):

1. ``Multi-Dimensional Semantic Clustering of Large Databases for Association Rule Mining'', Ananthanarayana, V.S., Narasimha Murty, M., Subramanian, D.K.
Pattern Recognition Journal, Vol 34, Issue 4, 2001, 939 - 941.
<http://www.sciencedirect.com/science/article/pii/S003132030000128X>
2. ``An Incremental Data Mining Algorithm for Compact Realization of Prototypes'', Ananthanarayana, V.S., Narasimha Murty, M., Subramanian, D.K.
Pattern Recognition Journal, Vol 34, Issue 11, 2001. pg 2249 – 2251.
<http://www.sciencedirect.com/science/article/pii/S0031320301000280>
3. ``Efficient Clustering of Large Data Sets'', Ananthanarayana, V.S., Narasimha Murty, M., Subramanian, D.K.,
Pattern Recognition Journal, Vol 34, Issue 12, 2001. pg 2561 – 2563.
<http://www.sciencedirect.com/science/article/pii/S0031320301000978>
4. ``Tree Structure for Efficient Data Mining Using Roughsets'', Ananthanarayana, V.S., Narasimha Murty, M., Subramanian, D.K.,
Special Issue on Roughsets, Pattern Recognition and Data Mining of Pattern Recognition Letters, Vol.24, No. 6, 2003. pg 853 – 862.
<http://www.sciencedirect.com/science/article/pii/S0167865502001976>
5. ``Knowledge-Based Association Rule Mining Using AND-OR Taxonomies'', Ananthanarayana, V.S., Narasimha Murty, M., Subramanian, D.K.,
Knowledge Based Systems, Vol. 16, 2003. pg 35 – 45.
<http://www.sciencedirect.com/science/article/pii/S0950705102000503>
6. `` Scalable, Distributed and Dynamic Mining of Association Rules'' V.S. Ananthanarayana, D.K Subramanian, M. Narasimha Murty.
Lecture Notes in Computer Science, Vol. 1970, Yr 2000, Publisher : Springer- Verlag. Pg 559 – 566.
http://link.springer.com/chapter/10.1007%2F3-540-44467-X_51
7. ``Binding and Execution of Web Service Compositions'' Vidyasankar K., Ananthanarayana V.S.
Lecture Notes in Computer Science, Vol.3806, Yr 2005, Publisher :Springer. Pg 258 – 272.
http://link.springer.com/chapter/10.1007%2F11581062_20#page-1
8. ``Dynamic Primary Copy with Piggy-backing Mechanism for Replicated UDDI Registry '' Ananthanarayana V.S., Vidyasankar K.
Lecture Notes in Computer Science, Vol. 4317, Yr 2006, Publisher Springer. Pg 389 – 402.
http://link.springer.com/chapter/10.1007%2F11951957_34#page-1
9. ``Extraction and optimization of Fuzzy Association Rules using Multi-objective Genetic Algorithm'' P.SanthiThilagam , Ananthanarayana VS.
Pattern Analysis and Applications, Vol 11, Issue 2, Yr. 2008, Pg 159 - 168, Springer.
<http://link.springer.com/article/10.1007/s10044-007-0090-x>
10. ``Meta-Tree based Mining of XML documents for frequent induced subtrees'' P.SanthiThilagam , Ananthanarayana VS.,

