

CURRICULUM VITAE

Name : **Dr. S. ALBERT RABARA**

Designation : **Vice Principal**

Department : **Associate Professor in Computer Science**

Institution : **St. Joseph's College (Autonomous)**
College with Potential for Excellence
Nationally Accredited with A⁺ Grade by NAAC
Affiliated to Bharathidasan University, Tiruchirappalli
Tiruchirappalli - 620 002
Tamil Nadu, India
www.rabara.in

Residence : **CATHARIN BHAVAN**
10, Pillayarkoil Street,
Sanjeevi Nagar,
Tiruchirappalli 620 002.

E-mail : **a_rabara@yahoo.com**

Mobile No. : **+9194431 27199**

Date of Birth : **31.07.1962**

Nationality : **Indian**

Educational Qualifications

Degree	Subject	University	Year	Class
Ph.D.	Computer Science	Bharathidasan University, Tiruchirapalli	2001	Commended
PGDCSA	Computer Science	Bharathidasan University, Tiruchirapalli	1988	First
M.Sc.	Physics	Madurai Kamaraj University, Madurai	1985	First
B.Sc.	Physics	Madurai Kamaraj University, Madurai	1983	First

Professional Experience

Period		Designation	Nature of Duties	Name of the Institution
From	To			
01.02.1989	Till date	Associate Professor	Teaching, Research Consultancy & Extension	St. Joseph's College, (Autonomous), Tiruchirappalli.
05.11.1990	30.04.1994	Assistant Director	Hostel Administration	New Hostel
12.06.2001	15.06.2004	Vice Principal	Administration General	St. Joseph's College, (Autonomous), Tiruchirappalli.
15.09.2004	31.04.2005	Project Director,	College Automation	
15.06.2005	15.06.2010	Coordinator, JCICT	Administration, Technology	
12.06.2016	15.06.2019	Vice Principal	Administration General	

Teaching Experience

Courses / Classes taught	Name of the Institution	Duration		Total Years
		From	To	
M.Phil Computer Science	St. Joseph's College	July 2001	To date	12
MCA, M.Sc. Computer Science M S Information Technology, MS Cyber Technology, PGDCSA	St. Joseph's College	26-07-1988	To date	25
B.Sc. Computer Science	St. Joseph's College	05-12-1986	To date	27
M.Tech Information Technology	Bharathidasan University (Guest Faculty)	August 2005	April 2009	4
M.Phil Computer Science	Bharathidasan University (CDE) (Guest Faculty)	August 2002	Feb 2005	3

CONTRIBUTIONS TO TEACHING/RESEARCH/ EXTENSION/CONSULTANCY & ADMINISTRATION

1. TEACHING

a. Class Room Teaching

- Loyal to Teaching Profession during the last sixteen years in MCA, M.Sc. Computer Science, M.Sc. Cyber Technology, M.Phil., Computer Science and B.Sc. Computer Science Courses
- Introducing Novelty in Class Room Teaching according to the learning climate
- Use of Modern Technology like LCD Projector, Multimedia Teaching and Visual Techniques
- Updating and Transferring the latest developments in the Higher Education field in general (Global as well as National) and the Subject in Particular
- Encouraging the students to maximize their potential skills to meet complex world outside as a graduate both in the subject and the essential social skills such as Team Spirit, Leadership, Communication, Group Work etc...
- Motivate the students to equip themselves to face interviews confidently in a globalised competitive world.

b. Curriculum Design

- As a member, Board of Studies, Dept. of Computer Science, involved in the design of curriculum for UG, PG and M.Phil., courses in the College for the past 25 years
- Served as a Member, PG Board of Studies in
 - ❖ Bharathidasan University, Tiruchirappalli
 - ❖ Madurai Kamaraj University, MaduraiInvolved in the design of curriculum for MCA, M.Sc., Computer Science, M.Sc. Information Technology and M.Phil., Computer Science courses.
- Involved in the design of curriculum for MCA, M.Sc., Computer Science, M.Sc., Information Technology courses, as a member of Board of Studies on the Autonomous Colleges in

- St. Xavier's College, Palyamkottai
 - Bishop Heber College, Tiruchirappalli
 - J.A. College for Women, Periyakulam
 - Govt Arts College for Women, Kumbakonam
- Involved in the design of curriculum – One year Vocational Training course for rural Women – **Sponsored by Backward Welfare Commission, New Delhi** through the Extension Department SHEPHERD, St. Joseph's College, Tiruchirappalli.
 - Involved in the design of curriculum – One year Vocational Training course in Computer Applications for rural Women – **Sponsored by Ministry of Human Resource Development, New Delhi and Tamil Nadu State Council for Science and Technology** through the Extension Department SHEPHERD, St. Joseph's College, Tiruchirappalli.

c. Study Materials Prepared

- Prepared more than 100 Teaching Materials in **Multimedia E-Contents** on specialized topics for M.Phil., MCA students
- Prepared a Book **"Computer Literacy"** for beginners in Computer Science.
- Prepared a **VCD on Computer Fundamentals** for beginners in Computer Science and Non Computer Science Students
- Prepared a **VCD on Introduction to Internet**
- Prepared course materials for M.Phil., students in the recent fields of advancements
- Prepared lesson materials for Bharathidasan University MCA students in advanced topics
- Prepared lesson materials for Mother Teresa University M.Phil., students On Mathematical Foundations in Computer Science

2. RESEARCH

a. Awarded Ph.D. in Computer Science

- Title of the Thesis:

Methodologies to Enhance Concurrency in Object Oriented Systems

- Awarded by Bharathidasan University, Tiruchirappalli.
- Year of Award – September 2001.

b. Area of Specialization

- Network and Security, Wireless and Mobile Security, NGN Technology, Web Services Security

c. Research Experience & Guidance

- 20 years of Research Experience at various levels
- Completed Ph.D Course Work and the core research in the Dept. of Computer Science, Pondicherry University during 1996 to 1998
- Visited the following Institutes of Excellences for knowledge Acquisition, Research References and Expert guidance
 - Indian Institute of Science, Bangalore
 - Indian Institute of Technology, New Delhi
 - Jawaharlal Nehru University, New Delhi
 - Indian Institute of Technology, Chennai
- Guided **Ten Ph.D. Scholars** and Awarded Ph.D Degree in Computer Science by Bharathidasan University, Tiruchirappalli (List Enclosed)
- Guiding **Six Ph.D Scholars in Computer Science**
- Guided over **45 M.Phil., Thesis in Computer Science** on various topics (List Enclosed)
- Guided **over 200 projects** for MCA, M.Sc. Computer Science, M.Sc., Cyber Technology students

d. Research Projects

Name of the Project	Funding Agency	Title	Amount (Rs.)	Status
Minor Research Project	UGC	NC Parallel Algorithm to find the Core of Intersection Graphs	15,000	Completed 1992 - 94
Minor Research Project	UGC	Multilevel Security Architecture for Wireless LAN	1,00,000	Completed 2004 - 06
Minor Research Project	UGC	Designing IPv6 Security Framework For Mobile Networks	1,00,000	Completed 2008 - 10
Minor Research Project	UGC SERO	Study on Establishing Internet of Things (IoT) Based Information Kendra in District Level For Integrating Smart Applications	2,93,454	Completed 2016 - 18

e. Authorship/ Journals/Proceedings Edited

Albert Rabara & Britto Ramesh Kumar,

An Architecture for Secure Mobile Payment System Using PKI,

Lambert Academic Publications,

ISBN 978- 3-659- 34542-5 Available in www.amazon.com

Editor - Proceedings of the National Conference on Computer Science and Communication Technology, (NCSCT 2007), St. Joseph's College, Trichy, 2007

Proceedings of the national Conference on **The Role of ICT in Higher Education: Quality Accessibility and Security**", St. Joseph's College, Trichy, 2010

f. Research Publications

**Number of Research Papers Published
in International Journals//International
and National Conference Proceedings / Edited Books ... 84**

(List Enclosed)

Journals ... 16

IEEE, ACM, Springer Science and
Elsevier Publications ... 113

Edited Books (ISBN) ... 6
(Tata McGraw Hill, Macmillan)

International / National Conference Proceedings ... 28
(ISBN, DOI Indexed)

No of Articles Published in Impact Factor Journals ... 11

All the Publications are Indexed and Copyright ownership by the publishers
(View): DBLP Computer Science Bibliography, IEEE Digital Library Catalogue,
ACM Digital Library Catalogue and Available in... **Google Search - S. Albert
Rabara**

g. Research Awards Received

- **Four Awards Received - Dr. T V Antony Research Award** for Best Research Paper Publications in Science in the years 2011, 2008, 2005, 2001, during the Annual Day celebrations at St. Joseph's College, Tiruchirappalli.

h) Details of Research Conferences, Seminars, Organized

(Served as an Organizing Secretary / Organizing Committee Member)

Si. No	Title	Type	Date	Role
1.	The Role of ICT in Higher Education : Quality Accessibility and Security (JCICT)	National Conference UGC Sponsored	29-30 January 2010	Organizing Secretary
2.	Higher Education and National Development - The Challenge of Expansion, Quality and Inclusion (IQAC)	National Conference	30 & 31 January 2009	Member Organizing Committee
3.	Computer Science and Communication Technology NCSCT -2007 – Comp.Sci	National Conference UGC Sponsored	16-17 Feb.2007	Organizing Secretary
4.	Digitalized Information Exchange for Quality Sustenance and Enhancement among Accredited Institutions	National Seminar (NAAC Sponsored)	3-4 March 2005	Member Organizing Committee
5.	Computer Science and Informatics (Comp.Sci)	National Conference (UGC Sponsored)	18-19 Feb 2005	Member Organizing Committee
6.	Three Day Workshop on Theory of Computing (Comp.Sci)	State Level Workshop	27-29 Aug 2004	Member Organizing Committee
7.	One Day Workshop on Recent Trends in Information Technology (Comp.Sci)	Regional Level	24 Sep 2004	Organizing Secretary
8.	National Conference on Object Oriented Technology (NCOOT 98) Dept. of Computer Science, Pondicherry University	National Conference	6-7 February 1998	Member Organizing Committee

3. EXTENSION

- **Member – Core Committee** – Extension Dept – **SHEPHERD** - St. Joseph's College (Autonomous), Tiruchirapalli **from 1988 to 1998.**
- Actively Involved in the **formation of Extension Programme** – SHEPHERD and Trained the students by giving orientation and conducted several camps in rural villages over a period of 10 years **from 1988 to 1998.**
- Organized and participated nearly **15 Computer Exhibitions (Three days each)** in the Rural Schools belong to Trichy and Karur districts jointly sponsored by the Ministry of Human Resource Dept., New Delhi and Tamil Nadu State Council for Science and Technology through the Extension Dept. SHEPHERD.
- Delivered a number of **Special lectures in the field of Computer Science** for the benefit of rural Schools and rural Women groups, organized by the Ministry of Human Resource Dept., New Delhi and Tamil Nadu State Council for Science and Technology through the Extension Dept. SHEPHERD.
- Actively involved in the **Outreach Programmes** of the College in the adopted villages as resource persons for seminars, as an animator giving orientation to the students and the rural people through guest lectures and addressing public meetings in the village.
- Involved in the diverse activities of **Campus Diversity Initiative**, a special program sponsored by Ford Foundation, New Delhi during **1996-1998.**
- Conducted One Year Computer Training Programmes for **Rural Women through SHEPHERD Sponsored by Backward Welfare Commission, New Delhi.**
- **Conducted One Year Vocational Training Course in Computer Applications for Rural Women** – Sponsored by **Ministry of Human Resource Development, New Delhi** and Tamil Nadu State Council of Science and Technology through the Extension Department SHEPHERD

4. ADMINISTRATION

- Serving as **Vice-Principal** of the College during **2016 - 2019**.
 - Served as **Assistant Director** of the College Hostel (New Hostel) during **1991-1994**.
 - Served as **Organizing Secretary, Sesquicentenary Exhibition (Five Days)**, in St. Joseph's College as part of Sesquicentenary Celebrations during Nov 1994
 - Served a Member of the **Student's Welfare Committee** from **1996 to 2004**.
 - Involved in the activities of the **Service organizations** such as NSS, Youth Red Cross, AICUF, College Band, Fine Arts etc..
 - Involved as a member in the **organizing committee** of Interdepartmental Cultural Festival for students (INDEP) in St. Joseph's College from 1991 onwards.
 - Served as **Vice-Principal** of the College during **2001-2004**.
 - As the capacity of the Vice-Principal, undertaken the responsibility of organizing various events of the college such as Annual Sports Day, Interdepartmental Cultural Festival (INDEP), Convocation, College Day Celebrations etc..
 - Organizer – **160th Year Celebrations** of the College for which His Excellency Dr. A.P.J. ABDUL KALAM, President of India was the Chief Guest – 20th Dec. 2003.
- ❖ **Served several committees as the capacity of Vice Principal and undertaken measures for the development of the College**
- Designed and Erected the **Statue of Patron Saint – St. Joseph's** in the College with a decorated fountain on 23rd April 2003
 - Renovated Britto Hall in 2002
 - Class rooms furniture's are replaced with newly made benches and Desks.
 - Modified Examination Halls such as Lawley Hall and Marian Hall
 - Designed New Entrance with Gardens for the College and Executed.
 - New Gardens were established in different locations of the College
 - **Laid a new road leading to Jubilee Building** which in turn later used for the establishment of Arrupe Library and MBA Block
 - Conducted the College Day Celebrations with a colourful manner

