

ISSN 0975 - 2463

NATIONAL JOURNAL OF COMPUTER SCIENCE & TECHNOLOGY

Volume: 1 | Issue: 2 | July - December 2009



Sarva Vidyalaya's:

SV - ACRID

S. V. Institute of Computer Studies, Kadi.

AIM & SCOPE

National Journal of Computer Science and Technology (NJCST) is aimed to provide platform to the researchers, developers, industry experts, academicians and authors interested in state-of-the-art and state-of-the-practice activities and to publish their research-based papers, articles and case reviews on various topics of current concern on Computer Science and Technology.

CALL FOR PAPERS

We invite unpublished, original theoretical or empirical research papers, review papers, case studies from researchers/developers/industry experts/academicians for publication in National Journal of Computer Science and Technology (NJCST) in IEEE format to Editor-in-Chief round the year. Authors are required to follow the submission guideline in IEEE format available at www.svics.ac.in

INFORMATION TO AUTHORS

1. The author should send three hard copies and one CD of strictly black and white manuscript/paper, using Microsoft Word Software Package in prescribed IEEE format.
2. Papers are accepted for review with the understanding that the same work has been neither submitted nor published elsewhere.
3. The Editor-in-Chief reserves all rights to modify and otherwise improve the manuscripts to meet the journal's standards of contents, presentation & style. The material once published in NJCST should not be reproduced or reprinted, either in full or in part without prior written permission from Editor-in-Chief.

REVIEW PROCESS

The Editorial committee first evaluates all manuscripts. It is rare, but it is entirely feasible for an exceptional manuscript to be accepted at this stage. Those rejected at this stage may not be up to the mark or are outside the aims and scope of the journal will not be sent to the reviewer panel for review process. The manuscripts that meet the minimum criteria are reviewed by at least two referees. Positive recommendations of the referees and board of editors for the manuscript will be considered for the publication. The review process usually takes 2 to 3 months.

Copyright © 2009, S. V. Academy for Research, Innovation and Development, S V Institute of Computer Studies, S V Campus, Kadi, Gujarat

ISSN 0975-2463

Send your Article / Feedback / Subscription request to:

PROF. (DR.) NILESH K. MODI

Editor-in-Chief, National Journal of Computer Science and Technology,
S. V. Academy for Research, Innovation and Development (SV-ACRID),
S. V. Institute of Computer Studies, Sarva Vidyalaya Campus, B/H. Railway Station, Kadi – 382715 (Gujarat, India)
Contact: 02764 – 244382 | Tele-fax: 02764 – 244381 | Website: <http://www.svics.ac.in> | Email: editor.njcst@svics.ac.in

ADVISOR EDITORS

Prof. (Dr.) S M Shah,
Director,
S V Institute of Computer Studies, Kadi

Prof. (Dr.) V R Rathod,
Head, Dept. of Computer Science, Bhavnagar
University, Bhavnagar

EDITOR-IN-CHIEF

Prof. (Dr.) Nilesh K Modi,
Head of the Department,
S V Institute of Computer Studies, Kadi

EDITORIAL BOARD

Prof. (Dr.) P. Thrimurthy
Head, Department of Computer Science,
Acharya Nagarjuna Univesity,
Nagarjuna Nagar, Andhra Pradesh

Prof. (Dr.) H. R. Vishwakarma
Professor, School of Computing Science,
Vallore Instittue of Technology,
VIT University, Vallore, Tamilnadu

Dr. Bhuvan Unhelkar
Head, Mobile Internet Research
and Applications Group (MIRAG),
University of Western Sydney, Australia

Prof. (Dr.) Nilay Yajnik
Professor, Information Systems,
School of Business Management
NMIMS University, Mumbai, Maharastra

Prof. (Dr.) N. N. Jani
Director, S K Patel Institute of Management
and Computer Studies,
Kadi Sarva Vishwavidhyalaya, Gandhinagar, Gujarat

Prof. (Dr.) R. Elijah Blessing
Head,
Department of Computer Science & Engineering,
Karunya University, Coimbatore, Tamilnadu

Prof. (Dr.) Ranjit Biswas
Dean and Head,
Institute of Technology & Management,
Gurgaon, Haryana

Prof. (Dr.) G. Arumugam
Head, Department of Computer Science,
Madurai Kamaraj University,
Madurai, Tamilnadu

Prof. (Dr.) D. B. Choksi,
Head, Department of Computer Science,
Sardar Patel University, Vallabh Vidyanagar, Gujarat

Prof. (Dr.) S. S. Sarangdevat
Director, Computer Science Department,
JRN Rajasthan Vidyapith Univeristy,
Udaipur, Rajasthan

Prof. (Dr.) A. Anthony Irudhayaraj
Dean (CSE/IT),
Aarupadai Veedu Institute of Technology,
Vinayaka Missions University,
Kancheepuram Dt, Tamilnadu

Prof. (Dr.) G. Raju
Professor,
School of Inforamtion Science and Technology,
Kannur University, Kannur, Kerala.