- International Journal of Information Processing, ISSN 0973-8215, Vol 2, Issue 1, Pg. 89 -99, 2008.
<http://www.ijipbangalore.org/accepted.php>
11. **"An abstraction based communication efficient distributed association rule mining "**
 P.SanthiThilagam , Ananthanarayana VS.,
 LNCS series (Vol. 4904) by Springer Verlag , ISBN 0302-9743, 2008, Pg 251 – 256.
http://link.springer.com/chapter/10.1007%2F978-3-540-77444-0_23#page-1
 12. **"Discovery of Frequent Itemsets Based on Minimum Quantity and Support"** Preetham Kumar, Ananthanarayana V.S.,
 International Journal of Computer Science and Security IJCSS, Vol.3, issue 3, Pg 216 - 225, 2009.
<http://www.cscjournals.org/library/manuscriptinfo.php?mc=IJCSS-86>
 13. **"Semantic web service selection based on service provider's business offerings"**
 Demian Antony D'Mello, VS Ananthanarayana
 International Journal of Simulation: Systems, Science and Technology Vol. 10, Issue 2, Pg. 25-37, 2009.
<http://ijssst.info/Vol-10/No-2/paper3.pdf>
 14. **"Quality and Business Offer Driven Selection of Web Services for Compositions"**
 Demian Antony D'Mello, VS Ananthanarayana
 Communications in Computer and Information Science (CCIS), Vol 31, Springer-Verlag Berlin Heidelberg 2009, pg 76 - 81, 2009
 15. **"Dynamic Selection Mechanism for Quality of Service Aware Web Services"**
 Demian Antony D'Mello, Ananthanarayana V.S.,
 International Journal on Enterprise Information System, Vo1 1, No. 4, Feb 2010, pg 23 - 60, Taylor & Francis, ISSN 1751 – 7575 print / ISSN 1751 – 7583 online.
<http://www.tandfonline.com/doi/abs/10.1080/17517570903159467>
 16. **"Frequent Term Based Clustering of Stories with Semantic Analysis for Searching and Retrieval"**
 Amrut Nagasunder, Bharat B, Madhu Venkatesh, Ananthanarayana V.S.
 International Journal of Advanced Research in Computer Science (IJARCS), Vol. 1, No. 3, 2010, pg 219 – 227, ISSN No. 0976 – 5697.
<http://www.ijarcs.info/?wicket:bookmarkablePage=:com.genxcellence.journal.pharmacy.web.issue.ArchivesIssueList>
 17. **"The Broker Based Dynamic Web Service Selection Mechanism to Handle a Large Volume of Requests"**
 Demian Antony D'Mello, Ananthanarayana V.S.,
 International Journal of Information Processing (IJIP), Vol. 3, No. 2, pg24 - 36, 2010.
http://www.academia.edu/10011468/The_Broker_Based_Dynamic_Web_Service_Selection_Mechanism_to_Handle_a_Large_Volume_of_Requests
 18. **"A Review of Dynamic Web Service Composition Techniques"**
 Damian Antony D'Mello, V.S Ananthanarayana, SupriyaSalian
 Communications in Computer and Information Science (CCIS), Vol. 133, Springer-Verlag Berlin Heidelberg 2010, pg 85 – 97, 2010.
https://link.springer.com/chapter/10.1007/978-3-642-17881-8_9
 19. **"An Efficient Mining of Dominant Entity Based Association Rules in Multi-Databases"**
 Ananthanarayana V.S.
 Communications in Computer and Information Science (CCIS), Vol. 154, Springer-Verlag Heidelberg 2011, pg 91 – 100, 2011.

