Kakatiya Institute of Technology & Science
Warangal-506007

Department of
Computer Science & Engineering
Presents....

roCkSE

A Technical Magazine
March 2012

VOLUME - II

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Kakatiya Institute of Technology & Science

Department of Computer Science & Engineering

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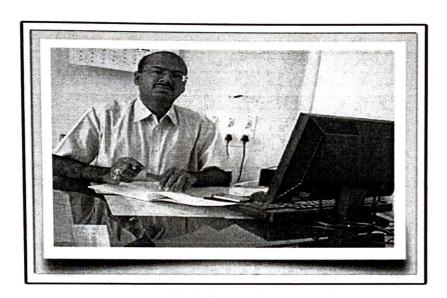- **Department & Staff Information**
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Kakatiya Institute of Technology & Science

(Affiliated to Kakatiya University, Approved by AICTE & Accredited by NBA, New Delhi.)

Opp.Yerragattu Hillock, Bheemaram, Hasanparthy, Warangal – 506015 (A.P)

Dr K.Ashoka Reddy

Message

I Congratulate the Department of Computer Science & Engineering for bringing out roCkSE, a Technical Magazine of the Department. It is a great initiative and I feel that such a Technical Magazine is very well required as it showcases the Strength of the Department faculty in research and inspires the Student Community towards research.

I hope this Magazine will be well received by the Student Community and Faculty.

Dr K.Ashoka Reddy
Principal

Kakatiya Institute of Technology & Science

(Affiliated to Kakatiya University, Approved by AICTE & Accredited by NBA, New Delhi.)

Opp.Yerragattu Hillock, Bheemaram, Hasanparthy, Warangal – 506015 (A.P)

P.Niranjan Reddy
Head, Dept. of CSE

Message

This Magazine Summarizes the Current State of Computer Science & Engineering, latest Technologies and also Information of Department and Faculty Members.

Providing an arena for the Student community to showcase their Technical Talents is a Great Task. We took up the challenge to bring awareness to everyone in laying their career steps towards latest Technologies. Keeping in view of the present era of Technological revolution in the field of Engineering, the Students of CSE Department, KITS Warangal present you roCkSE.

P.Niranjan Reddy
HOD,
Department of CSE

<roCkSE>

Department

&

Staff Information

CSE Department Profile

Department of Computer Science and Engineering

Warangal-15

Mission Statement of the C.S.E Department:

- To make the graduate in Computer Science and Engineering Technologically superior and *ethically strong*

Vision Statement of the C.S.E Department:

- To train the Students in all leading software technologies to make them industry ready.
- To Preapare the student well versed in fundamentals, contemporary issues, analytical skills and Programming skills and to apply these in solving real world problems.
- To equip the students to demonstrate their communcation and managerial skills while working in/with multi disciplinary teams.

Program Educational Objectives of the C.S.E Course:

I.Building on fundamental knowledge, graduates should continue develop technical skills within and across disciples in CSE for producative and successful career maintaining professional ethics.

II.Graduates should develop and exercise their creativity in engineering practice and teamwork with incrasing responsibility and leadership.

III.Graduates should refine their knowledge and skills to attain professional competence through life-long learning such as higher education,advanced degrees and professional activities.

The department of Computer Science and Engineering is established in the year 1994.The Department aims at technical competency and aids in enhancing ethical and moral values among the students. With the Mission to produce top class engineers capable of working in Multinational companies the department motivateenthusiasm among the students to learn and work more. The department is a centre of excellence for budding engineers equipped with strong fundamental concepts in programming and problem solving skills and also inculcates leadership qualities to serve the society. The department is assisting the students in their career placements by setting up campus placements.

With the support of 28 teaching and 14 technical staff the department caters about 600 students. The students are trained in academic excellence and encouraged to undergo various certification training programs to excel in their academic as well as technical competence. The department also arrange various guest lecturers from industry experts on latest technologies on computers.