- Taken lead role in the preparation of the proposal on **College with Potential For Excellence - CPE** to be submitted to the UGC
- The **CPE Proposal** was well appreciated and the College has been awarded the status of College with Potential for Excellence in June 2004
- Served as Project Director – College Automation and College WEBSITE Development Project with a team of 15 MCA students from October 2004 – April 2005.
- Introduced the unique **Technology of Video Conferencing** and successfully conducted a special session during the National Conference on “ Digitalization techniques „,” organized by the college in Collaboration with ISRO, Ahmedabad on 3rd March 2005
- Initiated and Involved in the purchase process of Video Conferencing Camera (Sony ...) for the college which is first of its kind in Arts and Science Colleges in March 2005
- Taken a lead role in implementing the College Automation Software and College Website in July 2005
- Actively involved in the process of NAAC Reaccreditation in 2005
- Involved in Preparation of VCD on the Occasion of 160th year of establishment of the College

5. PROFESSIONAL COMPETANCY

Contributions to the College Development

- **Served as the Coordinator – (2005 -2010)**
Fr. Jerome Centre for Information and Communication Technology (JCICT).
- **JCICT- A Centre of excellence of the college, established in the year 2005, promoting the effective use of ICT in the campus with the Vision Mission statements.**
 - **Vision :** To empower teachers and students to train themselves with skills in ICT and later become agents of transformation towards building a knowledge society.
 - **Mission**
 - To meet the Digital technological needs of the campus
 - Automation of campus information system and to maintain the College Website
 - Networking the campus and providing internet facilities.
 - Promoting video conferencing, web-conferencing, e-teaching and e-learning technologies.
 - Linking SJC with BSNL and other agencies
- **As the Founder Coordinator of JCICT**
Established ICT Facilities at JCICT after having studied the technology from the Institute of Development and Research in Banking Technology (IDRBT) Hyderabad – A National Institute for Financial Gateway and Security established by Reserve Bank of India.
- **Technology Established at JCICT with**
 - **Server Cabin with modern Web Servers**
 - This cabin serves as the backbone for connecting the campus with structured Network cabling and **Optic Fiber Cable termination with 10 Mbps Internet Bandwidth by BSNL.**
 - This cabin accommodates Web Servers, Database Servers, Mail Server, Firewall Server, Antivirus Server and Domain Servers.

- **E-Learning Lab**
- **E-Class Room / Video Conferencing Hall**
- **E-Studio, R&D Lab and Development Cabin**

PROFESSIONAL COMPETENCY- EVIDENCES OF SUCCESS

- ✓ **Established JCICT, obtained 10 Mbps Internet bandwidth connected through Optic Fiber Cable from BSNL with an Educational Concessional Tariff in March 2008, the First and Only Arts and Science College in the country.**
- ✓ **Internet access is given free to all the Staff and students of this college, numbering about 6000, on 24 X 7 pattern.**
- ✓ **Developed the dynamic and comprehensive website of the college and hosted on 12th March 2005.**
- ✓ **College website (www.sjctni.edu) was made available for open access anywhere, anytime. Online application form with dynamic number generation, Students attendance, Examination related information, Time tables, Publication of Results and Day-to-day activities of the college such as Notices, Functions, Seminars, Conferences and Publications.**
- ✓ **Developed Online Library Catalogue Web OPAC software in collaboration with the Library Software NIRMAL. Thereby the complete catalogue of 1, 41,000 volumes of the books in the library has been hosted on the website on 7th August 2006.**
- ✓ **Conducted several ICT Enabled Program to Reaching out ICT technologies in Collaboration with the SHEPHERD Extension Department to Self Help Groups (SHGs), Panchyatraj Leaders, Rural Educationists, Rural School Students and Agriculturalists are the focal activities of the centre.**
- ✓ **Conducted Training Programme on ICT to 85 teachers belonging to six middle schools in Thogamalai Block in Karur district and 22 Panchayat Assistants of Manikandam block and 15 from Andanallur Block in Trichy district on 27th July 2006.**
- ✓ **Established an Internet Kiosk, the first of its kind in Tiruchy Telecom, Tamil Nadu .in the Govt. High School, Alathur Village, 25 KM away from Tiruchy in collaboration with BSNL, Tiruchy Telecom during a Science Exhibition organized by the Extension Dept during 5th and 6th October 2006.**

- ✓ **One Day training programme** was organized for the Panchayat presidents and Officials towards e-Governance on 5th September 2007.
- ✓ **Conducted a one-day training programme on Information and Communication Technology** on 6th September 2007 for about 20 Panchayat presidents and staff of Thogamalai Block in Karur district under the aegis of SHEPHERD Extension Department. The training was meant to focus on the e-Governance software, computerization of accounts pertaining to tax collection and maintaining income and expenditure.
- ✓ **Set up stalls to explain the features of Internet through a VCD for browsing the Internet during the Land to Lab Exhibition organized by The SHEPHERD Extension Department sponsored by Tamil Nadu State Council of Science and Technology**
- ✓ **One-day seminar on e-Learning Resources for Higher Academic Research** was organized jointly by JCICT and the Department of Library on 2nd February 2008 at St. Joseph's College Library for the M.Phil Scholars of the college.
- ✓ **An orientation programme about Effective use of ICT in Science Teaching** was conducted on 8th January 2009 for school teachers of neighbouring villages. Around 60 teachers participated and used the Internet and ICT facilities
- ✓ **For the first time in Tamil Nadu, JCICT organized ICT exhibits in collaboration with BSNL Tiruchy** as part of the science exhibition organised by the SHEPHERD Extension Department with the assistance of Tamil Nadu State Council of Science and Technology for the benefit of rural school teachers and students during 9th and 10th January 2009 .

The vital components of the exhibits are the demonstration of

- Video conferencing local and external,
- The remote monitoring services through broadband which could facilitate view of 16 screens at a time sitting in a single room,
- Web Conferencing through broad band for integrated services for Internet, audio, video and text,
- CCTV on Wireless,
- EV—DO(Evaluation of Digital Optimization) technology for anywhere, anytime mobile internet access,
- High speed internet through WLL connections,
- Wireless CCTV and
- A movie on internet are the most captivating exhibits put up at JCICT.
- Apart from the staff and students of the college, as many as 5000 students from 21 schools visited the exhibits and virtually gained knowledge about the latest ICT facilities. The ICT exhibits were very much highlighted by the media.

Video Conferencing Programmes

- Conducted several Video Conferencing Programmes regularly on various occasions of the college with
 - ISRO, Ahmedabad
 - IGCAR, Kalpakkam, Chennai,
 - IDRBT, Hyderabad,
 - BSNL Madurai etc..
 - Staff and students are largely exposed to the technology on a regular basis. St. Joseph's College is the only college which has such facility in the southern part of Tamil Nadu.
 - A conference was organized during the NAAC Peer Team Visit (on Reaccreditation), CPE Review Committee Visit and Autonomy Review Committee Visit.
 - All the high level Committee have highly commended the utilization of the facility at JCICT.

Proof of Global Competence Contributions to the College Development


ICT to the Neighbourhood and the Rural Masses

Reaching out ICT technologies in collaboration with the **SHEPHERD** Extension Department to Self Help Groups (SHGs), Panchayatiraj Leaders, NGOs, Rural Educationists, Rural School Students, Rural-based Small Scale Industrialists, Agriculturalists and Village Artisans.

- ❖ Training Programmes and hands on experience for using Computers and Internet
- ❖ Providing exposure on ICT in the present day context
- ❖ Knowledge of using Websites and contacting people through e-Mail
- ❖ On-Line Information about Government Websites and Government Schemes



The center is focusing its services to provide knowledge on ICT to everyone who enters into this great temple of learning and also the neighbourhood so that they can all become competent personalities in building a knowledge society in India.



For Further Details...

Contact

Rev.Dr.R.Rajarithnam SJ
Principal & Director

Dr.S.Albert Rabara
Coordinator


Fr.Jerome Centre for ICT
St.Joseph's College (Autonomous)
Tiruchirappalli - 620 002
Tamil Nadu, India

Phone : 0431- 2721423 / 2721375
Fax : 0431- 2701501
www.sjctni.edu
e-mail: jcict@sjctni.edu

A Glimpse into the Knowledge World !

Fr. JEROME CENTRE
for
Information and Communication Technology
(JCICT)

Center for Campus Networking
e-Learning, & e-Learning Technologies




St. Joseph's College (Autonomous)
Tiruchirappalli - 620 002
Tamil Nadu, India
(College with Potential for Excellence
Nationally Accredited with FIVE Stars)

St.Joseph's College...

The one hundred and sixty two years young St.Joseph's College was founded at Nagapatnam in 1844 by the Fathers of the Society of Jesus (**The Jesuits**). Affiliated as a First Grade College to Bharathidasan University, Tiruchirappalli, it was accredited with Five Stars by NAAC and identified as a College with Potential for Excellence(CPE) by the UGC. The college as such is located in Tiruchirappalli which is situated in the central part of Tamil Nadu and easily accessible by road, rail and air. It has a student strength numbering about 6000, pursuing 13 Under Graduate, 19 Post Graduate and 12 Research Departments.

Fr.Jerome Centre for ICT

Information and Communication Technology (ICT) in education is very helpful in improving the quality of education and obtaining expert knowledge from any corner of the World. A society can become a knowledge society if the ICT tools and the e-Learning Technologies are effectively utilized. St.Joseph's College has established a **Centre under the CPE Scheme** for the effective utilization of the above technologies in teaching and learning processes to train students so that they can develop their intellectual capabilities through Information and Communication Technologies.




Objectives.

- ❖ To upkeep the Internet and Intranet facilities in the campus and maintain the College Website with a move towards a digital campus.
- ❖ To use the ICT and e-Learning facilities in Teaching and Learning processes in order to empower teachers and students within and outside the classroom and also learn purposefully and enjoyably in this college and later become agents of transformation towards building a knowledge society.

Salient Features of JCICT

College Website

- ❖ Multi Purpose Dynamic Website of the College - www.sjctni.edu
- ❖ Comprehensive Information of the college pertaining to administrators, courses, departments, staff and students details, attendance, time table, library and service organizations, Centres of Excellence, hostels, examination information, and day to day activities of the college.




Campus Networking

- 256 Kbps Leased Line Internet Connectivity
- Modern Web Servers and Web Servicing Facilities
- Secured Networks with Physical Firewall and Antivirus Software
- IP based VLAN with L3 Switch
- 140 systems interconnected in the campus for On line access

Video Conferencing Facility

- SONY PCS-1600/1600P (1+3 Multi-Conference) Video Conferencing Camera
- 4 X 128 Kbps ISDN line.
- A static IP address for IP based Video Conferencing



Facilities for e-Learning and e-Learning Technologies

- On Line Learning Facilities
- Digitized Information Access
- 40 IBM Systems with Multimedia
- LCD with Drapper LUMA Pull Down Screen
- Audio Video Studio
- e-Learning Contents Design and Development Facility
- Envisioning an e-Learning Portal

College aims at total digital campus



BETTER CONNECTIVITY: *The Principal of St. Joseph's College, right, Rev. Fr. R. Rajarathinam, with the Coordinator of the Fr. Jerome Centre for ICT, S. Albert Rabara. - PHOTO: R. ASHOK*

R. Krishnamoorthy

TIRUCHI: Through its Jerome Centre for Information and Communication Technology, St. Joseph's College here has uplinked its campus network with 8 Mbps bandwidth, a facility it obtained from the BSNL Corporate Office in New Delhi as a special offer.

