

Prof. Anil K. Sarje

Brief Bio-data:

Dr Anil K. Sarje received his engineering degrees *B.E., and M.E.* from *Indian Institute of Science, Bangalore* in 1970, and 1972 respectively, after graduating in Science from Vikram University, Ujjain, in 1967. In 1972 he joined as a Ph.D. research scholar the School of Automation, *Indian Institute of Science, Bangalore*. His Ph.D. work was on “Studies on the structural, assumability and realization aspects of threshold functions” under the supervision of (Late) Prof. Nripendra N. Biswas. The work was submitted in June 1975 and the Ph.D. degree was awarded in 1976.

He served as Lecturer at Birla Institute of Technology & Science, Pilani, for a short period before joining erstwhile University of Roorkee (now Indian Institute of Technology Roorkee) as Reader in the Department of Electronics & Computer Engineering in 1981. He became Professor of Computer Engineering in 1987.

Dr. Sarje has supervised many Ph.D. theses and a large number of M.Tech. dissertations. He has published a large number of research papers in international as well as national journals and conferences. He has also served as referee for many reputed journals like IEE Proceedings, IEEE Trans on Reliability, Electronics Letters, etc. He has been a senior member of the Institute of Electrical and Electronics Engineers (IEEE).

He was the Head of the Department of Electronics & Computer Engineering, IIT Roorkee during the period 2003-2005. During this tenure as Head he was able to secure grants from Intel for the installation of two nodes for the PlanetLab project. The PlanetLab is a world-wide experimental platform for experimentation and development of distributed applications. Subsequently, however, these nodes became disused because of the lack of later efforts for the lab’s maintenance.

He was also responsible for setting up the HPC laboratory in the department with procurement and installation of a 20-node SUN cluster.

Dr. Sarje has been on many committees of UOR/IIT Roorkee:

- As member of the Roorkee Entrance Examination Committee REE-91, responsible for conducting the prestigious all India examination for admission to University of Roorkee.
- As the Chairman, Information Superhighway Center (ISC) Advisory Committee
- As Chairman, Committee for strengthening of teaching learning environment during the period 2006-07.
- As Chairman, Special Purchase Committee (SPC) on Office Automation during the period 1st Jan. 2008 - 31st Dec. 2012.

He has been on a number of AICTE and DOEACC committees. He was a member of DOEACC A, B & C Level Syllabus Committee as AICTE Representative (1995-96). He served as a member of All India Board of Information Technology Education (AICTE) during years 2000-2003.

He has also served as mentor in the TEQIP programme as well as in the AICTE's NEQIP programme.

Areas of research interest: Network Security, Computer Networks, Distributed Systems.

PUBLICATIONS

Books / Chapters, etc.

1. Udai Shanker, Manoj Misra and Anil K. Sarje, "SWIFT-A Distributed Real Time Commit Protocol", *Chapter LXXVIII: Handbook of Research on Innovations in Database Technologies and Applications: Current and Future Trends* (volume 2), Feb 2009, pp 737-743, Editors: Viviana E. Ferraggine, Jorge H. Doorn, Laura C. Rivero Institute of Advanced Informatics Technology Research (INTIA), Universidad Nacional del Centro de la Pcia. de Buenos Aires, Argentina, Information Science Reference Publisher, ISBN: 978-1-60566-242-8.
<http://www.igi-global.com/reference/details.asp?ID=33444&v=preface>
2. Udai Shanker, Manoj Misra and Anil K. Sarje, "MECP-A Memory Efficient Real Time Commit Protocol", *Chapter LXXIX: Handbook of Research on Innovations in Database Technologies and Applications: Current and Future Trends* (volume 2), Feb 2009, pp 744-752, Editors: Viviana E. Ferraggine, Jorge H. Doorn, Laura C. Rivero Institute of Advanced Informatics Technology Research (INTIA), Universidad Nacional del Centro de la Pcia. de Buenos Aires, Argentina, Information Science Reference Publisher, ISBN: 978-1-60566-242-8.
<http://www.igi-global.com/reference/details.asp?ID=33444&v=preface>
3. Sandeep K. Sood, Anil K. Sarje and Kuldip Singh, "Secure Dynamic Identity-Based Remote User Authentication Scheme", Springer-Verlag, LNCS, vol. 5966, 2010, pp. 224-235.
4. Ram Saran, Anil K. Sarje and Hari B. Srivastava "Long Range Target Detection - Algorithms and Implementation" Lambert Academic Publishing, 2012.
5. Navdeep Kaur, Rajvinder Singh, Manoj Misra and Anil K. Sarje, "Secure Transaction Management Protocols for MLS/DDBMS", ch. 17, vol. LNCS 4812, [Information Systems Security](#), [Lecture Notes in Computer Science](#) (Springer), pp 219-233.

