

FACULTY NAME: Prof. ANANTHANARAYANA V.S

CONSULTANCY AND FUNDED RESEARCH PROJECTS

LIST OF PAPERS PUBLISHED IN INTERNATIONAL JOURNALS

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LIST OF TECHNICAL REPORTS

PROFESSIONAL ACTIVITIES

CONSULTANCY AND FUNDED RESEARCH PROJECTS

- Special Project by MHRD : Centralized Counselling for MTech/MDes/Arch Admissions, 2016.
Duration : 1 Year
Budget : Rs.5 Crore
Role : Technical Committee Convener
- Special Project by NITK Surathkal: Academic Centric Student Information System (2017)
Duration : 2 Years
Budget : Rs. 53,68,000
Role: : Convener
- Project: Visvesvaraya PhD Scheme for Electronics & IT
Duration : 5 Years
Budget : Rs. 1009.2516 Lakhs
Agency : Media Lab Asia under Ministry of Electronics and IT, GoI
Role : Convener/ Nodal Officer
- Automated DASA Admission Process
Budget : Rs. 20 Lakhs
Agency : MHRD
Role : Technical Committee Member
- Subject Material Expert (SME)
Course title : Web based course material development on “Distributed Computing Systems”.
Agency : NPTEL, Funded by MHRD, Govt. of India.
- R & D Project : Distributed Computing and Web Services
Duration : 3½ Yrs from March 2007.
Budget : 5 Lakhs
Agency : Start-up grant, NITK
- R & D Project : Knowledge discovery in multi- Databases
Duration : 3½ Yrs from Feb 2004.
Budget : 8 Lakhs
Agency : MHRD, GOI

- Graphics system design (Devt. Of Graphics Lab)
Duration : 3 Yrs from 1993
Budget : 6 Lakhs
- Fully automated payroll system for CAMPCO industry, 1991.

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12. [“Discovery of Frequent Itemsets Based on Minimum Quantity and Support”](#)
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13. [“Semantic web service selection based on service provider’s business offerings”](#)
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14. [“Dynamic Selection Mechanism for Quality of Service Aware Web Services”](#)
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17. [“The Broker Based Dynamic Web Service Selection Mechanism to Handle a Large Volume of Requests”](#)
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3. "Dynamic Tree Structure for Efficient Classification",
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57. "[Challenges \(Research Issues\) in Web Services](#)"
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60. "An Efficient Mining of Dominant Entity Based Association Rules in Multi- Databases"
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61. "[Decentralized Registry Based Architecture for Location-Based Services](#)"
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Shashank Shivakumar, Dr. Ananthanarayana V.S., Nikhil Goel, Cilson Cyriac, P.Rajaram
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69. "[Cloud based Service Registry for Location Based Mobile Web Services System](#)",
Melwyn D'Souza and Ananthanarayana V. S.(2013),
2nd International Conference on Advanced Computing, Networking and Security - ADCONS '13, (Dec 15 -17, 2013) NITK, Surathkal, INDIA, IEEE Xplore.
70. "Energy-aware Task Scheduling in Cloud"
Linda J, Ananthanarayana V.S.
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71. "Virtual Machine Migration over Heterogeneous Native Hypervisors"
Pratik Falke, Ananthanarayana V.S
2nd International Conference on Emerging Research in Computing, Information, Communication and Applications (ERCICA) 2014, 1st - 2nd August, NMAMIT, Bangalore
72. "An Approach for Multimedia Information Retrieval Based on Harmonized Representation of Multimedia"
Pushpalatha K, Ananthanarayana V.S.
8th International Conference on Image and Signal Processing (ICISP) 2014, 25th - 27th, July 2014, UVCE, Bangalore.
73. "Detection and Classification of Object"
Sulochan Naik, Ananthanarayana V.S.
2nd International Conference on Emerging Research in Computing, Information, Communication and Applications (ERCICA) 2014, 1st - 2nd August, NMAMIT, Bangalore
74. "An Improved Association Rule Mining for Distributed System with Load Balancing"
Alok Kumar, Ananthanarayana V.S.
2nd International Conference on Emerging Research in Computing, Information, Communication and Applications (ERCICA) 2014, 1st - 2nd August, NMAMIT, Bangalore