CSE - TEACHING FACULTY

S.No.	Name of the faculty	Designation
1.	P.Niranjan	Professor& Head
2.	S.NagaRaju	Associate Professor
3.	M.Venugopal Reddy	Associate Professor
4.	V.Shankar	Associate Professor
5.	C.Srinivas	Associate Professor
6.	S.Venkatramulu	Associate Professor
7.	V.Chandra Shekhar Rao	Associate Professor
8.	M.S. B.Pridivi Raj	Assistant Professor
9.	R.Swapna	Assistant Professor
10.	B.Srinivas	Assistant Professor
11.	G.Sridhar	Assistant Professor
12.	M.Preethi	Assistant Professor
13.	K.Vinay Kumar	Assistant Professor
14.	S.Narasimha Reddy	Assistant Professor
15.	B.Hanmanthu	Assistant Professor
16.	B.Raghuram	Assistant Professor
17.	Md.SharfuddinWaseem	Assistant Professor
18.	I.Sai Ram Krishna	Assistant Professor
19.	P.Rajitha	Assistant Professor
20.	B.Raju	Assistant Professor
21.	S.V.Krishna Rao	Assistant Professor
22.	S. Swapna	Assistant Professor
23.	B.Swathi	Assistant Professor
24.	V.Swathy	Assistant Professor

CSE - NON-TEACHING & SUPPORT STAFF

S.No.	Name of the faculty	Designation
1	P.Srinivasa Rao	Programmer
2	B.Suresh	Programmer
3	P.Murali	Operator cum Technician
4	P.Venkatachary	Attender
5	D.Babu	Sweeper
6	V.Jaya Kumar	Programmer
7	T.Kiran Kumar	Programmer
8	A.Devendra Prasad	Programmer
9	D.Srilatha	Programmer
10	Ch.Devender	Programmer
11	Ch.Kiran	Programmer
12	M.Rama Rao	Programmer
13	V.KaliSitaGayatri	Data Entry Operator
14	B.Ananth	Data Entry Operator
15	G.Rama Devi	Operator

Details of FDPs/STTPs/Workshops/Conferences Organized by the Department during 2011-2012:

S/No	Organized FDPs/STTPs/ Workshops/ Conferences	Title of FDPs/STTPs/ Workshops/ Conferences	Coordinators	Duration & Dates	No.of Participants
1.	Workshop	One day workshop on System on chip by Dr.A.S.Ram Kumar Phoenix Technologies & Services	S. Naga Raju, S.V.Krishna Rao	30.01.2012	25
2.	Workshop	3 day Workshop on IBM Rational suite by T.Venu, IBM Bengaluru	S. Naga Raju,	16.11.2011 - 18.11.2011	12
3.	Workshop	3 day Workshop on Cadence tod Mr.SamrakshSreyas And Mr.Srinivasulu Cadence Training Team, Bengaluru	S.NagaRaju, S.V.Krishna Rao=	08.08.2011 - 11.08.2011	20
4.	Workshop	1 Day Workshop on Web Technologies Mr.Sandeep Techayes,Bengaluru	MSB Prudviraj	1.10.2011	120
5.	Workshop	2 Day Workshop on Android Operating System Mr.Girish,Ei System Delhi	S.Venkatramulu	07.03.2012 - 08.03.2012	120

Results of Examination:

Results of B.Tech (C.S.E) for academic Year 2011-12:

S.No	B.Tech Year	No.of Candidates Appeared	No.of Candidates Passed	Pass (%)
1.	I-Year	119	84	70.5
2.	II-Year I-Semester	143	94	65.7
3.	II-Year II-Semester	142	117	82.3
4.	III-Year I-Semester	130	101	77.6
5.	III-Year II-Semester	130	116	89.2
6.	IV-Year I-Semester	137	124	90.5
7.	IV-Year II-Semester	137	133	97.0

MOU Signed with Industries/Other Organizations:

i.   MOU with TCS, Hyderabad for permanent academic accreditation.
ii.   MOU with Infosys, Hyderabad to conduct Campus Connect Program.
iii.   MOU with IBM Bengaluru, to train students on Rational rose &DB2 Certifications
iv.   MOU with Oracle University to train students for workforce development program
v.   MOU with Sybermotion Technologies to develop software tools with mutual Consultancy.

