Dr. Chokkalingam.SP
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Email: cho_mas@yahoo.com
Mobile No: +919840161575
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OBJECTIVE

To help student's development by encouraging their inquisitiveness, originality, creativity, meticulousness and to develop their understanding and appreciation in their field of studies. To achieve this objective, I do focus in each and every individual in the classroom.

EXPERIENCE

20+ years of experience include 19+ in Teaching and 1.5 years of Industrial Experience**.**

DESIGNATION

Program Director – CSE Department

ACADEMIC PROFILE

- **PhD in Anna University, Chennai May 2016.**
- **MTech (CSE)** at Dr.MGR University in the year of **May 2006** and secured **Gold Medal with 8.85 CGPA**.
- **MCA** (Master of Computer Applications) at Bharathidasan University in the year of **Apr 1999** with First Class.
- **BSC (Maths)** at Bharathidasan University in the year of Nov 1995 with First Class.

ORACLE CERTFIED PROFESSIONAL (OCP DATE : 29 MAY 2016)

- Oracle Database 11g: SQL Fundamentals I – Scored 66 out of 100.
- Oracle Database 11g: Administration I – Scored 78 out of 100.

MICROSFT CERTIFICATION

- Certified in **Microsoft .NET Framework**
- Scored **965** out of **1000**

PhD DISSERATION TITLE: DIAGNOSIS OF RHEUMATOID ARTHRITIS FROM LYMPHOCYTE AND CARPAL BONE IMAGES

The main objective of this research work is to develop algorithms that assist image processing and to frame decision rules to detect Rheumatoid Arthritis (RA) from lymphocyte and carpal bone images. RA is an inflammatory, autoimmune condition, which means it is caused by the body's immune system attacking itself. It affects the joints, tendons, bones and also changes shape and size of lymphocytes. To detect rheumatoid arthritis, features of a lymphocyte such as shape and size are required, which are derived using the image processing methods. The existing segmentation algorithms with static threshold are apt to segment the region of interest from the regular image only. Hence, segmentation with static threshold is not applicable for a lymphocyte image that has irregular shape.

This research work preferred a Wiener filter to remove the noise from the blood smear image and offered a dynamic threshold segmentation algorithm for segmenting a lymphocyte from its blood smear image. It is found that average values of dice similarity measurement, white count and black count are better than the existing methods namely gradient segmentation and global threshold method. A new feature extraction method called Min-Max algorithm is proposed to acquire the perimeter of the irregular lymphocyte. Decision rules are framed from the features such as perimeter, area, roundness, circularity and solidity extracted from the lymphocyte image to classify it as inflamed and non-inflamed.

If RA diagnosis of lymphocyte image is declared as non-inflamed then further investigation with hand bone image is essential for confirming the state. Therefore, this research work is extended to include the analysis of digital X-ray hand bone images of RA patients. An exclusive elliptical ROI segmentation algorithm is introduced to segment the carpal bone from the hand bone image. Decision rules are framed to ascertain the state of inflammation using the features such as perimeter, area, mean, standard deviation, energy and BMD. This research work also included the necessary statistical testing and analysis considering different case profiles of RA patients using t-test and ANOVA.

BOOKS CHAPTER : PUBLISHED

Title of the Chapter : DECISION-DRIVEN CLASSIFICATION AND PREDICTION OF BRAIN TUMOR

Book Name: Handbook on Computer And Information Technology (HCIT), Research India Publications, Delhi. ISBN No. : 978-93-84443-46-7

PUBLICATION : PUBLISHED (JOURNAL: 49 CONFERENCE: 1) SCOPUS ID: 55327831700

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2. **SP.Chokkalingam**,E.Srimathi, "Securing Open Source Cloud Storage on OpenStack Cloud Computing Platform", International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-7, Issue-6S4, April 2019