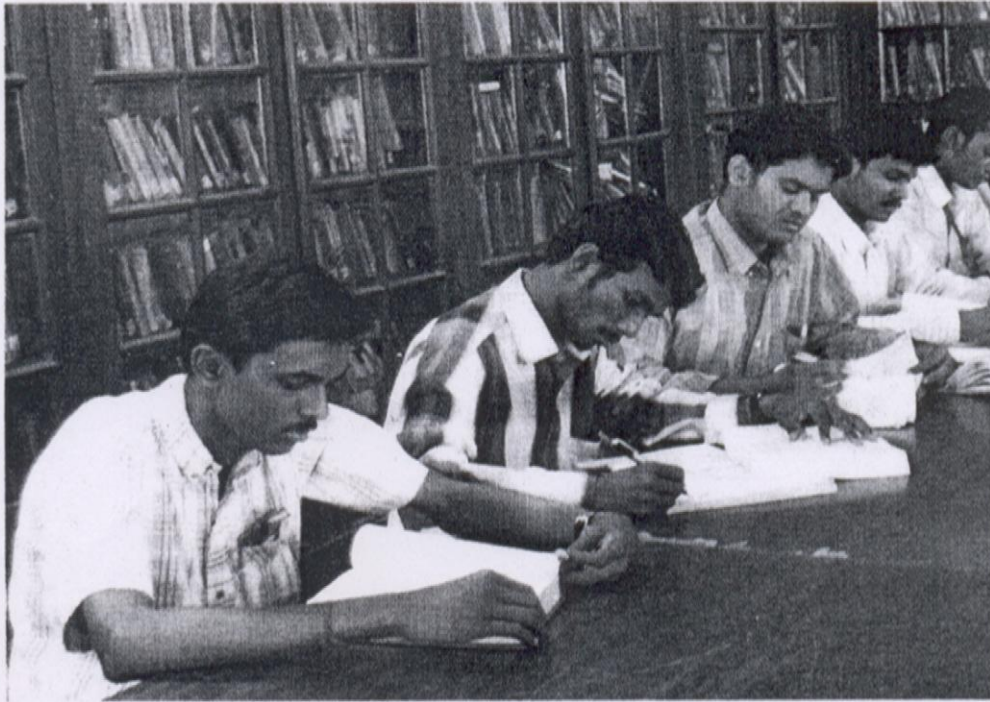
The college is the first and only arts and science institution in the State to establish high-speed connectivity through optic fibre cable. The college is poised to become a total digital campus, said Principal Rev. Fr. R. Rajarathinam.

The college's digital net-

work was connected to more than 200 systems for the purpose of Internet access, e-teaching and e-learning.

The facility was extended to all the staff and students numbering around 6,000 free of cost, he said. The website provides day-to-day information pertaining to the staff and students, students' daily attendance, and semester time table class-wise and faculty-wise.

Online application forms with dynamic generation of application numbers were well received by the public all over the world, said the Centre Coordinator, S. Albert Rabara.



BOOK SEARCH MADE EASY: Students browsing through books at St. Joseph's College Library, where the Online Public Access Cataloguing System was launched recently. PHOTO: R. ASHOK

St. Joseph's opts for online catalogues

By launching Online Public Access Cataloguing System (OPAC) for its library on the Internet, the St. Joseph's College, Tiruchi, has made possible the search for books from anywhere in the Globe.

All that the users need to do is to log on to www.sjctni.edu and make their search for books by selecting the library and online cataloguing.

The complete catalogue of nearly 1,41,000 volumes of the books in the library has been hosted on the website. The digital library initiative by the college follows automation and introduction of barcode technology.

The College's Fr. Jerome Centre for Information Communication Technology (JCICT),

took the help of Library Software Professional, S. Venugopal of the Nirmals Institute of Computer Expertise (NICE), to upgrade the library with the webOPAC facility.

The venture of developing unique interface in JSP and Oracle platform is unique, said Fr. G. Joseph Antony Samy, Library Director. Only a handful of research institutes have made their library catalogue accessible on the Internet, he said.

The webOPAC has 20 JSP pages, two script files, and 70 tables created in oracle. The databases are updated in realtime fashion from the college library and the JCICT. A new database server with high-end configuration has exclusively been dedicated for the purpose. A team from the

JCICT is currently at work to enable Internet access to 200 current periodicals and 20,000 back volumes of journals.

At a function held last week, the College Rector, Fr. S. Lazar, dedicated the facility to the educational society, in the presence of the Secretary, Fr. A. Joseph, and the Principal, Fr. T. Rajarathinam.

With a view to integrating ICT in teaching-learning process, the college has provided free Internet access to all the students and staff, numbering about 6,000. With the Internet and Intranet facilities on the premises, the college was moving towards acquiring a status of Digital Campus, said M. Dorairajan, Librarian.

R. KRISHNAMOORTHY



Exploring digital avenues to enrich knowledge. Students at a seminar at St. Joseph's College, Tiruchi. Photo: R.M. Rajarathinam

Videoconferencing for education

WITH THE concept of computer-aided learning gaining momentum in Tiruchi colleges, the St. Joseph's College here has now introduced videoconferencing for teaching-learning process.

Though the application of videoconferencing in education was hitherto limited to campus interviews, its utility as an effective educational device was explored during the course of a national seminar on 'Digitalised Information Exchange for Quality Sustainance and Enhancement among Accredited Institutions' held at the college.

The videoconferencing system was formally launched by A.R. Dasgupta, Deputy Director of the SATCOM and IT Applications Area (SITAA), Satellite Information Centre, Ahmedabad, following which he made a Power Point presentation through the conferencing camera, explaining the functioning of the device.

According to Mr. Dasgupta, the videoconferencing system, which included a computer terminal, a video camera and a receptor, enabled students to listen to experts and interact with them, and download lecture notes. The system was also useful in retrieving archival

Videoconferencing can be a valuable educational tool for students as their widen their knowledge base, interacting with experts and sharing notes.

data, searching, content mining as well as in workflow management for the students as well as the teacher.

Though many teachers were sceptical about the system's efficiency sidelining their importance, Mr. Dasgupta was quick to reassure that a teacher's presence was primary during videoconferencing as it was but a tool for the teacher to extend his or her reach of the students. Also, there were various methods through which the students' response could be gauged. Posing a set of objective type questions at the end of the session could be a way to know the students' level of comprehension. Stu-

dents could directly interact with the experts during the videoconferencing session itself, or key in their questions or rely on voicemail / e-mail for interaction. FAQ banks were also available in the system which the students could access and get their common doubts clarified.

Cost effectiveness and accessibility were some of the other areas that the audience seemed curious about. Though the initial installation of the system did involve some expenditure on the part of the institutions, local area networks could ensure connectivity within a sphere. Projecting a session on the screen would ensure larger audience participation too, Mr. Dasgupta said.

The college principal, Rev. S. John Britto, said students could utilise the technology to get a first-hand experience in their chosen spheres through interaction with experts from across the country, through EDUSAT or ISDN connectivity. The system would have its applications in primary education as well as in healthcare to benefit the residents of over 70 nearby villages, thus taking it to the rural areas too, he said.

Prathibha Parameswaran



'Land to Lab' exhibition at SJC

ENS
Tiruchy, January 10

IT was an unforgettable moment for almost 6000 students of around 21 rural schools who visited the 'Land to Lab' exhibition organised at St Joseph's College by the Extension Department SHEPHERED in association with Tamil Nadu Science and Technology Council and National Science and Technology Council here on Friday and Saturday.

About 16 stalls put up by the students of various departments of the college, Government and Non-governmental departments like Anna Science Centre, Tiruchy, Directorate of Field Publicity, Tiruchy, BSNL, Forest Department, Child Jesus Hospital and National Research Centre for Banana introduced the students to science and technology.

'The is a small step just to expose the unfortunate rural



EXPRESS

Students watching through the skywatch equipment in land-to-lab exhibition conducted at St Josseph's College. Fr R Rajarathinam looks on.

school students in terms of technology and other sciences', said Fr R Rajarathinam, Principal. 'We have allotted enough time to the students to visit and cherish it. It could be a kind of motivation', he added.

The most captivating exhibit was from Fr Jerome Centre for Information and Communication Technology (JCICT) in association with

BSNL. There was a demonstration on video conferencing (Local and External). 'We have equipment in our centre and BSNL has lent additional equipment for the purpose', said Dr S Albert Rabara Coordinator.

The remote monitoring services could facilitate view of 16 screens at a time sitting in a single room. 'It is successful and would be established for real use soon', said Rabara. They had other exhibits like web camera modem, web conferencing though broad band for integrated services (Internet + Audio + Video + Text), EV-DO technology, CCTV through wireless, CCTV data cards and movie on internet. Rev Dr Lazar, Rector Felicitate, Fr Rajarathinam, and Fr Arul Dhas, Director of SHEPHERED, A Balraj, Principal General Manager, BSNL, and others participated.



Fishermen were "beaten up"

Some Ramanathapuram fishermen alleged on Friday that they were beaten up by Sri Lankan Navy personnel. Page 4

**Bail for 40 law college students**

The Madras High Court on Friday ordered students arrested in connection with the clash at the law college in Chennai on N

'Land to Laboratory' to relish beauty of science, technology

As many as 5,000 students from 21 schools may visit the exhibition

Staff Reporter

TIRUCHI: Learning of science and technology in the realm of practical application has always been beyond the reach of students of Government high and higher secondary schools.

Needless to say how they would be enthused whenever they get opportunities to relish the beauty of scientific and technological applications. One such awaited occasion was the two-day 'Land to Laboratory' Science exhibition that started on Friday at the St. Joseph's College. The Principal General Manager of BSNL, Tiruchi, A. Balraj, inaugurated the exhibition.

Under the aegis of its extension wing, SHEPHERD (Science and Humanities for People's Development), the College has been organising the event every year to expose school students to the latest developments on various fronts, the Principal Rev. Fr. R. Rajarathnam said, adding that this year, the College has received support from the Tamil Nadu State Council for Science and Technology and National Science and Technology Council.

Students of various departments in the college displayed models on various topics pertaining to Computer Science, Electronics, Statistics, Information Technology, Physics, Biotechnology and Biochemistry.

There are a total of 350 exhibits. As many as 5,000 students from 21 schools in the districts of Tiruchi and Karur



COMPREHENDING CONCEPTS: Participant explaining a point to school students during the science exhibition at St. Joseph's College in Tiruchi on Friday. — PHOTO: R. ASHOK

are expected to visit the exhibition over the two-day period, according to C. Jeyachandran, one of the coordinators of SHEPHERD.

A vital highlight of the exhibition was the display of latest technologies by the Bharat Sanchar Nigam Limited (BSNL), with support from

the College's Fr. Jerome Centre for Information and Communication Technologies. For the first time in Tamil Nadu, ICT exhibits were put up, S. Albert Babara, Co-ordinator of the Centre, said.

The Video-conferencing (local and external) held the attention of most of the vis-

itors. Visiting students were given opportunities to take part in video-conferencing. Equally captivating were the exhibits explaining the functioning of Remote Monitoring Services; Web Camera Modem; Web Conferencing through Broad Band for Integrated Services (Internet +

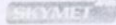
Audio + Video + Text); EV-DO (Evaluation of Digital Optimisation) Technology for anywhere, anytime Mobile Internet and Telephone Access; High Speed Broad Band WLL Connections; CCTV with wireless; CCTV - Data Cards, and Movie on Internet.

he
ne
ng
id.
%.



Tiruchchirapalli Tomorrow

A cool and clear morning. The day will be warm. Light Southwesterly winds are expected. A few scattered clouds remain in the evening. High 30°C, low 17°C. RH max 80%.
Read RH as Relative Humidity



CITY

READER'S MAIL



Run trains before Inaugural

It was a surprise to learn that the Commissioner of Railway Safety has cleared the newly laid 3G track between Tiruvarur and Nagars for regular traffic. The Railways should introduce trains in this track with limited speed at first. The people have been waiting very long for a long time. The Railways could have a formal inauguration with special train by inviting the Chief Minister at a later date.

D. Rajeswari,
Manager, Railway Corporation, Nagars

The clarification of the Divisional Engineer (Administration), BSNL, Tiruchi in his column (The Hindu dated December 23) seems to be vague. He has not replied for the main problem of the mobile users, i.e., unwanted mobile text messages which cause a lot of trouble and to be stopped immediately.

Jayakumar Indhu S. Raj

Dark night at Airport
On Tuesday, December 23 at 2.45 a.m. I

was off a railway of mine proceeded to Chennai. It was pathetic to see that, even when the terror attack in Mumbai is fresh in public memory, that the airport was in utter darkness and had just two security guards. Passengers had to wait outside in the darkness. Passenger amenities and security arrangements need attention.

K. Srinivasan,
T. V. Kail

Act against litter

It is a pity we blame the Corporation staff for neglecting their duties when we see a lot of papers and plastic waste thrown on the streets. The Corporation should take strict action against street vendors and shop-keepers. Shop-keepers should be compelled to keep waste bins within their premises and deliver to Corporation staff.

T. Ramesh

Model facilities

Video conferencing, unlimited internet browsing with eight MBPS connectivity, a digital library, sprawling lecture rooms and many more facilities are

available at St. Joseph's College, Tiruchi. This should be considered as a model for all educational institutions.