Significant events of the year, if any:

i.   Infosys, Hyderabad recognized the Department as Centre of Excellency for campus connect program on 12th Oct 2012.
ii.   Permanent accreditation recognition from TCS, Hyderabad.
iii.   Conducted a National Level Technological Symposium "Technoplexus 12"

Details of Publications:

P.Niranjan Reddy

International Journals:

1. P. Niranjan, C. V. Guru Rao , "A Mock-up Tool for Software Component Reuse Repository" International Journal of Software Engineering & Applications (IJSEA), Vol. 1, No.2, Page No: 1-12, ISSN: 09762221, EISSN: 09759018, April, 2010.

2. P. Niranjan, J.Gyani,"Design Patterns: A Resource for Reverse Engineering", International Journal of Computer Science and Engineering, ISSN: 1742-7185, Vol. 02, No. 03,Page No: 826-830, India, 2010.

3. P. Niranjan, K.PradeepKumar "An Efficient Software Engineering Tool for Knowledge Sharing", International Journal of Computer science Issues, ISSN: 1694-0814, Volume 7, Issue 4, page NO: 19-27, July 2010.

4. P. Niranjan, K.Praveen Kumar, M.Preethi, "Optimizing the Application-Layer DDoS Attacks for Networks", International Journal of Computer Science and Information Security, ISSN: 1947-5500, DOI: IJCSIS- 31051070, pp:195-200, Pittsburgh, USA, june,2010.

5. P. Niranjan, Y.Bhavani, "Efficient IP-trace back through packet marking algorithm", International Journal of Network Security & Its Applications, ISSN: 0975-2307 , DOI : 10.5121/ijnsa.2010.2309, Page NO: 132-142, India, 2010.

6. C. V. Guru Rao, P. Niranjan, "A Multilevel Representation of Repository for Software Reuse", International Journal of Computer Science and Information Security, ISSN: 19475500, 2011, Volume: 9, Issue: 9, Pages 114-119.

7. P. Niranjan, C. V. Guru Rao, "A Model Software Reuse Repository with An Intelligent Classification and Retrieval Technique", International Journal of Computer Science and Engineering, Scientific & Academic Publishing, SAP- 108100002, ISSN:2163-1484, DOI: 10.5923/J.Computer.20110101.03, pages:15-21, 2011.

8. P.Niranjan, JayadevGyani, P.Shireesha, "Reusable Web Design Patterns for Online Derivatives Trading", International Journal of Computer Engineering and Technology, volume: 2, Issue: 2, ISSN: 0976-6367, pages: 25-33, 2011.

Conference Proceedings:

1. B.Hanmanthu, B.Raghuram and P.Niranjan "Third Party Privacy PreservingProtocol for Perturbation Based Classification of Vertically Fragmented Databases" International Conference on Emerging Trends in Electrical, Communication and Information Technologies (ICECIT - 2012). 21st -23rd , December 2012, Anantapur - 515 701, Andhra Pradesh, India, PP.109-113.

2. P.Niranjan, and C.V.GuruRao "Dynamic Ranking of software with an Integrated Classification Scheme", IEEE Proceedings on International Conference on Advanced Research in Engineering & Technology, ICARET-2013, Feb-2013, Vijayawada, PP. 241-245.

3. C.V.Guru Rao, P.Niranjan , "Effective Retrieval of Software Reusable Components Using Grading Algorithm", International Multi Conference on Automation, Computing, Control, Communication and Compressed Sensing (IEEE-IMAC4S) ,Kerala, India , pp 7-13, March 2013, DoI: 978-1-4673-5090-7/13.

B. Gourinath:

1. Gourinath Banda and John P. Gallagher, "Constraint-Based Abstract Semantics for Temporal Logic: A Direct Approach to Design and Implementation", In Edmund Clarke and Andrei Voronkov, chairs, 16th International Conference on Logic for Programming, Artificial Intelligence, and Reasoning, Dakar, Senegal April 26-30, 2010, Proceedings.