List of Research Publications

A. Journal Publications:

1. Anil K. Sarje and N.N. Biswas, "An algorithm for testing 2-asummability of Boolean functions" IEEE Trans. Comput., vol. C- 26, No.10, Oct. 1977, pp 1049-1053.
2. Anil K. Sarje and N.N. Biswas, "A new approach to 2-asummability testing" IEEE Trans. Comput. vol. C-28, No.10, Oct. 1979, pp 798- 801.
3. Anil K. Sarje, "Asummability testing", Electronics Letters, vol.18, No.22, 28 Oct. 1982, pp 938-940.
4. Anil K. Sarje and N.N. Biswas, "Testing threshold functions using implied minterm structure", Int. J. Systems Science, vol.14, No.5, May 1983, pp 497-512.
5. Anil K. Sarje, "Canonical extremal vertices of a switching function and its dual", Electronics Letters, vol.19, No.6, 4th August 1983, pp 603-604.
6. Anil K. Sarje and N.N. Biswas, "Heuristics for realization of linearly separable switching functions", Journal of the Institution of Engineers, vol.64, pt ET-2, Nov. 1983, pp 25-27
7. Anil K. Sarje, "Implication chart for testing threshold functions", J. Institution of Engineers, vol.65, Pt ET-2, Nov.1984, pp. 46-47.
8. Anil K. Sarje, "Testing 2-asummability using a property of canonical extremal vertices", Int. Journal of Systems Science, vol.16, No.10, Oct. 1985, pp 1229-1238.
9. Anil K. Sarje, "Minimization of multiple-output switching circuits", Int. Journal of Electronics, vol.60, No. 5, May 1986, pp. 617-623.
10. S. Rai, Anil K. Sarje, Arun Kumar and E.V. Prasad, "Two recursive algorithms for computing the reliability of k-out-of-n systems", IEEE Trans. Reliability, vol. R-36, No. 2, June 1987, pp. 261-265.
11. Anil K. Sarje, "Realization of threshold functions by generation of canonical weight vectors with a given sum", Int. Journal of Systems Science, vol. 18, No. 8, Aug. 1987, pp. 1555-1561.

12. Anil K. Sarje and E.V. Prasad, "An efficient non-recursive algorithm for computing the reliability of k-out-of-n systems", IEEE Trans. Reliability, vol. 38, No. 2, June 1989, pp. 234-235.
13. E.V. Prasad and Anil K. Sarje, "Reliability modeling and analysis of multiprocessor systems", Microelectronics and Reliability, vol. 29, No. 4, 1989, pp. 533-536.
14. G. Sagar, Anil K. Sarje and K.U. Ahmad, "Task allocation techniques for distributed computing systems: A review", Journal of Microcomputer Application, vol. 12, 1989, pp. 97-105.
15. G. Sagar, Anil K. Sarje and K.U. Ahmad, "On module assignment in two-processor distributed systems: A modified algorithm", Information Processing Letters, 32(1989), 24 Aug. 1989, pp. 151-153.
16. E.V. Prasad and Anil K. Sarje, "Enumeration of multiprocessing events and reliability computation of a multiprocessor system", Microelectronics and Reliability, vol. 30, No. 4, 1990, pp. 691-695.
17. G. Sagar and Anil K. Sarje, "A task allocation model for distributed systems" International Journal of Systems Science, vol. 22, No. 9, Sept 1991, pp. 1671-1678.
18. Anil K. Sarje and G. Sagar, "Heuristic model for task allocation in distributed computer systems", IEE Proceedings-E, vol. 138, No. 5, Sept. 1991, pp. 313-318.
19. E.V. Prasad and Anil K. Sarje, "Performance evaluation of multi-processor system modelled as t-out-of-s system", Int. Journal of High Speed Computing, vol. 5, No. 1, 1993, pp. 71-87.
20. Anil K. Sarje, "On the reliability computation of a k-out-of-n system", Microelectronics and Reliability, vol. 33, No. 2, 1993, pp. 267-269.
21. G. Sagar and Anil K. Sarje, "Simulation study of a dynamic job scheduling policy for heterogeneous multicomputer systems", IASTED International Journal of Modelling and Simulation, vol. 13, No. 2, 1993, pp. 57-61.
22. E.V. Prasad and Anil K. Sarje, "Bandwidth availability of multi-processor systems", Microelectronics and Reliability, vol. 34, No. 5, 1994, pp. 939-942.