S. Raghavan,
N.I.T., Tiruchi

Restore low-floor buses

The State Transport Corporation has withdrawn the low-floor city buses on certain routes. The bus has a great help to disabled, senior citizens and children. I request the authorities to restore the services.

R. Suresh

Stray dog menace

The roaming of stray dogs and dogs in Kharavela and surrounding areas is a great nuisance. I request the Corporation authorities to check this with immediate effect.

Mohamed Ghous
Munavary
A. S. Puram

Readers can send their mails to mailtiruchi@thehindu.co.in with full postal address and telephone numbers

Handwritten signature and scribble.



SCIENCE AND HUMANITIES FOR PEOPLE'S DEVELOPMENT (SHEPHERD)
EXTENSION DEPARTMENT
ST JOSEPH'S COLLEGE (AUTONOMOUS)
TIRUCHIRAPPALLI - 620 002

SJC/EDL/064/2006-07

09 Oct 2006

Dear Professors / Students,

I am deeply impressed by the action-play performed at the Rural Schools Science Exhibition site in the Govt High School, Alathur by the different Primary / Middle / High / Hr. Sec. Schools, Institutions (BSNL & NRCB) and the departments of our college, namely Chemistry, Physics, Maths, Electronics, Biochemistry and PB&PB. The involvement of the staff and the students with the guidance of the respective staff is indeed marvelous. I appreciate all the individual staff members who took a lot of efforts to present a good show.

The collaborative venture of JCICT with the BSNL (Tiruchirapalli) was perhaps the first of its kind, which provided an opportunity for the rural people and for the school children including the teachers of the rural schools. The dream of the Govt of India to connect all the 600,000 Indian villages with Information Technology has already been started through the establishment of Internet Kiosk in the Exhibition site. I extend my deep appreciation to Dr S Albert Rabara, Coordinator, JCICT and his Team, and the GM, DGM and the officers of the BSNL, Tiruchirapalli.

I sincerely appreciate the committed band of the extension staff of SHEPHERD who have made the whole event systematic, smooth and a great learning experience for the thousands of school children, teachers and rural people.

M. Elias
REV. DR M ELIAS SJ
DIRECTOR

Tel: 0431-2721425 Fax: 0431-2701501 www.sjctni.edu / dirextnsjc@yahoo.com

'Computer knowledge to become basic literacy in course of time'

Training programme for middle and primary school teachers

Staff Reporter

TIRUCHI: For 85 teachers belonging to six middle schools and eight primary schools in Thogamalai Block in Karur district, acquisition of computer literacy was a dire need to make the most of the 84 computers that the BHEL, Tiruchi, had given to them recently.

Similar was the case with 22 Panchayat Assistants of Manikandam block and 15 from Andanallur Block in Tiruchi district, who were supposed to create a grass root level coordination through the computers provided by the State Government.

The initiative of the St. Joseph's College Extension Department to offer them a daylong training on Information and Communication Technology could not have come at a better time. Under the aegis of Science and Humanities for People's Development (SHEP-HERD), the college exposed them to basic uses of computers. Faculty attached to the Fr. Jerome Centre for Information and Communications Technology (JCICT), led by its Co-ordinator, S. Albert Rabara, handled sessions on 'e-governance', MS Word and Excel, and Internet Browsing.

Earlier, the Vice-Principal and Director, Extension Department, Fr. M. Elias, said the programme was conceived to address the situation of digital divide between institutions in urban areas and those in rural pockets. Referring to the devel-



EDUCATION: S. Albert Rabara, Coordinator, Fr. Jerome Centre for Information and Communication Technology, St. Joseph's College, imparting computer literacy to primary school teachers of panchayat schools in Thogamalai Block (Karur district) in Tiruchi on Thursday. - PHOTO: R. ASHOK.

opment of the country in the sphere of Information Technology, the Principal, Fr. R. Rajarathinam, said industrial development does not mean much if it does not reflect in the well-being of the masses. He insisted that a higher educational institution must be a catalyst for the progress of the immediate community.

Inaugurating the training programme, the Rector, Fr. S. Lazar, observed that though India is poised to be an economic superpower in the next couple of decades, there is a need to stand guard against emergence of 'two Indias,' reflecting the two extremities of concentrated prosperity and widespread penury.

Delivering keynote address, the Project Officer of District Rural Development Agency, P. Anandhraj, informed that all facets of district administration are likely to be computerised in a year. In a matter of few years from now, computer knowledge will come to be considered as basic literacy, he noted.

M. Illanchezhiyan, Assistant

Educational Officer, Thogamalai Block, offered felicitations. Following the sessions, the participants underwent hands on experience in computer operations at the JCICT, assisted by Computer Science students.

The JCICT has drawn out a schedule to train more village schoolteachers and panchayat assistants in subsequent phases.

Tiruchi college makes an impact

Plans to introduce a host of new courses

Staff Reporter

TIRUCHI: A bridge course in English it had introduced in the first semester to improve communication skills and the foundation course held in four semesters to imbibe values had stood the St. Joseph's College in good stead to secure the coveted A+ rating from the National Assessment and Accreditation Council (NAAC), according to the Principal, Fr. R. Rajarathinam.

The NAAC peer team, chaired by Ashok S. Kolaskar, former Vice-Chancellor, Pune University, which visited the college during October, had also appreciated the research programmes executed by the Rapinet Herbarium, and the sophisticated instrumentation centre established under the Centre with Potent-

tial for Excellence (CPE) scheme. This facility is of immense help to research students of the college and neighbouring institutions.

The other unique features the team had identified were the Information and Communication Technology of the college with its comprehensive infrastructure, video conferencing and Internet facilities, use of computers in exam-related activities, interactive and well-designed website, and the structured social work carried out in the adopted villages under the SHEPHERD (Science and Humanities for People's Development) programme, said Fr. Rajarathinam.

It was the only college in Bharathidasan University limits to obtain such a rating, he said, adding that A+ implies a score of 90-95 per cent

in overall assessment. The status holds good for seven more years till the college goes in for yet another re-accreditation to sustain and enhance the level of excellence held so far.

Having obtained the A+ status, the college has plans to introduce a slew of new courses, including BCA and B.Com with specialisation in Chartered Accountancy. The various departments will be re-organised into schools for creation of centres of excellence.

A new block is under construction at a cost of Rs. 1.25 crore to house the Joseph's Institute of Management. And MBA will be offered by the institute from the next academic year. A digital library was also coming up at a cost of Rs. 6 crore, Fr. Rajarathinam said.

LIST OF PUBLICATIONS

Journals

1. S. Albert Rabara, D. Sathiya, T. Daisy Premila Bai, J. Ronald Martin, **“ECC based Sign-cryption Scheme for Corporate Environment through Mobile Communication System”**, International Journal of Pure and Applied Mathematics 118 No. 20, PP. 449-456 (2018).
2. S. Albert Rabara, Daisy Premila Bai T, Vimal Jerald A, **“An Adaptable Secure Smart Card Architecture for Internet of Things and Cloud Computing”**, International Journal of Research in Engineering and Technology (IJRET), Vol. 5 Issue 5, pp. 162-170 eISSN: 2319-1163 | pISSN: 2321-7308, 2016.
3. S. Albert Rabara, Daisy Premila Bai T, Vimal Jerald A, **“An Adaptable and Secure Intelligent Smart Card Framework for Internet of Things and Cloud Computing”**, In Proceedings of CSI-2015 : Annual Convention on Digital Life, Springer Science Publications (In Print), 2016.
4. S. Albert Rabara, Daisy Premila Bai T, Sathiya D, Ronald Martin J, **“An Architecture For Secure Mobile Database Transaction For Corporate Environment”** International Journal of Applied Engineering Research, Vol. 10, No. 6, pp. 14813-14828, Research India Publications, ISSN 0973-4562, 2015.
5. S. Albert Rabara, Daisy Premila Bai T, Vimal Jerald M, **“Elliptic Curve Cryptography based Security Framework for Internet of Things and Cloud Computing”**, Recent Advances on Computer Engineering, WSEAS, pp. 65-74, ISBN: 978-1-61804-336-8, 2015.
6. S. Albert Rabara, Daisy Premila Bai T, Vimal Jerald A, **“Quality of Service Architecture for Internet of Things and Cloud Computing”**, International Journal of Computer Applications (IJCA), Vol.128, Issue.7, PP. 23-28, 0975 – 8887, 2015.
7. S. Albert Rabara, **“An Integrated Secure Inter-Mobility IPv4/IPv6 Address Translation Architecture for Corporate Networks”**, International Journal of Future Computer and Communication (IJFCC), Vol. 4, Issue: 5, 316-319, 2010-3751, 2015.
8. Daisy Premila Bai T, Vimal Jerald A, **“Internet of Things (IoT) Architecture for Smart Services”** International Journal of Applied Engineering Research (IJAER), 2015, Vol.10, PP. 543-548, ISSN 0973-4562, 2015.
9. S. Albert Rabara, Daisy Premila Bai T, Vimal Jerald A, **“Internet of Things (IoT) based Smart Environment Integrating Various Business Applications”** International Journal of Computer Applications (IJCA), Vol.128, pp. 32-37, ISSN: 0975-8887, 2015.

10. S. Albert Rabara, Daisy Premila Bai T, Meenakshi Sundaram R, Amutha J, **“An Integrated Security Architecture for Next Generation Networks”**, International Journal of Computer Applications (IJCA), pp. 1-6, ISSN:0975 – 8887, 2015.
11. S. Albert Rabara, **“An Integrated Seamless Mobility and IPv4/IPv6 Address Translation Architecture between IPv4 and IPv6 Networks”**, Journal of Recent Research in Engineering and Technology (JRRET), Vol.2, Issue. 4, 142-151, 02349 - 2252.
12. S. Albert Rabara, Daisy Premila Bai T, Meenakshi Sundaram R, Amutha J, **“An Integrated IP/MPLS Architecture for Next Generation Networks”**, International Journal of Computer Applications, Vol. 104, No. 3, pp. 1-6, ISSN: 0975 – 8887, 2014.
13. S. Albert Rabara, D. Sathiya, J. Ronald Martin, **“A Framework for Secure Mobile Database Transactions using Cryptographic Co-processor”**, International Journal of Computer Applications, Vol. 105, No. 5, pp. 25-30, ISSN: 0975-8887, November, 2014.
14. S. Albert Rabara, Daisy Premila Bai T, Meenakshi Sundaram R, Amutha J, **“An Integrated IP-MPLS Mobility Framework For Next Generation Networks”** International Journal of Computer Science And Technology (IJCST), Vol. 5, Issue 4, ISSN : 2229-4333, 2014.
15. S. Albert Rabara, J Ronald Martin, **“An Integrated and Intelligent Secure Architecture for Mobile Web Services”**, International Journal of Computer Science and Technology, Vol. 5.3, No. 2, pp. 207-212, ISSN: 0976-8491 (Online), 2229-4333 (Print), July - September, 2014.
16. S. Albert Rabara, Daisy Premila Bai T, Meenakshi Sundaram R, Amutha J, **“An Integrated Next Generation IP-MPLS Hybrid Architecture for Seamless Mobility”**, Recent Researches in Electrical Engineering, WSEAS, pp. 124-131, ISBN: 978-960-474-392-6, 2014.
17. S. Albert Rabara, J Ronald Martin, **“An Intelligent Content Filter based framework for Mobile Web Services”**, In Recent Advances in Electrical Engineering Series, WSEAS, Lisbon, Portugal, pp. 124-131, ISBN: 978-960-474-392-6, ISSN: 1790-5117, October 30-November 1, 2014..
18. S. Albert Rabara, J Ronald Martin, Britto Ramesh Kumar, **“Architecture for Integrated and Intelligent Security for Mobile Web Services”**, Proceedings of the First International Conference on Intelligent Infrastructure, Computer Society of India, Kolkata, India, Tata McGraw-Hill Publication, pp. 216-222, ISBN-13: 978-1-25-906170-7, December, 2012.

19.S. Albert Rabara, J. Gnana Jayanthi, "**AIMM-I46: Addressing, Inter-Mobility and Interoperability between IPv4 and IPv6 Networks**", In International Journal of Computing Technology and Information Security, March, ISSN: 2231-1998, Vol.1, No.1, pp.99-105, 2011.

Link: www.ijctis.com

20.Dr.S.Albert Rabara, A. ArunGnana Raj, S.Britto R. Kumar, "**Adopting Cloud Computing for Distributed Auto Synchronized POS Applications**", In International Journal of Computing Technology and Information Security, ISSN: 2231-1998, Vol.1, No.1, pp.76-81, March, 2011.