Mr. S. Naga Raju

International Journals

1. S.NagaRaju, "Parallel Genetic Algorithms", International Journal of Computer Science & Information Technology, ISSN:0975-4660, Vol. 8 No. 4, July 2010.
2. V.Swathy, S.Nagaraju et al. "A resolved IP trace-back through probabilistic packet marking algorithm", International Journal of Computer Science and Telecommunications, ISSN: 2047-3338,vol: 2 Issue 7, October 2011.
3. S. Nagaraju, "Web Personalization using Efficient Ontology Relations", International Journal of Computer & Electronics Research (*IJCER*), Manual script ID: 24213, ISSN: 2250 – 3005,Vol.2, 2012.

4. S.Nagaraju, "Ontology based ranking approach for web documents", Global journal of computational intelligence research, Vol.2,No:1, ISSN:22490000, 2012.

International Conferences

1. S.Nagaraju, "Rule Based Semantic Services", NCIIT 2010, PSG Coimbatore, 2010.

Mr. M.Venugopal Reddy
International Journals

1. M.Kumaraswamy, P.Krishna Reddy, R.UdayKiran, M.Venugopal Reddy, "Temporality based user Interface design approaches for desktop and small screen environment", International Journal of Computer Science and Engineering (IJCSE), 2011.

International Conferences

1. M.Kumaraswamy, P.Krishna Reddy, R.UdayKiran, M.Venugopal Reddy,, "Interface Tailoring by Exploiting Temporality of Attributes for Small Screens" International conference on Databases in Networked Information Systems (DNIS) at University of Aizu, Japan, 2010, published in the proceedings in the Springer in the Lecture Notes in Computer

Science (LNCS) series, DNIS Vol. LNCS 5999 pp. 284–295, March 29-31, 2010.

2. "Interface Tailoring by Exploiting Temporality of Attributes for Small Screens", International conference on Databases in Networked Information Systems (DNIS) at University of Aizu, Japan, 2010.

National Conferences

1. M.Venugopal Reddy, "Security optimization in online voting using SHA1 and 3DES algorithms", national conference on Wireless Technological for urban security, 9-10 April 2010.

Mr.V.Shankar
International Journals:

1. V.Shankar, V. Santhosh Kumar, "Fast IP routing using multiple reuting configurations", International Journal on Computer Science and Technology (IJCST), Vol.3, Issue-3, ISSN: 0976-8491, 45-58, 2012.

2. V.Shankar, M. Sowmya, "Concise query processing in uncertain databases", International journal of computer applications (IJCA), Vol.54, No:6, ISSN: 0975-8887, 2012.

3. V.Shankar, VarshaVishwanath, "Game based analysis of DDOS attacks prevention using puzzle based defence strategy", International journal of computer trends and technology (IJCTT), Vol.34, Issue.4, 2012.

International Conferences:

1. V.Shankar, "Efficient computation of Iceberg cubes based on user constraints" International Conference on Computational Systems & Communication Technology (CSCT-2010) Vol. No.1, published in e-proceedings, May 5-6, 2010.

National Conferences

1. V.Shankar, "Efficients Computation of Icebyrg cubes based on user constraints using top-down and bottom-up approach" NCACT-2010, at Bharat Institute of Engineering and Technology, Hyderabad, on March 26-27.

2. V.Shankar, "Hierarchical Online Mining for Asscociation Rules using Neural Networks" organized by Stanley College of Engineering and Technology for Women, Hyderabad during 13th - 14th February, 2010.

Mr. C. Srinivas
International Journals

1. C.Srinivas, C.V.Guru Rao, "Software Reusable Components with Repository System" International Journal of Advanced Computing, Vol. 2, Issue4, ISSN:0975-7686, Page No: 166-170,October, 2010.
2. C.Srinivas, A. Mounika , "Enabling Dynamic Data In Cloud Storage", International journal of Scientific Research, Vol.1, Issue.5, ISSN: 2277-8179, 25 – 27,2012.
3. C.Srinivas , "High performance pattern search algorithm using sliding windows", International journal of computer engineering and technology (IJCTT), Vol.3 Issue.2,ISSN: 0976 – 6275, 543 – 552, 2012.

National Conferences

1. C.Srinivas, "An efficient minimum spanning tree based clustering algorithm using various threshold values", National Conference held at Pulankurichi, proceedings of the ETCSA, 20th March, 2010.
2. C.Srinivas, "Frequent patterns mining using prime number characteristics", National Conference held at Pulankurichi, proceedings of the ETCSA, 20th March, 2010.
3. C.Srinivas, "Software reusable components with repository system", National Conference held at Pulankurichi, proceedings of the ETCSA, 20th March, 2010.