23. S. Ahuja and Anil K. Sarje, "Processor allocation in extended hypercube multiprocessor", International Journal of High Speed Computing, vol. 7, No.4, Dec. 1995, pp. 481-488.
24. H.T. Desai and Anil K. Sarje, "An algorithm for assignment of chain-structured programs with lower worst case bound", Computer Science and Informatics, vol.26, No.1, March 1996, pp. 51-53.
25. Faiz Baothman, Anil K. Sarje and R.C. Joshi, "The effect of system resources availability on the performance of real-time optimistic concurrency control", Computer Science and Informatics (journal of the Computer Society of India), vol. 27, No. 2, June 1997, pp. 31-39.
26. Faiz Baothman, Anil K. Sarje and R.C. Joshi, "Concurrency control for real-time database systems", accepted for publication in the journal of the Institution of Engineers (India).
27. V.B. Bajaj and Anil K. Sarje, "A comparative study of two self healing protocols for ATM networks", International J. of High Speed Computing, vol. 10, No. 3, 1999, pp. 235-255.
28. Sunil M. Gandhewar and Anil K. Sarje, "A scheme to improve ciphertext in Taher ElGamal cryptosystem", Computer Science and Informatics (Journal of the Computer Society of India), vol. 32, No. 2, June 2002, pp. 1-4.
29. Udai Shanker, M. Misra and Anil K. Sarje, "Priority assignment Heuristic and Issue of Fairness to cohorts executing in parallel", WSEAS Trans. on Computers, vol. 4, no. 7, July 2005, pp 758-768.
30. Udai Shanker, M. Misra and Anil K. Sarje, "The MEWS Distributed Real Time Commit Protocol", WSEAS Trans. on Computers, vol. 4, no. 7, July 2005, pp 777-786.
31. Suneet Grover, Ankush Mittal, Sumit Gupta and Anil K. Sarje, "A Unified Approach for Digital Image Inpainting Using Bounded Search Space", ICGST International Journal on Graphics, Vision and Image Processing, GVIP, vol. 5, no. 6, 2005, pp. 17-24.
32. Udai Shanker, M. Misra and Anil K. Sarje, "A Fast Distributed Real Time Commit Protocol", CSI Journal Computer Science and Informatics, vol. 35, no. 4, Oct.-Dec. 2005, pp 15-22.
33. Ajey Kumar, Manoj Misra and A K. Sarje, "A new Metric for Geometric Model Based Cache Invalidation of Location Dependent Data in Mobile