Link: www.ijctis.com

21.S. Albert Rabara, S. Vijayalakshmi, "**Grilling Gratuitous Detour InAdhoc Network**", In International Journal of Distributed and Parallel Systems (IJDPS)", DOI: 10.5121/ijdps.2011.2204,Vol.2,No.2,March2011.

Link: <http://airccse.org>

22.Dr. S. Albert Rabara, Dr. Britto S R.Kumar, "**Multi-level Security for Integrated Financial Mobile Web Services using Federated ESB**", In International Journal of Computer Applications , DOI: 10.5120, 3948-5292, pp. 39-45, October 2011.

Link: <http://www.ijcaonline.org>

23.S. Albert Rabara, S. Vijayalakshmi, "**Weeding wormhole Attach in MANET Multicast Routing Using Two Novel Techniques – LP3 and NAWA2**", In International Journal of Computer Applications, DOI: 10.5120, 2024 – 2729, No.7, Article 5, IJCA Journal, 2011.

www.ijcaonline.org

24.S. Albert Rabara and S.Vijayalakshmi, "**Interface aware distributed multicast packet replication in adhoc network using multicast monitoring mobile agent**", In International Journal of Internet Protocol Technology, Vol.6, No.1, 2, pp. 18-26, DOI: 10.1504, IJIP.T.2011.040611, InderScience Publishers, 2011.

<http://www.inderscience.com>

25.S. Albert Rabara, S. Britto Ramesh Kumar, "**MPCS: Secure Account-based Mobile Payment System**", International Journal of Information Processing and Management (IJIPM), ISSN: 2093-4009, DOI: 10.4156, ijipm.vol1.issue1.7, Volume 1, Number 1, pp.59-69, Human and Sciences Publication, July 2010.

Link: <http://www.aicit.org>

26.S. Albert Rabara, S.Vijayalakshmi, **“Byzantine Behaviour(B²) Mitigating Midway Multicast Misbehaviour (M⁴) in Adhoc Network”**, International Journal of Network Security and its Applications, ISSN: 09752307, Elssn:09749330, Vol.2, No.3 pp. 119-130, July 2010.

Link: <http://www.doaj.org>

27.S. Albert Rabara, J. Ronald Martin, J. G. R. Sathiaselan **“MLSF: A Framework for Multi-Level Secure Composite Web Services”**, International Journal on Advances in Information Sciences and Service Sciences (AISS), Chengdu, China, Vol. 2, No. 4, ISBN: 978-1-60558-710-3, ISSN: 1976-3700, DOI: 10.1145, 1655925.1656030, July 9-11, 2010.

Link: <http://www.aicit.org>

28.S. Albert Rabara, **“Multi-Layer Security architecture for Wireless LANs in the Corporate Environment”**, In International Journal of Net work Security IJNS - 2006-01-25-2.

29.S. Albert Rabara, J. Gnana Jayanthi, **“Performance Analysis of Addressing, Interoperability and Inter-Mobility Management Architecture Between IPv4 and IPv6 Networks (AIMM-I46)”**, International Journal of Communication and Computer, USA ISSN: 1548-7709.

30.S. Albert Rabara, S. Britto Ramesh Kumar **“An End-to-End Secure Mobile Payment System using Public Key Infrastructure”**, Journal of Algorithms and Computational Technology (JACT), ISSN: 1748-3018, Multi-Science Publishing Co. Ltd., United Kingdom, 2011.

31.S. Albert Rabara, S. Britto Ramesh Kumar, **“An Architectural Framework for the development of Secure Mobile Payment System”**, Journal of Algorithms and Computational Technology (JACT), ISSN: 1748-3018, DOI: 10.1260, 1748-3018.4.4.443, Volume 4, Number 4, pp.443-462, August 2010.

Link: <http://runners.ritsumei.ac.jp>

Link: <http://multi-science.metapress.com>

32.S. Albert Rabara, S. Britto Ramesh Kumar, **“An Architectural Design for Secure Mobile Remote Macro-Payments”**, Journal of Next Generation Information Technology (JNIT), ISSN: 2092-8637, DOI: 10.4156, jnit. vol1. Issue. 2.7, Volume 1, Number 2, pp.75-84, Human and Sciences Publication, December 2010.

Link: <http://www.aicit.org>

- 33.S .Albert Rabara, Rev.Dr.R. Rajarathinam SJ, **“ICT Enabled teaching, Learning and knowledge Transfer Model for Higher Education Towards Building a Knowledge Society”**, In RETELL – An Interdisciplinary Research Journal, ISSN 0973-404X, Vol.9, No.1, pp.54-59, 2009.
- 34.S. Albert Rabara, S. Kuppuswami, Paul Rodrigues and S. V. Kashmir Raja, **"C++ Extensions to Parallelism: A Survey,"** Journal of Computer Science and Informatics, Vol.29, No.4, pp. 8-22, 1999.

IEEE Xplore

Link: <http://ieeexplore.ieee.org>

- 35.Daisy Premila Bai T, Vimal Jerald A, **“An Adaptable and Intelligent Secure Smart Card Design Using Elliptic Curve Cryptography”**, Communicated to 9th International Conference on Communication Systems and Networks (COMSNETS), ACM, IEEE, 2016.
- 36.S. Albert Rabara, T. Daisy Premila Bai, K. Michael Raj, **“Elliptic Curve Cryptography based Security Framework for Internet of Things (IoT) Enabled Smart Card”**, IEEE International Conference WCCCT-2017, 43-46, 978-1-5090-5573-9/16.
- 37.S. Albert Rabara, J. Ronald Martin, K. Michael Raj, **“A Secure Architecture for Mobile Web Service (SAMWS)”**, IEEE International Conference WCCCT-2017, 207-211, 978-1-5090-5573-9,16.
- 38.S. Albert Rabara, D. Akilandeswari, T. Daisy Premila Bai, **“Enhanced Security Architecture for IPv6 Transition”**, IEEE International Conference WCCCT-2017, 61-64, 978-1-5090-5573-9,16.
- 39.S. Albert Rabara, A. Vimal Jerald, Daisy Premila Bai **“Algorithmic Approach to security Architecture for Integrated IoT Smart Services Environment”**, IEEE International Conference WCCCT-2017, 24-29, 978-1-5090-5573-9/16.
- 40.S. Albert Rabara, Amutha J, **“An Integrated Inter-Mobility IPv4/IPv6 Address Translation Architecture for Corporate Networks”**, IEEE Sponsored 9th International Conference on Intelligent Systems and Control (ISCO 2015) in association with National University of Kaohsiung-Taiwan, Oakland University-USA, IEEE Computational Intel,0, 103-109, 978-1-4799-6479-6.
- 41.S. Albert Rabara, Daisy Premila Bai T, **“Design and Development of Integrated, Secured and Intelligent Architecture for Internet of Things and Cloud Computing”**, International Conference on Future Internet of Things and Cloud, IEEE Computer Society, pp. 817-822, IEEE, ISBN:978-1-4673-8103-1, 15, DOI 10.1109, FiCloud.2015.23, 2015.

- 42.S. Albert Rabara, J. GnanaJayanthi, **“IPv6 Addressing Architecture in IPv4 Network”**, In IEEE Proceedings of the Second International Conference on Communication Software and Networks, ICCSN 2010, E-ISBN: 978-1-4244-5727-4, PP:461-465, Singapore, February-2010. DOI: 10.1109,ICCSN.2010.116 , INSPEC Accession Number: 11206839, ISBN: 978-1-4244-5726-7.
- 43.S. Albert Rabara,J. Gnana Jayanthi, A. Rex Macedo Arokiaraj, **“IPv6 MANET: An Essential Technology for Future Pervasive Computing”**, In IEEE Proceedings of the Second International Conference on Communication Software and Networks (ICCSN 2010), E-ISBN : 978-1-4244-5727-4, PP: 466-470, Singapore, February 2010. DOI: 10.1109, ICCSN.2010.117, INSPEC Accession Number: 11206840, ISBN: 978-1-4244-5726-7.
- 44.S. Albert Rabara, J.Gnana Jayanthi, **“IPv4 Addressing Architecture in IPv6 Network”**, In IEEE Proceedings of the Second International Conference on Advanced Computer Control (ICACC 2010), Volume.3, PP: 282–287, ISBN: 978-1-4244-5845-5, DOI: 10.1109, ICACC.2010.5486617, INSPEC Accession Number: 11502138, China, March 2010.
- 45.S. Albert Rabara,J. GnanaJayanthi, **“Next Generation Internet Protocol–Technical Realms”**, In IEEE Proceedings of the 3rd International Conference on Computer Science and Information Technology (ICCSIT 2010), ISBN: 978-1-4244-5537-9,DOI: 10.1109, ICCSIT.2010.5564916 , INSPEC Accession Number: 1152044, Volume. 9, PP: 394-399, China, July 2010.
- 46.S. Albert Rabara, J. G. R. Sathiaseelan, J. Ronald Martin, **“Multi-Level Secure Architecture for Distributed Integrated Web Services”**, In Proceedings 3rd IEEE International Conference on Computer Science and Information Technology (ICCSIT’10), ISBN: 978-1-4244-5537-9, DOI: 10.1109, ICCSIT.2010.5563785, INSPEC Accession Number: 11517926, vol. 8, pp. 180-184, China, 2010.
- 47.S. Albert Rabara, GnanaJayanthi J, **“Transition and Mobility Management in the Integrated IPv4 and IPv6 Network-A Systematic Review”**, In IEEE Proceedings of the International Conference on Electronics and Information Engineering (ICEIE 2010), ISBN:978-1-4244-7679-4, E-ISBN:978-1-4244-7681-7, DOI:10.1109, ICEIE. 2010. 5559898, INSPEC Accession Number: 11515407, Volume.I, PP: V1 162 -166, Japan, August 2010.
- 48.S. Albert Rabara, Vijayalekshmi, **“Fending financial transaction from phishing attack”**, in the Trendz in Information Sciences & Computing (TISC), ISBN: 978-1-4244-9007-3 , DOI: 10.1109, TISC.2010.5714633 , INSPEC Accession Number: 11834396 , PP: 171-175 , December 2010.

49. S. Albert Rabara, S. Britto Ramesh Kumar, J. Ronald Martin, **“A System Model and Protocol for Mobile Payment Consortia System”**, In: Proceedings of the IEEE International Conference on Test and Measurement (ICTM'09), ISBN: 978-1-4244-4699-5, DOI: 10.1109, ICTM.2009.5413011, INSPEC Accession Number: 11139775, Volume 2, pp.438-442, Published in IEEE Xplore, 2009.
50. Dr. S. Albert Rabara, J. Ronald Martin, J. G. R. Sathiaselvan, **“Secured Framework for Academia (SFA) using Composite Web Services”**, Second International Conference on Semantic E-business and Enterprise Computing (SEEC'09), Tamil Nadu, India, pp. 213-216, ISBN: 978-81-907337-0-0, November 4-6, 2009.
51. Dr. S. Albert Rabara, Narendiran C, Rajendran N, **“Public key Infrastructure for Mobile Banking security”**, In Global Mobile Congress 2009, ISBN: 978-1-4244-5302-3, DOI: [10.1109](https://doi.org/10.1109), GMC.2009.5295898, INSPEC Accession Number: 10942968, pp. 1-6, Shanghai, 2009. Published in IEEE Xplore, 2009.
52. Dr. S. Albert Rabara, Britto Ramesh Kumar S, ArunGnana Raj A, **“A Framework for Mobile Payment Consortia System (MPCS)”**, In IEEE International Conference on Computer Science and Software Engineering (CSSE'08), ISBN : 978-0-7695-3336-0, DOI: [10.1109](https://doi.org/10.1109), CSSE.2008.1514, INSPEC Accession Number: 10426977, Vol.2, pp.43-47, Wuhan, China, Published in IEEE Xplore, 2009.
53. S. Albert Rabara, Veluchandhar, R.V. Jayakumar, M. Muthuvel, K. Balasubramanian, A. Karthi, Karthikesan, G. Ramaiyan, A. Deepa, **“A backup mechanism with concurrency control for multilevel secure distributed database systems”**, In Digital Information Management, 2008, ISBN: 978-1-4244-2916-5, DOI: 10.1109, ICDIM.2008.4746744, INSPEC Accession Number: 10454145, pp.57-62, Published in IEEE Xplore, Third International Conference on 13-16 Nov. 2008, ICDIM 2008.
54. Dr. S. Albert Rabara, Narendiran C., Rajendran, N., **“Performance evaluation on end-to-end security architecture for mobile banking system”**, In Wireless Days, 2008. WD '08. ISBN: 978-1-4244-2828-1, DOI: 10.1109, WD.2008.4812913, INSPEC Accession Number: 10571306, pp. 1 - 5, Published in IEEE Xplore, 1st IFIP, 24-27 Nov. 2008.
Cited By: Neetesh Saxena and Narendra S. Chaudhari, Department of Computer Sc. & Engineering, Indian Institute of Technology, Indore, India.
55. S. Albert Rabara, N. Rajendran, Pushap Kamal, Debabrata Nayak, **“WATS-SN: A Wireless Asset Tracking System using Sensor Networks”**, In Proceedings of “IEEE International Conference on Personal Wireless Communications (ICPWC

2005)", ISBN : 0-7803-8964-6 , DOI: 10.1109, ICPWC.2005.1431340 , INSPEC Accession Number: 8382772 pp. 237-243, New Delhi, India , January 2005.