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Sowmya Kamath S and Ananthanarayana V.S
2014 IEEE/ACM International Conference on Data Science and Advanced Analytics (DSAA 2014), Oct 30 – Nov 1, 2014, Shanghai, China.
76. ["A Service Crawler Framework for Similarity based Web Service Discovery"](#),
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Sowmya Kamath S and Ananthanarayana V.S.
14th IEEE Symposium on Signal Processing and Information Technology (IEEE-ISSPIT 2014), 15 - 17 December, 2014, New Delhi, India
79. "Comparative Performance Evaluation of Semi-automatic WSDL to OWL-S Mapping Tools"
Sowmya Kamath S and Ananthanarayana V.S.
12th IEEE India International Conference (INDICON 2015) on Electronics, Energy, Environment, Communication, Computer Control E3-C3, 17-20 Dec 2015, New Delhi, India.
80. "A New Glowworm Swarm Optimization Based Clustering Algorithm for Multimedia Documents "
Pushpalatha K, Ananthanarayana V.S.
2015 IEEE International Symposium on Multimedia (ISM 2015), (10th Conference in the series) Dec 14 - 16, 2015, Miami, USA
81. "Document Classification with a Weighted Frequency Pattern Tree algorithm"
Froila Dsouza, Ananthanarayana V.S.
IEEE International Conference on Data Mining and Advanced Computing (SAPIENCE) to be held on 16-18 March 2016, Ernakulam, India.
82. "Data Trustworthiness in Wireless Sensor Networks"
Karthik N and Ananthanarayana V.S.
15th IEEE International Conference on Trust, Security and Privacy in Computing and Communications (IEEE TrustCom-16), Tianjin, China on August 23-26, 2016, page 2181 - 2186.
83. "Data Trust Model for Event Detection in Wireless Sensor Networks using Data Correlation Techniques"
Karthik N and Ananthanarayana V.S
4th IEEE International Conference on Signal Processing, Communications and Networking (ICSCN'17), Chennai, March 16 - 18, 2017.
84. "Sensor Data Modeling for Data Trustworthiness"
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The 16th IEEE International Conference On Trust, Security And Privacy In Computing And Communications (IEEE TrustCom-17) Sydney, Australia, August 1 - 4, 2017
85. "A New Multimedia Documents Clustering Approach based on Feature Patterns Similarity"
Pushpalatha K and Ananthanarayana V.S.
19th IEEE International Symposium on Multimedia (ISM 2017), December 11 - 13, 2017.

86. "An Ontology based Trust Framework for Sensor-Driven Pervasive Environment"
Karthik N and Ananthanarayana V.S.
Eleventh Asia International conference on Mathematical Modeling and Computer Simulation, Sabah, Malaysia during December 4-6, 2017.
87. "Multi-Level Per Node Combiner (MLPNC) to Reduce MapReduce Job Latency on Virtualized Environment"
Rathinaraja J, Ananthanarayana V.S.
The 33rd ACM/SIGAPP Symposium On Applied Computing (sac 2018), Pau, France, April 9 - 13, 2018.

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LIST OF PAPERS PUBLISHED IN NATIONAL CONFERENCES (6)

1. "Association Rule Mining : A Survey from Database Perspective",
Ananthanarayana, V.S., National Conference on Recent Trends in DBMS Concept and Practice, 2002. pg 85 – 104.
2. "Pattern Tree Based Mining of Multi-databases for Associations",
Ananthanarayana, V.S.,
National Conference on Distributed Computing, Nitte, March 5 – 6, 2004.
3. "Pattern Mining in Ubiquitous Environment : A Review"
Santhi Thilagam, P., Soumya Hegde, Ananthanarayana, V.S.,
National Conference on Ubiquitous Computing, Nitte, 2006, pg 15 – 17.
4. "An Improvement to the RPC-tree based Clustering Algorithm"
Radhika M Pai, Ananthanarayana V.S
Proceedings of the National Conference on Recent Advancements in Information Technology (NCRAIT 2007), Sri Ramakrishna Engineering College Coimbatore, Feb 9 – 10, 2007.
5. "Knowledge-base Based Character Recognition System for Filled Application Forms"
Ananthanarayana V.S.
KU-NITK Joint Seminar on Recent Advances in Engineering and Technology at Inamori Auditorium, Kagoshima University, November 27 – 28, 2008.
6. "Wave Collision in Fluid"
Vikram Kushwaha, Ananthanarayana V.S., B.R. Shankar,
Proceedings of Indian Conference on Computer Vision, Graphics, Image and Video Processing (ICCVGIVP 2009), Nagpur, 13th – 14th March, 2009.