- Environment", Journal of Computer Science (Special issue on Efficient Heuristics for Information Organization), 2005, pp 34-40.
34. Udai Shanker, M. Misra and Anil K. Sarje, "[SWIFT—A new real time commit protocol](#)", Distributed and Parallel Databases (Springer Netherlands), vol. 20, no. 1, July, 2006, pp. 29-56 (Online Date, Wednesday, May 31, 2006), ISSN, 0926-8782 (Print) 1573-7578 ([Online](#)).
 35. Rajwinder Singh, Navdeep Kaur and Anil K. Sarje, "A New Approach Based on Mobile Agents to Network Monitoring", PCTE Journal of Computer Sciences, vol. 3, no. 1, Jan-Jun 2007, pp 1-7.
 36. Rakesh Kumar, Manoj Misra, and Anil K. Sarje, "A Review of Quality of Service (QoS) Route Provisioning in Mobile Ad Hoc Networks," Journal of Digital Information Management (ISSN 0972-7272), Vol. 5, Issue 1, February 2007, pp. 32-47, available on line <http://www.dirf.org/jdim/v5i1.asp>
 37. Rakesh Kumar, Manoj Misra, Anil K. Sarje, "A Simulation Analysis of Gateway Discovery for Internet Access in Mobile Ad Hoc Networks," International Journal of Information Processing (ISSN 0973-8215) Vol. 2, Number 2, pp. 52-64, 2008.
 38. Ajey Kumar, Manoj Misra and A K. Sarje, " A Predicted Region based Cache Replacement Policy for Location Dependent Data in Mobile Environment", Intl. J of Communications, Network and System Sciences (IJCNS), vol. 1, no. 1, Feb 2008, pp 79-94.
 39. Udai Shanker, M. Misra and Anil K. Sarje, "[Distributed Real Time Database Systems: Background and Literature Review](#)", International Journal of Distributed and Parallel Databases, Springer Verlag, vol. 23, no 2, April 2008, pp 127-149.
 40. Udai Shanker, M. Misra and Anil K. Sarje, "SWIFT-A Static Two Phase Locking with Higher Priority Based, Write-Update Type, Ideal for Fast & Timeliness Commit Protocol" accepted for publication in the second edition of the "**Encyclopedia of Database Technologies and Applications** "
 41. Ajey Kumar, Anil K. Sarje and Manoj Misra, "Prioritized Predicted Region based Cache Replacement Policy for Location Dependent Data in Mobile Environment.", International Journal of Ad Hoc and Ubiquitous Computing (IAHUC), Inderscience Publishers, vol. 5, no. 1, pp 56-67.

42. Navdeep Kaur, R. Sigh, M. Misra and Anil K. Sarje, "Concurrency control for Multilevel Secure database", International Journal of Network Security, Science Publications, Taiwan, vol. 9, no. 1, 2009, pp. 70-81.
43. Navdeep Kaur, M. Misra and Anil K. Sarje "Secure Transaction Processing in MLS/DDBMS", International Journal on Information Processing, vol.2, no. 3, 2008 (I K International Publications, New Delhi, India), pp. 63-76.
44. Sandeep K. Sood, Anil K. Sarje and Kuldip Singh, "An Improvement of Liou et al.'s Authentication Scheme using Smart Cards", Intl. J. of Computer Applications, vol. 1, no. 8, 2010, pp 16-23. (DOI: ISBN: 978-93-80746-07-4)
45. Sandeep K. Sood, Anil K. Sarje and Kuldip Singh, "Secure Dynamic Identity based Authentication Scheme Using Smart Cards", Information Security Journal: A Global Perspective (Taylor & Francis), vol. 20, no. 2, 2011, pp 67-77.
46. S. Grover, A. Mittal, S. Gupta. A. K. Sarje, N. Kaushik, "A robust framework for automated digital video inpainting", International Journal of Signal and Imaging Systems Engineering, Inderscience, UK, Vol. 1, No.3/4, 2009, pp. 185-196.
47. Rakesh Kumar, Anil K. Sarje, Manoj Misra, "Review Strategies and Analysis of Mobile Ad Hoc Network-Internet Integration Solutions," International Journal of Computer Science Issues (IJCSI), ISSN (online): 1694-0784, ISSN (print): 1694-0814, Vol. 7, Issue 4, July 2010, pp. 18-28.
48. Rakesh Kumar, Manoj Misra and Anil K. Sarje, "A Simplified Analytical Model for End-To-End Delay Analysis in MANET," International Journal of Computer Applications (IJCA) special issue on Recent Advances in "Mobile Ad-hoc Networks" MANETs 2010, (online) DOI: 10.5120/1033-81, No. 4, 2010, pp. 195-199. URL: <http://www.ijcaonline.org/specialissues/manets/number4/1033-81>
49. Rakesh Kumar, Manoj Misra and Anil K. Sarje, "A Proactive Load –Aware Gateway Discovery in Ad Hoc networks for Internet Connectivity," International Journal of Computer Networks and Communications (IJCNC), ISSN 0974-9322 (online), ISSN 0975-2293 (Print), vol. 2, No. 5, Sept. 2010, pp. 120-139.
50. Rakesh Kumar, Anil K. Sarje, Manoj Misra, "An AODV Based QoS Routing Protocol for Delay Sensitive Applications in Mobile Ad Hoc Networks," Journal of Digital Information Management (JDIM), vol. 8, Issue 5, Oct. 2010, pp. 304-315, available online:

<http://www.dirf.org/jdim/v8i5.asp> Digital Information research Foundation,
ISSN 0972-7272.

51. Sandeep K. Sood, Anil K. Sarje, Kuldip Singh, "Inverse Cookies based Virtual Password Authentication Protocol", Intl. J. Network Security, Vol. 13, No. 2, 2011, pp. 98-108.
52. Sandeep K. Sood, Anil K. Sarje, Kuldip Singh, "Secure Dynamic Identity based Authentication Scheme Using Smart Cards", Information Security Journal: A Global Perspective, (Taylor & Francis), vol. 20, no. 2, pp. 67-77, 2011.
53. Sandeep K. Sood, Anil K. Sarje and Kuldip Singh, "A Secure Dynamic Identity based Authentication Protocol for Multi-Server Architecture", Journal of Network and Computer Applications, JNCA (Elsevier), Vol. 34, No. 2, March 2011, Pages 609-618, published online 25-JAN-2011.
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54. Sandeep K. Sood, Anil K. Sarje and Kuldip Singh, "Dynamic identity based single password anti-phishing protocol", Security and Communication Networks (John Wiley & Sons), vol. 4, No. 4, April 2011, pp. 418-427, DOI: 10.1002/sec.169 (Article first published online: 9 DEC 2009).
55. K. Sivakumar, Anil K. Sarje, K. Garg, "Yukti: A Dynamic Agents based IDS with Suspect Engine to Detect Diverse XSS Attacks", International Journal of Computer Applications (IJCA) - Special Issue on "Network Security & Cryptography", pp 20-27, Dec 2011.
56. Sandeep K. Sood, Anil K. Sarje and Kuldip Singh, "SSO password based multi-server authentication protocol", Intl. J. Communication Networks and Distributed Systems, IJCNDs – Special Issue on Trust, Reputation and Security (Inderscience), vol. 9, no. 1/2, 2012, pp 161-180. (DOI: 10.1504/IJCNDs.2012.047901)
57. Rakesh Kumar, Anil K. Sarje, Manoj Misra, "Analysis of Frameworks and QoS Routing Protocols for MANETs", SCIT Journal, vol. XII, Aug. 2012, pp. 13-26.
58. Satya Prakash and Anil K. Sarje, "Hash Function Generation through Structural Feature for Image Authentication", Intl. J. of Engineering Science and Innovative Technology (IJESIT), vol. 2, issue 2, March 2013, pp 1-8.

59. Jasnil Bodele, "Dynamic Load Balancing with Cost and Energy Optimization in Cloud Computing", Intl. J. of Engineering Research & Technology (IJERT), vol. 2, issue 4, April 2013, pp 1006-1010.
60. Shree Garg, Sateesh K. Peddoju, Anil K. Sarje, "Scalable P2P Bot Detection System Based on Network Data Stream", Peer to Peer Networking and Application, Springer 2015, pp 1-17. DOI: 10.1007/s12083-016-0440-9, (<http://link.springer.com/article/10.1007/s12083-016-0440-9>)
61. K. Mani Kanta and Anil K Sarje, "[A New Approach to Heuristic factor in Ant Colony Optimization for Cloud Load balancing](#)", Intl. Journal of Applied Engineering Research (IJAER), Vol. 10, No. 85, 2015, *Special Issue*, pp.269-274.
62. Shree Garg, Sateesh K. Peddoju, Anil K. Sarje, "Network based detection of Android Malicious Apps", International Journal of Information Security, 2016, pp. 1-16, available online (DOI: 10.1007/s10207-016-0343-z)