http://link.springer.com/chapter/10.1007%2F978-3-642-21153-9_9

20. **“Service Offer Driven Dynamic Selection Mechanism for Web Services”**
Demian Antony D'Mello, Ananthanarayana V.S.,
International Journal of Web Sciences (IJWS), Vol. 1, Issue 1-2, DOI:
10.1504/IJWS.2011.044084, August 2011.
<http://www.inderscienceonline.com/doi/abs/10.1504/IJWS.2011.044084>
21. **“Effective web service description and dynamic discovery mechanism based on the functional semantics”**
Demian Antony D'Mello, Ananthanarayana V.S
International Journal of Web Science, Volume 1, Issue 4, Pages 332-367, 2012.
<http://www.inderscienceonline.com/doi/abs/10.1504/IJWS.2012.052534>
22. **“Review of QoS Driven Optimal Selection of Web Services for Compositions”**
Demian Antony D'Mello, V.S. Ananthanarayana
Lecture Notes of the Institute for Computer Sciences, Social Informatics and
Telecommunications Engineering (LNICST), Vol 85, pg 553-562, 2012.
https://link.springer.com/chapter/10.1007/978-3-642-27308-7_59
23. **“A novel Multi-Threaded K-Means clustering approach for intrusion detection”**
VS Ananthanarayana, V Pathak,
Journal: Software Engineering and Service Science (ICSESS), Page 22-24, 2012.
<http://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=6269577>
24. **“Semantic Web Services - Discovery, Selection and Composition Techniques”**
Sowmya Kamath, V.S. Ananthanarayana
International Journal of Computer Networks and Communications, pg 151 - 158, 2013.
DOI: 10.5121/csit.2013.3616.
25. **“Enhanced LBS Discovery in a Decentralized Registry Based Web Services Environment”**
Melwyn D'Souza and V.S. Ananthanarayana
Journal on Web Engineering (JWE) 2014, RintonPress (Princeton, New Jersey), Vol. 1 & 2,
ISBN: 1540-9589.
<http://www.rintonpress.com/xjwe13/jwe-13-12/001-023.pdf>
26. **“A Bio-inspired, Incremental Clustering Algorithm for Semantics based Web Service Discovery”**
Sowmya Kamath, Ananthanarayana V.S.
Special Issue on “Soft Computing and Intelligent Information Systems” of the International
Journal of Reasoning-Based Intelligent System (Inderscience Journal), Vol. 7, No. 3/4, pg.
261 - 275, 2015.
<http://www.inderscience.com/offer.php?id=72953>
27. **“Semantic Similarity based Context-Aware Web Service Discovery using NLP Techniques”**
Sowmya Kamath, Ananthanarayana V.S.
Journal on Web Engineering (JWE), Rinton Press (Princeton, New Jersey), Vol. 15, Issue
1&2, pg. 110 - 129, (ISSN 1540-9589) 2015.
<http://www.rintonpress.com/xjwe15/jwe-15-12/110-139.pdf>
28. **“Feature Pattern Based Representation of Multimedia Documents for Efficient Knowledge Discovery”**
Pushpalatha K, Ananthanarayana V.S.
MULTIMEDIA TOOLS AND APPLICATIONS, pg. 1 - 27, DOI: 10.1007/s11042-016-3434-
y, 2016.
<http://link.springer.com/article/10.1007%2Fs11042-016-3434-y>