Mr. S. Venkatramulu
International Journals

1. S.Venkatramulu, S.Veena, "Secure Communication using two party authenticated quantum key distribution protocols", International Journal of Computer Science and Network Security, ISSN : 1738-7906, Vol. 10, No. 8, pp. 233-238, August, 2010.
2. S.Venkatramulu , S. Vishnuvardan , "Augmented Analysis for Network Attack Discovery", International Journal of Scientific and Research Publications, Vol 2, Issue 9, October 2012, ISSN 2250-3153, 1-4.

Dr.D.SureshBabu
International Journals

1. Suresh Babu et al, "Fusion of Web Structure Mining and Web Usage Mining", International Journal of Computer Science and Information Technologies(IJCSIT), Vol. 2 (3) , 2011, 965-967.
2. Suresh Babu et al, "Data Mining in the Factual World: Issues, Challenges and Recommendations", Advances in Computational Sciences and Technology (ACST) Volume 4, Number 3 2011 , PP.279-290, Print ISSN 0973-6107.

3. D. Suresh Babu et al, "Web Usage Mining: A Research Concept of Web Mining", International Journal of Computer Science and Information Technologies(IJCSIT), Vol. 2 (5) , 2011, 2390-2393, ISSN:0975-9646.

4. D. Suresh Babu et al, " Web Data Mining and its Application in Electronic Commerce" International Journal of Engineering Studies, Volume 3, Number 2 (2011), PP.125-131.

5. D. Suresh Babu et al, "Data Mining and its applications", Library Progress – International Journal of Library, Computer Science and Information Technology, volume 29(No.2), 2011, pages 20-25, ISSN 0970-1052.

6. D. Suresh Babu et al, "Web Usage Mining and Pattern Extraction: A Survey", Library Progress – International Journal of Library, Computer Science and Information Technology, volume 29(No.3), pages 20-25, ISSN 0970-1052.

7. D. SureshBabu, B.Srinivas, B.Raju, G. Sridhar, "Web Mining: A basic key to Enrich the Business on Web", Global Journal of Computational Intelligence Research, ISSN 2249-0000 Volume 2, Number 1 (2012).

8. D.SureshBabu, "AnAccomplishment of Web Personalization using Web Mining Techniques", International Journal of Computer Science & Information Technology, ISSN-0975-9646, Vol. 2 (6), 2011.

9. "Online Miner: A Tool for Discovering Business Intelligence from Web data", Library Progress –International journal of Library, Computer Science & Informational Technology, Vol 29 (No.1) ISSN 0970-1052, 2011.

International Conferences:

1. "Online miner: a tool for personalization", international Conference on Systematic, Cybernetics &Informatics(ICSCI) 2012 held at Pentagon research private Ltd, Hyderabad, 2012.

2. "Writer reorganization using edge based directional features", international Conference on Systematic, Cybernetics &Informatics(ICSCI) 2010 held at Pentagon research private Ltd, Hyderabad, 2010.

Mr. M.S.B.Prudhviraj
International Journal

1. M.S.B.Pridviraju "Exploiting Dynamic Resource allocation for query Processing in the cloud computing" IJCSIT volume.3 September-October 2012, 5206-5209.

2. M.S.B Prudhviraj, "Reducing malicious packet losses using equal cost multipath routing", CEE, 2010.

International Conference

1. M.S.B Prudhviraj, "Peer to Peer data mining for the purpose of information diselimination and file sharing", ICDM-2010,IEEE Conference in data mining, Sydney, Australia, 14-17 Dec

2010.

2. Phridviraj M.S.B. "Hardware Enhanced Association Rule Mining with Hashing and Pipelining", 10th IEEE International conference on Data mining (ICDM'10) from December 13-17, 2010.

Mrs. R. Swapna
International Journals

1. S. Swapna, R. Swapna, "Datamining techniques for intrusion detection" Global Journal of computer application and technology, Vol. 2 (3), 2012, ISSN: 2249-1945, page No. 1125-1130.