56. S. Albert Rabara, N. Rajendran, V. P. Gulati, **"Multi-Layered Security Architecture for Wireless LANs in the Corporate Network"**, In e-Proceedings of IEEE International Conference on Enabling Technologies for Smart Appliances ETSA 2005, Hyderabad, January, 2005.
57. S. Albert Rabara, N. Rajendran, V. Madhav, V. P. Glati, **"Reducing Delay During Handoff in Multi-Layered Security Architecture for Wireless LANs in the Corporate Network"**, Proceedings of the IEEE International Conference on Wireless Communication, Networking and Mobile Computing, Wuhan, China, ISBN : 0-7803-9335-X , DOI: 10.1109, WCNM.2005.1544230 , INSPEC Accession Number: 8775585 , Vol 2. , pp.1038-1043, 2005.
58. S. Albert Rabara, N. Rajendran, V. P. Gulati, and K Yugandhar, **"MPLS Architecture for Service Provider"**, Proceedings of IEEE International Conference on E-business and Telecommunication Networks ICETE 2004, Vol. 2, pp. 183-190, Setubal, Portugal, August, 2004.
59. S. Albert Rabara, Paul Rodrigues, S. Kuppuswami and S. V. Kasmir Raja, **"MAMOOS (Multiple Abstraction Model for Object Oriented Systems)"**, Proceedings of the IEEE International Conference on Networking India and the World (CNIW'98), pp. 207-211, Ahmedabad, India, Dec.1998.

Springer Link

Link: <http://www.springerlink.com>

60. Dr. S. Albert Rabara, J. Amutha, R. Meenakshi Sundaram, **"An Integrated Secure Architecture for IPv4/IPv6 Address Translation Between IPv4 and IPv6 Networks"**, Advances in Intelligent Systems and Computing, Springer, Vol. 380, 669-679, 978-81-322-2522-5.
61. Dr. S. Albert Rabara, J. Gnana Jayanthi, J. Felicita, Arun Gnanaraj, A, Manimozhi P **"Financial Transactions Over Wired and Wireless Networks: Technical Perspective, Lecture Notes in Mechanical Engineering"**, Springer Science Publications, pp 759-765, 2012, ISBN9788132210061, DOI: 10.1007, 978-81-322-1007-8_72, Library of Congress Control Number – 2012954499.
62. Dr. S. Albert Rabara, Gnana Jayanthi J, **"Performance Analysis of Addressing, Interoperability and Inter-Mobility Management Architecture Between IPv4 and IPv6 Networks"** (AIMM-I46), Second International Conference on Computer Science, Engineering and Applications (ICCSEA-2012) , In : Advances in Computer Science, Engineering & Applications AISC, Springer Science Series, Vol.167, pp.405-414 , 2012, ISBN. 1548-7709, DOI: 10.1007, 978-81-322-1007-8_72.

63.S. Albert Rabara, S. Britto Ramesh Kumar, **“MPCS: An Account-based Secure Mobile Payment Consortia System for Educational Institutions”**, In Communications in Computer and Information Science, DOI: 10.1007/978-3-642-12214-9_105, Vol 70. , pp. 582-585, 2010.

Cited By: Vinu V. Das, R. Vijayakumar, Narayan C. Debnath, Janahanlal Stephen, Natarajan Meghanathan, Suresh Sankaranarayanan, P. M. Thankachan, Ford LumbanGaol, NesyThankachan.

64.S.AlbertRabara, J.GnanaJayanthi, **“IMM-I46: Inter Mobility Management for an Integrated IPv4 and IPv6 Networks”**, In Communications in Computer and Information Science, DOI: 10.1007, 978-3-642-12214-9_4, Vol. 70, pp.17-21, 2010.

65.S.AlbertRabara, Veluchandhar, **“Concurrency Control for Multilevel Secure Distributed Real Time Databases”**, In chapter 31, Lecture Notes in Electrical Engineering No 28, Springer Science Publications, DOI: 10.1007,978-0-387-85437-3_31, ISBN 978-0-387-84818-1, Vol 2, pp.325-337, Printed in USA, 2009.

ELSEVIER PUBLICATIONS

66. Dr.S. Albert Rabara, J.G.R. Sathiaseelan, Dr.S. Britto R. Kumar, **"Secure Architecture for Integrated Web Services"**, Global Congress on Science and Engineering (GCSE 2011), Dubai, UAE, Dec. 2011.

Link: <http://www.icimt.org>

All GCSE 2011 accepted papers will be published in the Procedia Engineering, (ISSN: 1877-7058, ELSEVIER), which will be indexed by SCOPUS, Ei Compendex and Thomson ISI Proceedings.

ACM Digital Library

Link: <http://dl.acm.org>

67.S. Albert Rabara, J Ronald Martin, **“Multi-Level Secure Architecture for Mobile Web Services using Intelligent Mobile Agents and Intelligent Content Filter”**, In Proceedings of the ACM International Conference on Advances in Mobile Computing and Multimedia (MoMM 2014), Kaohsiung, Taiwan, pp. 185-193, ISBN: 978-1-4503-3008-4, DOI: 10.1145, 2684103.2684136, December 8-10, 2014.

68.S. Albert Rabara, S. Britto Ramesh Kumar **“Performance Evaluation on Mobile Payment Consortia System”**, In Proceedings of the 3rd International Conference on Semantic E-Business and Enterprise Computing (SEEC'10), Towards Quality Driven Software Applications and Infrastructures, ISBN: 93-80697-10-4, pp.31-39, Excel India Publishers, India, 2010.

- 69.S. Albert Rabara, S. Britto Ramesh Kumar **“MPCS: An Account-based Secure Mobile Payment Consortia System for Educational Institutions”**, In Proceedings of the International Conference on Recent Trends in Business Administration and Information Processing (BAIP) (ISSN:1865-0929, ISBN:978-3-642-12213-2), Volume 70, pp.582–585, Springer-Verlag Publications, 2010.
- 70.S. Albert Rabara, J.GnanaJayanthi, **“IMM-I46: Inter Mobility Management for an Integrated IPv4 and IPv6 Networks”**, In Proceedings of the International Conference on Recent Trends in Business Administration and Information Processing (BAIP'2010), ISSN: 978-3-642-12213-2, CCIS 70, India, March 2010.
- 71.S. Albert Rabara, J.GnanaJayanthi **“IPv4Addressing Architecture in IPv6 Network”**, In Proceedings of the 2010 Second International Conference on Communication Software and Networks, (ICCSN '10), ISBN: 978-0-7695-3961-4, DOI: [10.1109, ICCSN.2010.116](https://doi.org/10.1109/ICCSN.2010.116) , 2010.
- 72.S Albert Rabara, J.G.R.Sathiaseelan, J.Ronald Martin, **“Multi-level Secure Framework (MLSF) for Composite Web Services”**, In ACM International Conference on Computer Sciences and Information Technology (ICCIT'09), vol.2, pp.580-585, ISBN: 978-1-60558-710-3, DOI: 10.1145, 1655925.1656030, Seoul, Korea, Published in ACM Portal, 2009 and In ICIS '09 Proceedings of the 2nd International Conference on Interaction Sciences: Information Technology, Culture and Human. 2009.
- 73.S Albert Rabara, S.Britto Ramesh Kumar, J.Ronald Martin, **“MPCS: A Secure Mobile Payment Consortia System for Higher Educational Institutions”**, In ACM International Conference on Computer Science and Convergence Information Technology (ICCIT),ISBN:978-1-60558-710-3, DOI: 10.1145, 1655925.1656029, Vol.2, PP.571-579, Seoul, Korea, Published in ACM Portal, 2009 and In ICIS '09 Proceedings of the 2nd International Conference on Interaction Sciences: Information Technology, Culture and Human. 2009.

Cited by : SungwonSohn, Ling Chen, Soonwook Hwang, Kyungeun Cho, Shigeo Kawata, Kyhyun Um, Franz I. S. Ko, Kae-Dal Kwack, Jong Hyung Lee, Gang Kou, Kiyoshi Nakamura, AlvisCheuk M. Fong, Patrick C. M.

- 74.S.AlbertRabara, J.GnanaJayanthi, N.Rajendran, **“Improved IPv6 Mobility Architecture in IPv4 Networks”**, Proceedings of 7th WSEAS International Conference on Electronics, Hardware, Wireless and Optical Communications, Cambridge, UK, ISSN No. 1790-5117, ISBN 978-960-6766-40-4, pp. 196-201, 2008.

75. S. Albert Rabara, J. GnanaJayanthi, N. Rajendran **"IPv6 Mobility Architecture in IPv4 Networks"**, In Proceedings of the International Conference on Electronics, Hardware, Wireless and Optical Communications, Cambridge, U.K, ISBN-ISSN-1790-5117, 978-960-6766-40-4, pp.196-201, Published in ACM Portal, ACM, 2008.
76. S. Albert Rabara, Veluchandhar, **"Evolving a Model of Transaction Management with Concurrency Control for Multilevel Secure Distributed Database Management System"**. In proceedings of the International Conference on Applied Computing ISBN-ISSN: 1750-5117, 978-960-6766-18-3, Venice, Italy, Vol 7. pp. 127-133, published in ACM Portal, ACM, 2008.
77. S. Albert Rabara, C. Narendiran, N. Rajendran, **"An Approach to Design of Software Architecture for Mobile Commerce User Interface Development"** has been presented and published in the Proceeding of International Conference on Global Software Development, by ACM/ACS Chapter, Coimbatore, India, July 2007.
78. S. Albert Rabara, Veluchandhar Vadivelu, **"Evolving a model of transaction management with concurrency control for multilevel secure distributed real-time database systems"**, In ACS'07 Proceedings of the 7th WSEAS International Conference on Applied Computer Science, ISBN: 978-960-6766-18-3. Volume 7, 2007.

Proceedings of the International Conferences

79. S. Albert Rabara, J. Ronald Martin, Britto Ramesh Kumar **"Architecture for Integrated and Intelligent Security for Mobile Web Services"**, Proceedings of the First International Conference on Intelligent Infrastructure, Computer Society of India, Kolkata, India, Tata McGraw-Hill Publication, pp. 216-222, ISBN-13: 978-1-25-906170-7, December, 2012.
80. S. Albert Rabara, S. Britto Ramesh Kumar, **"An Architectural Framework for the Development of Payment Applications in an Integrated Environment"**, In Proceedings of the International Conference on Software Engineering Research and Practice (SERP), ISBN:1-60132-160-0, WORLDCOMP'10, Volume 1, pp.167-173, USA, 2010.

Link: <http://www.bibsonomy.org>

81. S. Albert Rabara, J. G. R. Sathiaselan, J. V. Ronald Martin, **"Secure Architecture for Integrated Web Services"**, In Proceedings of 2010 International Conference on Computer and Software Modeling (ICCSM 2010), pp. 275- 279, ISBN: 978-1-4244-9097-4, Philippines, 2010.