29. "Discovering Composable Web Services based on Functional Semantics and Service Dependencies using Natural Language Requests"
Sowmya Kamath, Ananthanarayana V.S.
Information Systems Frontiers - Springer International Journal (ISSN: 1387-3326 (Print) 1572-9419 (Online)), pp 1–15, 2016.
<https://link.springer.com/article/10.1007/s10796-017-9738-2>
30. "Semantic based Web Service Classification using Morphological Analysis and Ensemble Learning Techniques"
Sowmya Kamath, Ananthanarayana V.S.
International Journal on Data Science and Analytics, Springer Hiedelberg, ISSN:2364-4168, December 2016, Volume 2, Issue 1–2, pp 61–74 2016
<https://link.springer.com/article/10.1007/s41060-016-0026-x>
31. "A Tree based Representation for Effective Pattern Discovery from Multimedia Documents"
PushpalathaK, Ananthanarayana V S.
Pattern Recognition Letters, Volume 93, 1 July 2017, Pages 143-153
<http://www.sciencedirect.com/science/article/pii/S0167865516302707>
32. "A Hybrid Trust Management Scheme for Wireless Sensor Networks"
Karthik N, Ananthanarayana V.S.
International Springer Journal on Wireless Personnel Communications, 2017, Vol. 96, page 1- 34.
<https://link.springer.com/article/10.1007/s11277-017-4772-4>
33. "Context Aware Trust Management Scheme for Pervasive Healthcare"
Karthik N and V. S. Ananthanarayana
International Springer Journal on Wireless Personnel Communications, **2019**, Vol. 105, Issue 3, pg: 725 - 763.
<https://link.springer.com/article/10.1007/s11277-018-6091-9>
<https://doi.org/10.1007/s11277-018-6091-9>
34. "Trust based Data gathering in Wireless Sensor Networks"
Karthik N and V. S. Ananthanarayana
International Springer Journal on Wireless Personnel Communications, **2019**
(In Press)
DOI: 10.1007/s11277-019-06491-y
35. "WordCode using WordTrie"
Sakthi Murugan R., V.S. Ananthanarayana
Journal of King Saud University - Computer and Information Sciences (Elsevier Publications), Volume 34, Issue 3, March 2022, Pg: 923-933
<https://doi.org/10.1016/j.jksuci.2019.05.011>
36. Dynamic ranking-based MapReduce job scheduler to exploit heterogeneous performance in a virtualized environment
J. Rathinaraja, V. S. Ananthanarayana, and Anand Paul
The Journal of Supercomputing (Springer Journal), 75, **2019**, pg: 7520 - 7549
<https://doi.org/10.1007/s11227-019-02960-0>
37. "Fine-grained data-locality aware MapReduce job scheduler in a virtualized environment"
J. Rathinaraja, V. S. Ananthanarayana, and Anand Paul
Journal of Ambient Intelligence and Humanized Computing (Springer), **2020**. (SCIE and Scopus, IF: 1.9)

DOI: 10.1007/s12652-020-01707-7

38. **Improving performance of MapReduce Scheduler for Heterogeneous Workloads in a Heterogeneous Environment**
J. Rathinaraja, V. S. Ananthanarayana, and Anand Paul
Concurrency and Computation: Practice and Experience (Wiley), **2019**. (SCIE and Scopus, IF: 1.1)
DOI: 10.1002/cpe.5558
39. MS-CheXNet: An Explainable and Lightweight Multi-scale Dilated Network with DepthwiseSeparable Convolution for Prediction of Pulmonary Abnormalities in Chest Radiographs
Shashank Shetty; Ananthanarayana V S.; AjitMahale
Multidisciplinary Digital Publishing Institute (MDPI) Mathematics (SCIE-Q1 Journal), Special Issue: Deep Learning and Machine Learning Mathematical Models for Computer Assisted Diagnostic Systems(ISSN 2227-7390), Mathematics 2022, 10(19), 3646;
<https://doi.org/10.3390/math10193646> (registering DOI) - 05 Oct 2022
<https://www.mdpi.com/2227-7390/10/19/3646/pdf>
40. ComprehensiveReview of Multimodal Medical Data Analysis: Open Issues and Future ResearchDirections
Shashank Shetty; Ananthanarayana V S.; AjitMahale
Acta Informatica Pragensia2022, Volume 11, Issue 3, pp. 423–457
Special Issue: Sustainable Solutions for Internet of Things UsingArtificial Intelligence and Blockchain in Future Networks [Open Access]
<https://doi.org/10.18267/j.aip.202>
<https://aip.vse.cz/pdfs/aip/2022/03/09.pdf>
41. Multimodal Medical Tensor Fusion Network-based DL Framework for Abnormality Prediction from the Radiology CXRs and clinical text reports
Shashank Shetty; Ananthanarayana V S.; AjitMahale
International Journal on Multimedia Tools and Applications, Publisher: Springer Nature, February 2023
<https://doi.org/10.1007/s11042-023-14940-x>
[https://trebuchet.public.springernature.app/get_content/4c8c6ab9-7523-48c7-bad3-0387a0a471a1]
42. Efficient parameter tuning of neural foundation models for drug perspective prediction from unstructured socio-medical data
Reshma Unnikrishnan,Sowmya Kamath S., Ananthanarayana V.S.
Engineering Applications of Artificial Intelligence, Elsevier Publications, Volume 123, Part A, August 2023, 106214
<https://doi.org/10.1016/j.engappai.2023.106214>
43. Cross-Modal Deep Learning-based Clinical Recommendation System for Radiology Report Generation from Chest X-rays
Shashank Shetty, Ananthanarayana V. S., AjitMahale
International Journal of Engineering
[10.5829/IJE.2023.36.08B.16](https://doi.org/10.5829/IJE.2023.36.08B.16)
44. SMC-CNN: Stacked Multi-Channel Convolution Neural Network for predicting Acute Brain Infarct from Magnetic Resonance Imaging Sequences
Shashank Shetty, Ananthanarayana V. S., AjitMahale, Suba Arul Devi
IEEE Access, November 2024
Print ISSN: 2169-3536
Online ISSN: 2169-3536