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1. "Mining for Frequent Valuesets (Itemsets): A Review from the Database Perspective",
Ananthanarayana, V.S., Narasimha Murty, M., Subramanian, D.K.,
Technical Report, IISc-CSA-2000-3, Dept. of Computer Science and Automation, Indian
Institute of Science, Bangalore.
2. "An Efficient Mining of Dominant Entity Based Association Rules in Multi Databases",
Subramanian, D.K., Ananthanarayana, V.S., Narasimha Murty, M.
Technical Report, IISc-CSA-2000-4, Dept. of Computer Science and Automation, Indian
Institute of Science, Bangalore.
3. "Generation of Inter-Database Association Rules Based on Semantic Networks",
Subramanian, D.K., Ananthanarayana, V.S., Narasimha Murty, M.
Technical Report, IISc-CSA-1999-6, Dept. of Computer Science and Automation, Indian
Institute of Science, Bangalore.
4. "DPCP : An Efficient Solution for Fully Replicated UDDI"
V.S. Ananthanarayana, K. Vidyasankar
Technical Report, Dept. of Computer Science, Memorial University of Newfoundland,
CANADA, 2005.

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PROFESSIONAL ACTIVITIES

- Program chair and Member of advisory committee of national conference on Recent Trends in Database Systems - Practice and Concepts, March 2002 at NMAMITM, Nitte.
- Program committee member of national conference on Data Mining (NCDM 2004), Dec 2004, Coimbatore.
- Program committee member of National Symposium On Data and Knowledge Engineering (NSDKE2005), July 2005, at Vallabh, Gujarat.
- Program committee member of national conference on Data Mining (NCDM 2004), Dec 2004, Coimbatore.
- Reviewer for 14th International Conference on Advanced Computing and Communication (ADCOM 2006), Dec 20 -23rd, 2006, Surathkal, (India)
- Advisory committee member of Short term course on Distributed Computing and Software Verification (DISCOVER'07) 23 – 27th July 2007 at NITK Surathkal. And also delivered a lecture on “Distributed Coordination”.
- Advisory committee member of International Conference on Open Source Computing (INCOSC-08), 12 -13th December 2008 at NMAMIT, Nitte.
- MHRD sponsored summer school on “Emerging Technologies in Data Mining and Wireless Sensor Networks” (DW-WSN – 2008) from 21st July 2008 to 25th July 2008
- Organized short term course/ workshop on HP – Networking on 3rd April 2009.
- Chairman of Technical Committee, ISTE Annual Convention, 2009 from Dec 18 – 20, 2009.
- Publication Chair for 5th International Conference on Industrial Information System 2010 (ICIIS 2010), from July 29 – Aug 1st 2010.
- Member of Advisory Committee for National Conference on Recent Trends in Computational Sciences and Engineering (NCRTCS-2011) on 12th February 2011 at Sullia.
- Programme Committee Member for 28th ACM Symposium on Applied Computing – SAC 2013: Track on Cloud Computing, March 18 – 22, 2013, Coimbra, Portugal.
- Organizing Chair for 2nd International Conference on Advanced Computing, Networking and Security (ADCONS) 2013, Dec 15 – 17, 2013.
- Coordinator for the joint project between Dept. Of IT, NITK Surathkal, Dept. of Computer Science & Engg, Penn State University, USA and School of Science and Technology, Bosnia.
- Divisional (Computer Science & Engg) Executive Member of Institute of Engineers (India) [IE(I)] Mangalore Local Chapter.

- Nominated as Departmental Curriculum Committee member of Computer Sc & Engg Department and Information Communication Technology Department of MIT, Manipal, 2015 - 16.
- Curriculum committee member for IIIT-Dharwar, 2015.
- Academic Council member of NMAMIT, Nitte for 2015-16 and 2016-17
- BOS - IT (UG & PG) member of Goa University, Goa, 2015
- BOS in Computer & Information Science member of Srinivas University, Mangalore, 2015

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