Link: <http://www.iccsm.org>

- 82.S. Albert Rabara, J.GnanaJayanthi **“An Outlook Scenario of the Wireless Communication Technology”**, In Proceedings of the Second National Conference on Advanced Computing (NCAC'10), ISSN:0975-0290, PP:75-78, Coimbatore, India, September 2010.
- 83.S. Albert Rabara, J. G. R. Sathiaseelan **“Secure Framework for Composite Web Services”**, In Proceedings of 2010 2nd International Information and Multimedia Technology (ICIMT 2010), pp. 141- 145, IEEE Press, ISBN: 978-1-4244-8882-7, Hong Kong, 2010.
- 84.S. Albert Rabara, S. Britto Ramesh Kumar **“MPCS: An Account-based Secure Mobile Payment Consortia System for Educational Institutions”**, In ICIS '09 Proceedings of the 2nd International Conference on Interaction Sciences: Information Technology, Culture and Human, DOI: [10.1145/1655925.1656029](https://doi.org/10.1145/1655925.1656029), ISBN: 978-1-60558-710-3, 2009.
- 85.S Albert Rabara, **“Convergence Technology for Next Generation Networks : Semantic Web and Cyber Security”**, In Proceedings of the Second International Conference on Semantic E-business and Enterprise Computing (SEEC'09), pp.37-38, ISBN:978-81-907337-0-0, Tiruchirappalli, India, 2009.
- 86.S Albert Rabara, J.G.R.Sathiaseelan, and J.Ronald Martin, **“Secured Framework for Academia (SFS) using Composite Web Services”**, In Proceedings of the Second International Conference on Semantic E-business and Enterprise Computing (SEEC'09),pp.213-216, ISBN:978-81-907337-0-0, Tiruchirappalli, India, 2009.
- 87.S.Albert Rabara, S.Britto Ramesh Kumar, A. Arun Gnana Raj, **“MPCS: Mobile Payment System and Services”**, In proceedings of the International Conference on Managing Next Generation Software Applications (MNGSA'08), ISBN : 978-81-907870-0-0, pp.953-961, Sri, Garuda Publications, Coimbatore, 2008.
- 88.S.AlbertRabara, C.Narendiran, S.Britto Ramesh Kumar, A.ArunGnana Raj, **“A Study of Mobile Payment System”**, In proceedings of the International Conference on Semantic E-Business and Enterprise Computing (SEEC'08), ISBN : 978-81-907337-0-0, pp. 153-162, Cochin, 2008.
- 89.S.AlbertRabara, Veluchandhar, **“Simulation Studies on Concurrency Control Model for Multilevel Secure Mobile Database Systems”**. In Proceeding of the International Conference on Electronics, Hardware, Wireless and Optical Communication (EHAC '08, ISBN: 978-960-6766-40-4), University of Cambridge U.K, pp 177-181, 2008.
- 90.S. Albert Rabara, SNarendiran, C. Rajendran, N, **“Public key Infrastructure for Mobile Banking security”**, In E-proceeding, World Wireless Congress, WWC'2008, San Francisco, USA, ISSN: 1558-7835, May 2008.

91. S. Albert Rabara, Veluchandhar Vadivelu, **"A Model for Transaction Management with Concurrency Control for Multilevel Secure Distributed Real-time Database Systems"**, In Proceedings of the WSEAS International Conference on Applied Computer Science, Italy, Vol. 2, pp. 127 – 133, 2007.
92. S. Albert Rabara, N. Rajendran, K. SathaKoteswaraRao, **"Improving Route Optimization in Mobile IP"**, Proceedings of the EAIT 2006, International Conference on Emerging Applications of Information Technology, Kolkatta pp. 235-238, 2006.
93. S. Albert Rabara, N. Rajendran, V. P. Gulati, and K. Yugandhar, **"Modeling and Performance study of MPLS VPN"**, In Proceedings of the International Conference on Communications in Computing, Las Vega, USA, pp.91-96, 2005.
Cited by: Brian J. d Auriol, Hamid R. Arabnia.
94. S. Albert Rabara, N. Rajendran, DebabrataNayak, V. P. Gulati, on **"Multi-layered Security Architecture for Wireless LANs"**, Proceedings of Sixth World Wireless Congress, Sanfrancisco, USA, May 24-27 –2005.
95. S. Albert Rabara, **"Multi-Layer Security architecture for Wireless LANs in the Corporate Network"**, In Proceedings of World Wireless Congress, Palo Alto, USA, PP. 202-208, 2005.
96. S. Albert Rabara, Paul Rodrigues, S. Kuppuswami and S.V. Kasmir Raja, **"Concurrency in the Class Hierarchy Indexing Technique - An Object Oriented Approach"** Proceedings of the ROVPIA'99, International Conference on Robotics Vision and Parallel Processing for Automation, Vol.2, pp. 469-476, Malaysia, July 1999.

Proceedings of the National Conferences

97. S. Albert Rabara, J.GnanaJayanthi, **"IEEE 802.11 Family: A Survey on Present and Future Scenario"**, In Proceedings of the Second National Conference on Advanced Computing (NCAC '10), ISSN:0975-0290, PP:79-86, Coimbatore, India, September, 2010.
98. S. Albert Rabara, J. GnanaJayanthi, D.ChristySujatha, **"Quality of Service (QoS) in IEEE 802.11 WLAN: The Present and Future Scenario"**, In Proceedings of the National Conference on Advanced Pattern Mining and Multimedia Computing, APMMC2010, ISBN: 978-93-80043-83-8, PP: 525-533, National Institute of Technology, Tiruchirappalli, South India, February-2010.

Link: <http://arnetminer.org>

99. S. Albert Rabara, J. GnanaJayanthi, **“IPv6 Mobility Architecture in IPv4 Networks”**, In Computer Science and Communication Technology, Proceedings of the NCSC-T-2007, pp. 93-97, Tiruchirappalli, India, Feb.2007.
100. S. Albert Rabara, N. Rajendran, V. Madhav, V. P. Gulati, **“Improving QOS by using Proactive Caching Algorithm in Wireless LAN”**, Proceedings of National Conference on Mobile Computing, pp. 79-85, Chennai, Feb 2005.
101. S. Albert Rabara, N. Rajendran, V. Madhav, V. P. Gulati, **“Authentication Issues in Wireless LAN”**, Proceedings of National Conference on Issues and Trends in Wireless Networks, ITWINS 2004”, pp. 256-262, Patiala, Dec 2004.
102. Albert Rabara, N. Rajendran, D Nayak, V. P. Gulati, **“Security Issues in Wireless LAN”**, Proceedings of National Conference on Hardware and Software Solutions for Secured Networks, pp. 21-30, Hyderabad, Jan 2004.
103. S. Albert Rabara, Paul Rodrigues, S. Kuppaswami and S.V. Kasmir Raja, **“Concurrency in IB-Tree for OODBMS”** Invited Paper, Proceedings of XXXVI Annual Conference of CSI 2001, pp. 1.28-1.45, Kolkatta, India, 22-24 Nov 2001.
104. S. Albert Rabara, Paul Rodrigues, S. Kuppaswami and S. V. Kasmir Raja, **“Multiple Abstraction Model in a Distributed Environment”**, Proceedings of the First National Conference on Recent Trends in Advanced Computing, (NCRTAC-2000), pp. 11-16, Tirunelveli, India, Feb. 2000.
105. S. Albert Rabara, Paul Rodrigues, S. Kuppaswami and S. V. Kasmir Raja, **“An Approach to Improve Concurrency in Class Hierarchy Tree”**, Proceedings of the COMPUTING'99, Northern Regional Conference of Computer Society of India, pp. 1-5, Indore, Feb 1999.
106. S. Albert Rabara, Paul Rodrigues, S. Kuppaswami and S.V. Kasmir Raja, **“Role Based Interface Model”**, Proceedings of the OBJECT'98, First National Conference on Object Technology, Pune, India, Feb 1998.
107. S. Albert Rabara, N. Rajendran, Pushap Kamal, DebabrataNayak, **“Securing the Critical IT Infrastructure”**, Proceedings of National Workshop on Cryptology 2004, pp. 251-257, Kollam, India, Sep 2004

Tata McGraw-Hill Publishers

108. Dr.S.Albert Rabara, **“Architecture for Integrated and Intelligent Security for Mobile Web Services Conference on Intelligent Infrastructure”** McGraw Hill International Publications, Vol. 1, pp.216-222, ISBN:978-1-25-906170-7.2012.
109. S. Albert Rabara, J.Gnana Jayanthi, N.Rajendran, **“SIM-Based Authentication for the Integrated GPRS-WLAN Networks”**, In Affordable Computing, Editors : Debasia Jana and Diptiprasad Mukherjee, pp. 41-45, ISBN: 0-07-062171-3, Tata McGraw-Hill Publishing Company Limited, New Delhi, 2006.

110. S. Albert Rabara, C. Narendran, **“Secured User Interface Algorithm for Mobile Banking Framework”**, In Affordable Computing, Editors : Debasia Jana and Diptiprasad Mukherjee, pp. 87-90, , ISBN: 0-07-062171-3, Tata McGraw-Hill Publishing Company Limited, New Delhi, 2006.

111. S. Albert Rabara, Veuchandar Chandra Mohan, **“Multilevel Secure Concurrency Control Model for Financial Applications”**, In Affordable Computing, Editors : Debasia Jana and Diptiprasad Mukherjee, pp. 95-99, , ISBN: 0-07-062171-3, Tata McGraw-Hill Publishing Company Limited, New Delhi, 2006

Macmillan Publishers

112. S. Albert Rabara, C.Narendran, N.Rajendran, **“Security Framework Architecture for Mobile Banking”**, In **Mobile Ubiquitous and Pervasive Computing**, Editors: V.Radhakrishnan et al., vol. 2, ISBN 10:0230-63011-1, pp. 114-120, Macmillan India Publications Ltd, New Delhi, 2006.

Allied Publishers

113. S. Albert Rabara, S. Kuppuswami, Paul Rodrigues and S. V. Kasmir Raja, **“A New Method for Concurrency in B-Tree and IB Tree”**, (Ed. R.M.Vasagam), **“Society and the Digital Millennium”**, Allied Publishers Ltd., Chennai, pp. 115-225, 2000.

Dr. S. Albert Rabara - Resource Sharing (2007-2018)

- **Member**, Indian Society of Systems for Science and Engineering
- **Advisory Board Member**, National Seminar on Innovative Computing Technologies, Holy Cross College (Autonomous), Tiruchirappalli, India, 8th January 2018.
- **Reviewer**, Lecture Notes in Mechanical Engineering, Published by Springer Science, 2012, ISBN9788132210061, Library of Congress Control Number – 2012954499.
- **Delivered a Talk** in All India Radio on Mobile Commerce, Broadcasted on 13-12-2012.
- **Member, Advisory Committee**, International Conference on Emerging Trends in Science, Engineering and Technology in Association with IEEE and Springer, J.J. College of Engineering and Technology, Tiruchirappalli-9, India, 13th -14th Dec' 2012.
- **Chair-Person**, Technical Session, Theme 1: **“Information and Communication Technology”**, International Conference on Emerging Trends in Science, Engineering and Technology in Association with IEEE and Springer, J.J. College of Engineering and Technology, Tiruchirappalli-9, India, 13th Dec' 2012.
- **Organising Secretary** – UGC Sponsored National Conference on **“The Role of ICT in Higher Education : Quality Accessibility and Security”**, St. Joseph's College (Autonomous), Tiruchirappalli, 29-30 January 2010
- **Member** - International Organising Committee – 6th International Conference on Digital Content, Multimedia technology and its Applications (IDC 2010) – August 2010, Seoul, Korea.
- **Member** - International Organising Committee – 6th International Conference on Networked Computing and Advanced Information Management (NCM2010) – August 2010, Seoul, Korea.
- **Member** - International Organising Committee – 4th International Conference on New Trends in Information Science and Services (NISS2010) May 2010, Gyeongju, Korea.

- **Member** - International Organising Committee – International Conference on Computer Science and Convergence Information Technology (ICCIT'09), November 2009, Seoul, Korea.
- **Member** - International Organising Committee – International Conference on Semantic E-Business and Enterprise Computing (SEEC 2009) – November 2009, Tiruchirappalli India.
- **Member** – Board of Studies – Department of Computer Science, Bishop Heber College (Autonomous), Tiruchirappalli – 2009-2011.
- **Member** – Board of Studies – Department of Computer Science – St. Xavier's College (Autonomous), Tiruchirappalli – 2009 -2011.
- **Member** – Board of Studies – Department of Computer Applications – NGM College (Autonomous), Pollachi – 2009 -2011.
- Delivered a Talk on **“Internet, Information and Communication Technology”**, Orientation Course in Computer Science, Academic Staff College, Bharathidasan University, Tiruchirappalli, 14 May 2009.
- Delivered a Talk on **“Research and Innovation”**, Faculty Orientation Programme, Holy Cross College (Autonomous), Tiruchirappalli, 17 June 2009.
- Delivered a Talk on **“The Role of ICT in Teaching, Learning”**, Refresher Course on ICT, Academic Staff College, Pondicherry University, Pondicherry, 6 July 2009.
- Conducted One Day Orientation Programme on **“Computers and Communication Technology-Today”**, Department of Computer Science, Loyola College, Vettavalam, 1 October 2009.
- Delivered an Invited Talk on **“ICT Enabled Teaching and Learning in Higher Education”**, National Conference on Contemporary issues in Quality Assurance in Higher Education, St. Anne's Degree College for Women, Bangalore, 25 September 2009
- Delivered an Invited Talk on **“Convergence Technology for Next Generation Networks: Semantic Web and Cyber Security”**, Second International Conference on Semantic E-business and Enterprise Computing (SEEC'09), Bishop Heber College (Autonomous), Tiruchirappalli, 4 November 2009 .
- Delivered a Talk on **“Advanced Information and Communication Technology”**, Science Seminar for Rural School Teachers, Organised by the Extension

Department – SHEPHERD- St. Joseph's College(Autonomous), Tiruchirappalli,
21 January 2010.