Book Publications (1)

Machine Learning – Theory and Practice

Authors: MN Murty and Ananthanarayana V.S

Publisher: Universities Press, Hyderabad

ISBN: 9789393330697

Year of Publication: April 2024

Book Chapter

1. Leveraging Language Models for Location-specific Disease Mortality Rate Prediction from Large-scale Social Data
Reshma Unnikrishnan, Sowmya Kamath S., Ananthanarayana V.S.
A book chapter on Decision-making in Computational Intelligence-based Systems (642847), SpringerNature Publication, June 2025.

2. dd

International Conferences (115)

1. **And-Or Concept for Mining Generalized Association Rules"**
Ananthanarayana, V.S., Subramanian, D.K., Narasimha Murty, M.,
International Conference on Knowledge Based Computer Systems, 2000. pg 70 – 81.
2. **"Scalable, Distributed and Dynamic Mining of Association Rules"**
Ananthanarayana, V.S., Subramanian, D.K., Narasimha Murty, M.,
International Conference on High Performance Computing, 2000, pg 559 – 566. [Acceptance ratio : 14/127 = 11%]
http://link.springer.com/chapter/10.1007%2F3-540-44467-X_51
3. **"Mining Multiple Databases for Inter-Database Association Rules"**
Ananthanarayana, V.S., Subramanian, D.K., Narasimha Murty, M.,
International Conference on Knowledge Based Computer Systems, 2000. pg 58 – 69.
[Acceptance ratio : 40/160 = 25%]
<https://books.google.co.in/books?isbn=8177641107>
4. **"Dynamic Data Mining"**
Ananthanarayana, V.S., Narasimha Murty, M., Subramanian, D.K.,
Int. Conf. on Knowledge Based Computer Systems, 2002. pg 47 – 57.
5. **"Association Rule Mining Activity : A General Formalism"**
Ananthanarayana, V.S., Narasimha Murty, M., Subramanian, D.K.,
International Conference on Computer, Communication and Control Technologies (CCCT'03) and 9th International Conference on Information System Analysis and Synthesis (ISAS'03), 2003. pg 173 – 178.
6. **"Binding and Execution of Web Service Compositions"**
Vidyasankar K., Ananthanarayana V.S
6th International Conference on Web Information Systems Engineering, November 2005, NY, USA.
http://link.springer.com/chapter/10.1007%2F11581062_20
7. **"Node Set Partitioning Algorithm (NSP) for Efficient Mining of Association Rules in Distributed Databases"**

- P.SanthiThilagam , Ananthanarayana V.S.,
Punjab technical education, International Conference on Emerging Trends in IT Industry
(ICET-2004), Nov 27, 2004, Ludhiana.
8. ``Association Rule Mining in Distributed Databases”
P.SanthiThilagam , Ananthanarayana V.S.,
International Conference on Emerging Technology, 21-24th December 2004, Bhubaneswar.
 9. ``Mining Frequent Sub trees from XML Documents”
P.SanthiThilagam , Ananthanarayana VS.,
13th International Conference on Advanced Computing and Communications ,2005 (ADCOM
2005), Dec 14 -17, 2005
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