2. R. Swapna , CH. Vidyasagar, B. Raju, " Comparison of Pattern Matching Techniques for Host Based Intrusion Detection System", International Journal of Scientific and Research Publications, Vol2, Issue 10,October 2012, ISSN 2250-3153, 1-3.

Mr. B. Srinivas
International Journals:

1. International Journal Of Computer Science and Telecommunications, Volume 3, Issue 1, January 2012, ISSN 2047-3338, "Network Intrusion Detection System Using KMP Pattern Matching Algorithm".

2. D. SureshBabu, B.Srinivas, B.Raju, G. Sridhar, "Web Mining: A basic key to Enrich the Business on Web", Global Journal of Computational Intelligence Research, ISSN 2249-0000 Volume 2, Number 1 (2012).

Mr. G. Sridhar
International Journals:

1. D. SureshBabu, B.Srinivas, B.Raju, G. Sridhar, "Web Mining: A basic key to Enrich the Business on Web", Global Journal of Computational Intelligence Research, ISSN 2249-0000 Volume 2, Number 1 (2012).

Mrs. M.Preethi
International Journals

1. P. Niranjan, M.Preethi, "Optimizing the Application-Layer DDoS Attacks for Networks", International Journal of Computer Science and Information Security, ISSN: 1947-5500, **DOI:** IJCSIS- 31051070, pp:195-200, Pittsburgh, USA, june,2010.

2. M.Preethi ,A.Narahari, "CEBKST: The Cost efficient based on keying and secure data transmission for wireless sensor network", International Journal of Computer Science and Information Technology, Vol.3(5), 2012 ISSN: 0975 – 9646, 5285 – 5290.

3. M.Preethi, "A novel strategy variance based intrusion detection and log management in cloud computing",*International Journal of Electrical, Electronics and Computer Systems (IJEECS)* , Vol.9, 2012, Issue-2, 23-33.

4. V. Swathy, P. Niranjan Reddy and M. Preethi,"A Resolved Retrieval Technique For Software Components", International Journal of Advanced Research in Computer Engineering & Technology, ISSN: 2278 – 1323, Volume 1, Issue 4, June 2012.

Mr. K. Vinay Kumar
International Journals:

1. K. Vinay Kumar, N. Sandeep Kumar, "Privacy protection for dynamic data through anonymization", International Journal of Scientific and Research Publication, Vol.2, Issue.9, ISSN: 2250-3153, 1-4,2012.

Mr. S. Narasimha Reddy
National Journals:

1. S. Narasimha Reddy, "An effective approach to regression test optimization technique", Indian Journal of Computer Science and Engineering, ISSN: 0976-5166, DOI: INDJCSE11-02-05-096, pp: 687-690, IJCSE, India, October-November, 2011.

Mr. B. Hanumanthu
International Journals:

1. B Hanmanthu ,ShebaKunche ,et al Article: "Infallible and upgradable Geo-environment based Multicasting protocol in MANETs". Published by International Journal of Computer Trends and Technology - volume3 Issue 4 - 2012, Page:576.

International Conferences:

1. B Hanmanthu et al " Fuzzy Associative Classifier for Distributed Mining", IJCA Proceedings on International Conference and workshop on Emerging Trends in Technology (ICWET 2012) icwet(9):1-5, March 2012, Mumbai.

Mr. B. Raghuram
International Conferences:

1. B RaghuRam, JayadevGyani and B Hanmanthu. Article: Fuzzy Associative Classifier for Distributed Mining. IJCA Proceedings on International Conference and workshop on Emerging Trends in Technology (ICWET 2012) icwet(9):1-5, March 2012.
2. B RaghuRam, "Privacy preserving associative classification on vertically partitioned databases", IEEE conference, ICACCT, August 2012.

Mr. B. Raju

International Journals:

1. CH. Vidyasagar, R. Swapna, B. Raju, " Comparison of Pattern Matching Techniques for Host Based Intrusion Detection System", International Journal of Scientific and Research Publications,Vol 2, Issue 10, October 2012, ISSN 2250-3153, 1-3.