- **Member**, Governing Council, Annai, Vailankanni College of Engineering, Kanyakumari
- **Member**, Board of Studies, Govt. Arts College for Women, Kumbakonam
- Delivered a Talk on **“Information and Communication Technology-Today”**, Orientation Course in Computer Science, Academic Staff College, Bharathidasan University, Tiruchirappalli, 3 June 2008.
- **Member**, Board of Studies - attended Board of Studies Meeting, Department of Computer Science, NGM College (Autonomous), Pollachi, 28 June 2008
- Chief Guest, Inaugural Function of Computer Science Association and Delivered a talk on **“Information Technology”**, Trinity College for Women, Namakkal, 22 July 2008.
- Delivered a Talk on **“Information and Communication Technology”**, Refresher Course in Computer Science, Academic Staff College, Bharathidasan University, Tiruchirappalli, 4 August 2008.
- Delivered a Talk on **“Communication Security”**, Refresher Course in Computer Science, Academic Staff College, Bharathidasan University, Tiruchirappalli, 10 August 2008.
- Delivered an Invited Talk on **“Network Security”**, UGC Sponsored National Conference on Network Security, Department of Computer Science, S.T. Hindu College, Nagercoil, , 25 September 2008
- **Chief Guest**, Valedictory Function, QC Bytes-2008, Kurinji College of Arts and Science, 3 October 2008
- Attended NAAC sponsored National Conference on **“Quality Enhancement and Sustenance in Higher Educational Institutions through Six Sigma Quality Strategy”**, St. Joseph's College , Tiruchirappalli, 23-24 October 2008
- **Member**, Board of Studies, Tamil Nadu Open University, Chennai - attended Board of Studies Meeting, 3 December 2008

- **Resource Person**, Teacher Orientation Programme and Delivered a talk on **“Technology Enabled Teaching and Learning”**, Annai, Vailankanni College of Engineering, Kanyakumari, 27 December 2008
- Delivered a Talk on **“ ICT for Science Teaching”**, Tiruchy District Secondary School Science Teachers Training Programme, St. Joseph’s College, Tiruchirappalli, 8 January 2009
- Attended UGC sponsored National Conference on **“Higher Education and Nation Development - The Challenges of Expansion, Quality and Inclusion”**, St. Joseph’s College, Tiruchirappalli, 30-31 January 2009
- Delivered a Talk on **“ICT Enabled Teaching and Learning”**, Orientation Programme for Shift-II Staff, St. Joseph’s College, Tiruchirappalli, 14 February 2009.
- Delivered an Invited Talk on **Wireless and Mobile Technology**, National Conference on Computer and Communication, Sri Vasavi College, Erode, 23 Feb 2008
- Delivered an Invited Talk on **Communication Technology and Information Security**, State Level Seminar on Mobile Communication Technologies, M.K.Jain College for Women, Vaniyambadi, 22 Feb 2008
- Delivered a Talk on **Wireless and Mobile Communication**, National Conference on Recent Innovations in Information Technology, School of Computer Science, Thanthai Hans Rover College, Perambalur, 20 Feb 2008
- Delivered a Talk on **e-Learning Resources**, Seminar on e-Learning Resources for Higher Academic Research, St. Joseph’s College (Autonomous), Tiruchirappalli, 2 Feb 2008
- **Resource Person**, Refresher Course for College Teachers, Department of Computer Science, Bharathidasan University, Tiruchirappalli, 19 Jan 2008
- Delivered a Talk on **Information Security**, Electronics and Communication Engineering Association, SASTRA University, Tanjore, 21 Aug 2007
- Conducted one day Workshop on **Research and Innovation for Teaching Staff**, J.A.College for Women(Autonomous), Periyakulam, 18 August 2007

- Delivered a Talk on **Wireless and Mobile Technology**, Seminar-TECHNO'07, Department of Computer Science, Idhaya College for Women, Sarugani, 13 August 2007
- Delivered a Talk on **Research Methodology for Teaching Staff**, Holy Cross Evening College (Autonomous), Tiruchirappalli, 30 July 2007
- Delivered an Invited Talk on **Network Security**, TNSCST Sponsored State Level Seminar on Recent Advances in Computer Science, VHNSN College, Virudhunagar, 29 July 2007
- **Member, Organising Committee**, National Conference on Recent Innovations in Information Technology, School of Computer Science, Thanthai Hans Rover College, Perambalur.
- **Member, organizing Committee**, Seminar on e-Learning Resources for Higher Academic Research, Dept of Library and JCICT, St. Joseph's College (Autonomous), Tiruchirappalli.
- **Member, Editorial Board**, Jamal academic Research Journal, Jamal Mohamed College (Autonomous), Tiruchirappalli.
- **Member, Editorial Board**, ANJAC Journal of Sciences, AyyaNadar Janaki Ammal College (Autonomous), Sivakasi.
- **Member Board of Studies**, Dept. of Computer Science, Bishop Heber College (Autonomous), Tiruchirappalli.
- **Bharathiayar University Nominee**, Board of Studies, NGM College, Pollachi.
- **Visiting Professor**, M.Tech Programme, Computer Science, Bharathidasan University, Tiruchirappalli.
 - Organised Training Programme on **Computer Literacy and Internet for Rural School Teachers and Panchyat Officials** in collaboration with JCICT & SHEPHERD ExtnDept, 27.07.2006.
 - **Established Internet Kiosk in collaboration** with BSNL Tiruchy, Science Exhibition, Govt. High School, Alathur, 5-7 Dec. 2006

- **Team Coordinator**, Online Cataloguing, Software Development Team, JCICT, SJC Library and NICE, July 2007.
- **Organising Secretary**, National Conference on Computer Science and Communication Technology, Dept. of Computer Science, St. Joseph's College, Tiruchirappalli, 16, 17 Feb. 2007.
- **Editor**, Jamal Academic Research Journal (JARC), Published by Jamal Mohammed College, Tiruchirappalli.
- **Editor**, Computer Science and Communication Technology, Proceedings of the NCSCT-2007, Dept. of Computer Science, St. Joseph's College, Tiruchirappalli.
- Delivered a talk on **"Usage of e-Resources"**, Work shop on Research Methodology in History, Dept. of History, St. Joseph's College, Tiruchirappalli, 30 Nov. 2006.
- Delivered a talk on **"Wireless and Mobile Technology"**, Thantahi Hans Rover College, Perambalur, 5 Feb. 2007.
- **University Representative**, Board of Studies, Computer Science, ADM College for Women, Nagapattinam.
- **Subject Expert**, Board of Studies, Computer Science, Bishop Heber College(Autonomous), Tiruchirappalli
- **Guest Faculty**, M.Tech., Programme, Computer Science, Bharathidasan University, Tiruchirappalli.

RESEARCH GUIDANCE - PH.D

A. List of Ph.D. Scholars – Degree Awarded

No.	Ph.D Scholars	Year of Award	Title of Thesis
1.	N. Rajendran	Sept 2006	Designing Multilevel Security Architecture for WLAN in a Corporate Environment
2.	R. Sandhanadurai	Apr 2007	Software Architecture For the Design of Databases
3.	Veluchandhar	May 2010	Methodology to Enhance the Performance of Concurrency for Multilevel Secure Distributed Database System.
4.	S. Britto Ramesh Kumar	June 2011	An Architecture for Secure Mobile Payment System Using Public Key Infrastructure.
5.	C. Narendiran	Dec 2009	Secured Software Architecture for Mobile Banking System using Public Key Infrastructure.
6.	J. Gnana Jayanthi	Sept 2012	An Architecture for Integrated Addressing, Inter-Mobility and Inter Operability Management between IPv4 and IPv6 Networks.
7.	J.G.R. Sathiaseelan	Feb 2013	Multi-Level Secure Architecture for Composite Web Services Using Public Key Infrastructure.
8.	R. Meenakshi Sundaram	June 2015	An integrated Next Generation IP MPLS Architecture for Seamless Mobility, Security and QoS.
9.	T. Daisy Pramila Bai	Dec 2017	An Intelligent and Adaptable Secure Smart Card Architecture for Internet of Things and Cloud Computing.
10.	J.V. Ronald Martin	June 2017	An Integrated And Intelligent Secure Architecture For Mobile Web Services.

RESEARCH GUIDANCE - M.PHIL

B. List of M. Phil Scholars Guided

No.	Research Scholars	Year	Title of Dissertation
1.	J. Mary Swomi Sylaja	Aug-2017	Car Parking System Using ECC Based Cloud Storage
2.	G.Vinothini	Aug-2017	ECC-ANN: Enhancing Security and Effective Light Weight Routing against DoS Heavy Weight Attacks in I
3.	K. Michael Raj	Aug- 2015	Secured Password using Elliptic Curve Cryptography
4.	G. Subamangala	Aug-2015	Study of Secure Quantum Key Distribution
5.	G. Janet Mariammal	Aug-2015	Implementation of Block Cipher Algorithms
6.	K.S. Vaishanavi	Aug-2015	Block Cipher Mode of Cryptographic Algorithms
7.	B. Bhavayagayathri	Aug-2015	Integrated Security Mechanism for Trusted Computing
8.	S. Bosco Romero	Aug- 2014	Study And Implementation Of RSA Algorithm In Android Platform
9.	A. Angel Mary	Aug - 2013	-
10.	G. Murugan	Aug - 2013	-
11.	S. Sooriya	Aug - 2013	A Certified Document Delivery System Without A Trusted Intermediate
12.	S. Vigneshwaran	Aug - 2013	The Application Of The Encryption Using Network Security
13.	V. Subbulakshmi	Aug-2012	Client Side Security Attacks and Prevention Methods
14.	F. Silvia Amala Rani	Aug-2012	Security Issues for Wireless Sensor Networks
15.	J. Vensy	Aug-2012	General Study on Wireless Sensor Networks
16.	T. Jalal Singh	Aug-2012	Security for Mobile Distributed Database
17.	A. Manoj britto	Aug-2011	Session Hijacking prevention Tool in Wireless Networks
18.	A. Meenakshi sundaram	Aug-2011	Security Issues in Mobile Social Networks
19.	K. Agnes Arockia Juliet	Aug-2011	Security Issues in Mobile DataBase
20.	B. Kokilavani	Aug-2010	Security in Web services- a survey
21.	F. Arockiaraj gladius Johnson	Aug-2010	A Study on Encryption Algorithms
22.	S. Lakshmi Praba	Aug-2009	Security Encryption algorithm analysis and Research

23.	Mangalsaitirkey	Aug-2009	A Comparative Study of Computer Viruses and Worms
24.	V. Kalpana	Aug-2008	Design of Mobile Adhoc Network using IPv6
25.	S. Bruntha	Aug-2008	Design of Adhoc Network using IPv6
26.	K.G. Mary	Aug-2007	A Method for Secured Concurrency Control in B+ - Tree
27.	D. Vinoth	Aug-2007	A Study of Case based Reasoning System in Medical Diagnosis
28.	K. Indhumathi	Jun-2007	Concurrency Control Algorithm for B-Tree
29.	R. Rajalakshmi	Sep-2006	Security for Mobile Database
30.	K. Jayalakshmi	Sep-2006	Study of IPv4 and IPv6 Routing
31.	R. Uma Sankari	Sep-2006	Study of IPv4 and IPv6 Security
32.	D. Ananthanayaki	Aug-2005	A new method for Multilevel Security for Object-Oriented Databases
33.	C. Balakrishnan	Aug-2005	A Study on concurrent Transactions in Multilevel Secured Object-Oriented Databases
34.	V. Chandra Mohan	Aug- 2003	Multilevel Security for Object Oriented Databases
35.	D. Sathiya	Aug-2003	Object Oriented Software Testing Using UML
36.	V.S. Anita Sofia	Nov-2003	Survey on Communication Networks
37.	D.J. Evanjaline	Nov-2003	Spatial Database System – A Survey
38.	S. Gayatri Devi	Nov-2003	Security Issues in Mobile Network – A Survey
39.	H. Vinodha	Nov-2003	Binary Tree Traversal – An Object Oriented Approach
40.	B. Gerald Marvin	Nov-2003	A study on Class Level Testing of Object Oriented Programs
41.	J.A. Marydeepa	Aug-2004	Path Dictionary Index For Query Processing
42.	R. Rathika	Aug-2004	A Method for Concurrency in B-Trees
43.	T.A. Sheela	Aug-2004	ADOME – AN Advanced Object Modeling Environment
44.	V. Johindranath Siva	Nov-2004	Modeling Web Pages Using UML
45.	Sr. A. Maria josephin	Nov-2004	Self Describing Cryptography through JAVA