EDITORIAL MEMBERS

Mr. Pratik S Gohil
Sr. Lecturer

Mr. Rakesh K Patel,
Sr. Lecturer

Mr. Vipul J Joshi
Lecturer

S V Institute of Computer Studies, Kadi

Index

Performance Evaluation of Audio Video Data Transfer in 802.11b WLAN Environment.....	5
Authors: Dr. Atul M Gonsai And Prof. (Dr.) Nilesh K Modi	
Development of Multi-agent System for Academic Institute by Integrating Domain Ontology ..	9
Authors: Ms. Swaminarayan Priya, Ms. Sanskruti Patel, Dr.V.R.Rathod And Dr.Priti Sajja	
Fault Management of LAN – A Hierarchical Adaptive Distributed Diagnosis Algorithm	15
Authors: Ram Kumar Singh And Vijay Dev Sazena	
Optimization of Network Bandwidth using Image Compression.....	20
Author: Rebecca Vincent	
A Secure Framework For Data Transfer In Mobile Adhoc Network.....	25
Authors: Prashanta Kumar Patra, Animesh Tripathy And Basudha Das	
Software Understanding With Video- On-Demand (Vod) System.....	30
Authors: Prof. (Dr.) R.K. Chhotray And Dr. R.N. Satpathy	
FPGA Implementation of I2C Bus System.....	35
Authors: K.Sulochana And K.Babulu	
The Testing Strategy for Quality ETL Module Development of a Data Warehouse -An Empirical Study-	40
Authors: Jaiteg Singh And Kawaljeet Singh	
RECONOS – An Adjustable Kernel Architecture (Part I).....	46
Authors: Mr. Pratik S. Gohil And Dr. S. M. Shah	
Business Intelligence Technologies for advanced predictive analysis in ERP environment.....	50
Authors: Prof Shyamal M Tanna, Dr. S. M. Shah And Dr. N. N. Jani	

NATIONAL JOURNAL OF COMPUTER SCIENCE AND TECHNOLOGY

Volume: 1

Issue: 2

July - December 2009

Subscription Detail

To become a regular subscriber, please complete and mail this form to us.

Periodicity: Half Yearly

Subscription Form

Name of Authority: _____

Name of Organization: _____

Address: _____

City: _____ State: _____ Pin: _____

Phone: _____ Fax: _____

Email: _____

Please find enclosed a sum of Rs. _____ by Demand Draft No. _____

Bank _____ Date: _____

In favor of **“S. V. Academy for Research, Innovation and Development”** payable at Kadi.

Seal & Signature of
Head of Institute

Subscription Rate:

Years	Number of Issues	You Pay
1 Year	2 Issues	Rs. 800/- (Including Postage)
2 Years	4 Issues	Rs. 1500/- (Including Postage)
3 Years	6 Issues	Rs. 2100/- (Including Postage)

Payment can be made by Demand Draft drawn through Nationalized Bank in favor of **“S. V. Academy for Research, Innovation and Development”** payable at Kadi, Gujarat.

Disclaimer: The views expressed by the authors do not necessarily represent those of editorial board or publisher. Although every care has been taken to avoid errors, this journal is being published on the condition and understanding that all the information provided in this journal is merely for reference and must not be taken as having authority of or binding in any way on the authors, editors and publisher who do not owe any responsibility for any damage or loss to any person, for the result of any action taken on the basis of this work. The publisher shall be obliged if mistakes are brought to their notice.

The author is responsible for obtaining copyright release and corporate and security clearances prior to submitting material for consideration. Publisher assumes that authors have gone through the process of clearance and are granted when a paper is submitted.



Published by :

S V Academy for Research, Innovation & Development,

S. V. Institute of Computer Studies, S. V. Campus, B/H Railway Station,

Kadi - 382715 (Gujarat) Website: www.njcst.svics.ac.in Email: njcst@svics.ac.in



www.njcst.svics.ac.in