2. B.Raju, B.Srinivas, International Journal Of Computer Science and Telecommunications, Volume 3, Issue 1, January 2012, ISSN 2047-3338, "Network Intrusion Detection System Using KMP Pattern Matching Algorithm".

3. D. SureshBabu, B.Srinivas, B.Raju, G. Sridhar, "Web Mining: A basic key to Enrich the Business on Web", Global Journal of Computational Intelligence Research, ISSN 2249-0000 Volume 2, Number 1 (2012).

Mr. S. V. Krishna Rao

International Conferences:

1. S. V. Krishna Rao "Parallel multiplier – Accumulator based on radix-2 modified booth algorithm using spurious power suppression technique ", International conference on electrical and electronics engineering, 12th Aug 2012.

2. S. V. Krishna Rao, "A fast wallace multiplier using parallel prefix adder with reduced complexity", International conference on electronics and communication engineering (ICECE), 16th Sep 2011.

3. S. V. Krishna Rao, "FPGA Implementation of FIR Filters", International Conference on VLSI & Embedded Systems, Gurunanak Engineering College, June, 2010.

Mrs. S. Swapna

International Journals:

1. S. Swapna, "Data as a service (DAAS) in the age of data", Global Journal of computer science and technology, Vol.XII, Issue.XI, Version.1, 34-39,2012

2. S. Swapna, R. Swapna, "Datamining techniques for intrusion detection" Global Journal of computer application and technology, Vol. 2 (3), 2012, ISSN: 2249-1945, page No. 1125-1130.

Mrs. V. Swathy

International Journals:

1. V.Swathy, S.Nagaraju et al. "A resolved IP trace-back through probabilistic packet marking algorithm", International Journal of Computer Science and Telecommunications, ISSN: 2047-3338,vol: 2 Issue 7, October 2011.
2. V. Swathy, P. Niranjan Reddy and M. Preethi,"A Resolved Retrieval Technique For Software Components", International Journal of Advanced Research in Computer Engineering & Technology, ISSN: 2278 – 1323, Volume 1, Issue 4, June 2012.

Articles

&

Latest Technologies

Not Only SQL

Relational database management systems (RDMBSs) today are the predominant technology for storing structured data in web and business applications.

As interactive applications have changed dramatically over the last 15 years, large web companies emerged with dramatic increases in scale on many dimensions:

- The number of concurrent users skyrocketed as applications increasingly became accessible via the web (and later on mobile devices).

- The amount of data collected and processed soared as it became easier and increasingly valuable to capture all kinds of data.

- The amount of unstructured or semi-structured data exploded and its use became integral to the value and richness of applications.

SQL have been widely adopted and are often thought of as the only alternative for data storage accessible by multiple clients in a consistent way.

Closer look at why developers are considering NoSQL databases:

Big Users, Big Data, and Cloud Computing are changing the way many applications are being developed. The industry has been dominated by relational databases for 40 years, but application developers are increasingly turning to NoSQL databases to meet new challenges for three main reasons:

1. Better application development productivity through a more flexible data model;

2. Greater ability to scale dynamically to support more users and data;

3. Improved performance to satisfy expectations of users wanting highly responsive applications and to allow more complex processing of data.

Developers generally use object-oriented programming languages to build applications. It's usually most efficient to work with data that's in the form of an object with a complex structure consisting of nested data, lists, arrays, etc. The relational data model provides a very limited data structure that doesn't map well to the object model..

Relational technology requires strict definition of a schema prior to storing any data into a database. Changing the schema once data is inserted is a big deal. Prior to NoSQL databases, the default scaling approach at the database tier was to scale up. This was dictated by the fundamentally centralized, shared-everything architecture of relational database technology. To support more concurrent users and/or store more data, you need a bigger and bigger server with more CPUs, more memory, and more disk storage to keep all the tables. Big servers tend to be highly complex, proprietary, and disproportionately expensive.

ADVANTAGES

- Cheap, easy to implement (open source)

- Data are replicated to multiple nodes (therefore identical and fault-tolerant) and can be partitioned

    - Down nodes easily replaced

    - No single point of failure

- Easy to distribute

- Don't require a schema

- Can scale up and down

- Relax the data consistency requirement (CAP)

"Not every problem is a nail and not every solution is a hammer"