B. Conference Papers:

1. Anil K. Sarje and N.N. Biswas, "The implied minterm structure of threshold functions" CSI-76, Annual Convention of Computer Society of India, Hyderabad, Jan. 1976.
2. Anil K. Sarje and N.N. Biswas, "A heuristic algorithm for realization of threshold functions" CSI-79, Annual Convention of Computer Society of India, Bangalore, Jan. 1979.
3. G. Sagar, Anil K. Sarje and K.U. Ahmad, "Task allocation techniques for distributed computing systems" 23rd Annual Convention of the Computer Society of India, 6-9 Jan. 1988, Madras.
4. G. Sagar, Anil K. Sarje and K.U. Ahmad, "Allocation of program modules among processors in a distributed computing system", 14th Annual Convention of IEEE India Council, 18-20 April 1988, Bombay.
5. G. Sagar and Anil K. Sarje, "On program partitioning", Proceedings of All India Seminar on Recent Trends in Instrumentation, E. & C. E. Department, University of Roorkee, 30-31 January 1989, pp135-142.
6. E.V. Prasad and Anil K. Sarje, "A generalised solution for the bandwidth of multiprocessors" NACONECS-89, National Conference on Electronics Circuits and Systems, E. & C. E. Department, U.O.R., Nov. 2-4, 1989, pp 110-112.

7. G. Sagar, Anil K. Sarje and K.U. Ahmad, "A task allocation model using network flow graphs" NACONECS-89, National Conference on Electronic Circuits and Systems, E. & C. E. Department, U.O.R., Nov. 2-4, 1989, pp 193-195.
8. G. Sagar and Anil K. Sarje, "A dynamic load balancing policy for heterogeneous multicomputer system", Second IASTED International Conference on Computer Applications in Industry, Alexandria, Egypt, May 5-7, 1992.
9. G. Sagar and Anil K. Sarje, "A static task allocation scheme for distributed computers", IASTED International Conference on Modelling and Simulation, April 27-29, 1995 at Pittsburgh, U.S.A.
10. W.U. Khan, Anil K. Sarje and R. Thapar, "Real time medium access protocol for distributed computer systems", International Conference on Automation, ICAUTO-95, Dec. 11-14, 1995, Indore, India, pp. 423-426.
11. R. Thapar, Anil K. Sarje and K. Vipin Babu, "Dynamic scheduling with load balancing in hard real time systems", Fourteenth IASTED International Conference on Applies Informatics, Feb. 1996, Innsbruck, Austria.
12. G. Sagar and Anil K. Sarje, "An algorithm for task allocation with precedence constraints", Proceedings of the 31st Annual Convention of the Computer Society of India (CSI-96), Oct. 30 -Nov. 3, 1996, Bangalore, India, pp. 485-488.
13. P.K. Singh and Anil K. Sarje, "Fine grain parallelism detection in parallelizing compiler", Proceedings of the 31st Annual Convention of the Computer Society of India (CSI-96), Oct. 30 -Nov. 3, 1996, Bangalore, India, pp. 489-492.
14. Faiz Baothman, R.C. Joshi and Anil K. Sarje, "Distributed databases for banking system with optimistic locking concurrency control", Proc. Intl. Conference on Information Technology in Education and Training, AIAET, Dec. 28-30, 1996, Indore.
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16. Faiz Baothman, Anil K. Sarje and R.C. Joshi, "Concurrency control for traditional and real-time databases: A comparative study", Proceedings of the Intl. Conference on Cognitive Systems, ICCS 97, Dec. 13-15, 1997, New Delhi, pp. 397-410.
17. Faiz Baothman, R.C. Joshi and Anil K. Sarje, "Scheduling of optimistic transactions in soft real-time database systems", Proceedings of the Intl. Conference on Cognitive Systems, ICCS 97, Dec. 13-15, 1997, New Delhi, pp. 191-201.
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19. Mohan Lal, Anil K. Sarje and J. Vashistha, "Routing of communication networks with unreliable components using artificial neural networks", Proc. National Seminar on Artificial Neural Networks and Cognitive Systems ANCS-98), Sept. 23-25, 1998, Cochin, India.
20. Faiz Baothman, Anil K. Sarje and R.C. Joshi, "Performance of an optimistic-locking concurrency control scheme in real-time database systems", Proc. National Conference on Advanced Databases and Applications (NCADA '98), Oct.30-31, 1998, School of Computer Science and Engineering, Anna University, Chennai, pp. 27-36.
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22. Faiz Baothman, Anil K. Sarje and R.C. Joshi, "On optimistic concurrency control for RTDBS", Proc. IEEE TENCON '98, IEEE Region 10 International Conference on Global Connectivity in Energy, Computer, Communication and Control, Dec.17-19, 1998, New Delhi, pp. 615-618.
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25. S. Sridhar and Anil K. Sarje, "A multideestination routing approach to improve web server response", Proc. 7th International Conference on Advanced Computing and Communications (ADCOM-99), Dec. 20-22, 1999, Roorkee, pp 270-274.
26. Mohan Lal, Anil K. Sarje and Vivek K. Bhugra, "Performance analysis of leaky bucket schemes against a fuzzy based approach", International Conference on Cognitive Systems (ICCS 99), Dec. 11-11, 1999, New Delhi.
27. Mohan Lal, Anil K. Sarje and Harish Agarwal, "A prioritized adaptive bandwidth reservation scheme for real-time wireless networks", Intl. Conference on Communication, Control and Signal Processing in the Next Millenium, CCSP-2000 (sponsored by IEEE), July 25-28, 2000, Bangalore, India.
28. Mohan Lal, Anil K. Sarje and Pratap Singh, "An algorithm for dynamic replication and migration of Internet objects for a global hosting service", CSI-2000, XXXV Annual Convention on Society and Digital Millenium, Sept. 12-16, 2000, Chennai, India.
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30. Ashutosh Upadhaya, Saurabh Vashishtha, Raman Grover and Anil K. Sarje, "[Network management system using web server based mobile agents](#)", Intl. Workshop on Distributed Computing, Dec. 27-30, 2004, Indian Statistical Institute, Kolkata, published in Lecture Notes in Computer Science, vol. 3326 (Springer Verlag).
31. Navdeep Kaur, Manoj Misra and Anil K. Sarje, "Performance Evaluation of Concurrency Control Algorithm for Multilevel Secure Distributed Databases", IEEE SCONEST, Pakistan, Dec. 2004.
32. Udai Shanker, M. Misra and Anil K. Sarje, "A modified distributed real-time commit protocol", Proc. Intl. Conf on Systemics, Cybernetics and Informatics, ICSCI 2005, Hyderabad, Jan 06-09, 2005, pp. 783-786.
33. Udai Shanker, M. Misra and Anil K. Sarje, "A new commit protocol for distributed real-time database systems" Proc. IASTED Intl Conf. On Databases and Applications (DBA 2005), Innsbruck, Australia, Feb. 14-16, 2005, pp 122-127.

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35. Rajwinder Singh and Anil K. Sarje, "Addressing Security Issues in mobile agent based e-commerce system", AICTE Sponsored National Conference on Current Advance in Information Protection and Security, Jodhpur, Feb. 2005.
36. Udai Shanker, M. Misra and Anil K. Sarje, "Optimizing distributed real-time transaction processing during execution phase" Proc. 3rd Intl. Conf. On Computer Application (ICCA 2005), Univ. of Computer Studies, Yangon, Myanmar, March 9-10, 2005, pp 1-7.
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38. Navdeep Kaur, Manoj Misra and Anil K. Sarje, "Performance Evaluation of Secure Concurrency Control Algorithm for Multilevel Secure Distributed Database Systems", Proc. International Conference on Information Technology: Coding and Computing, 2005, ITCC 2005, Las Vegas, Nevada, USA, 4-6 April, 2005, pp 249-254.
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