3. N.Deepa, **SP.Chokkalingam**, "Deep Convolutional Neural Network (CNN) for Medical Image Analysis", International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 -8958, Volume-8, Issue-3S, February 2019.
4. Rajalakshmi.J, N.Duraimurugan, **SP.Chokkalingam**, "Action Recognition for Controlling ElectronicAppliances", International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 -8958, Volume-8, Issue-3S, February 2019.
5. P N VenkataSai, **SP.Chokkalingam**, "Analysing the Behaviour of Network Traffic Using Pcap in Different Conditions", International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 -8958, Volume-8, Issue-3S, February 2019.
6. N.DuraiMurugan, **SP.Chokkalingam**, Samir BrahimBelhaouari, "Analysis of Deep Learning Models using Convolution Neural Network Techniques", International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 -8958, Volume-8, Issue-3S, February 2019.
7. R. Vanathi, **SP. Chokkalingam**, "Side Channel Attacks in IaaS and Its Defense Mechanisms", International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 -8958, Volume-8, Issue-3S, February 2019.
8. Nandhini R, Duraimurugan N, **SP.Chokkalingam**, "Face Recognition Based Attendance System", International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 -8958, Volume-8, Issue-3S, February 2019.
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10. KaholGaurav B.U, G. Divya, **SP.Chokkalingam**, "Video Summarization on E- Learning Platform using Artificial Neural Network", International Journal of Recent Technology and Engineering (IJRTE)ISSN: 2277-3878, Volume-7, Issue-6S4, April 2019.
11. E. Srimathi, **SP. Chokkalingam**, "Efficiency on Public Cloud Storage Providers in Cloud Computing", International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-7, Issue-6S4, April 2019.
12. **SP.Chokkalingam**, Komathy. K, Mohan Kumar. P, Durai Murugan. S Apr 2015, 'Rheumatoid Arthritis Dataset Analysis and Case Studies', International Journal of Applied Engineering Research, vol. 10, no. 4, pp. 2948-2952, ISSN: 9734562 (Annexure II).
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13. **SP. Chokkalingam**, S. Mithra & M.Z. Rahima Sulthana May 2015, ' Performance Evaluation of Edge detection Medical Images', Australian Journal of Basic and Applied Sciences, vol. 9, no. 11, pp. 736-740. (Annexure II)
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17. **SP. Chokkalingam** & Komathy. K, May 2014, 'Classification and Segregation of Abnormal Lymphocytes through Image Mining for Diagnosing Using Min-max Algorithm', Research Journal of Applied Sciences, Engineering and Technology, vol. 7, no. 18, pp. 3926-3934, ISSN: 20407459 (Annexure II).
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SERVICE PROFILE

Total Experience	**20 years and 9 months**
Academic Experience	19 years and 4 months
Industry Experience	1 year and 5 months

College	**From**	**To**	**Total Service**	**Designation**
Saveetha School of Engineering, Saveetha University, Chennai	May 2013	Till date	6 Y and 7 M	Program Director of CSE Professor & Head
SMK Fomra Institute of Technology	Dec 2012	May 2013	6 Months	Associate Professor
Dhaanish Ahmed College Of Engineering	May 2009	Dec 2012	3 Y and 8 M	Assistant Professor
Misirimal Navajee Munoth (M.N.M) Jain Engineering College	Dec 2006	May 2009	2 Y and 5 M	Assistant Professor
Sree Sastha Institute Of Engineering and Technology (Chembarambakkam)	June 2001	Nov 2006	5 Y and 6 M	Sr.Lecturer
Shree Chandraprabhu Jain College, Minjur (Chennai)	June 2000	May 2001	1 Y	Lecturer

Industry	**From**	**To**	**Designation**
Essana Systems (India) Ltd, Chennai	Sep 1999	May 2000	Programmer
CSC, Poonamallee (Chennai)	May 1999	Aug 1999	Trainer
Info drive software Ltd, Chennai	Jan 1999	Apr 1999	Project Trainee

PROJECT CONSULTANCY (1)

Project Title: Optimized and Advanced Approach for Early Detection of Coronary Artery Disease

Project Number: 367-34

Client: KING ABDULAZIZ CITY FOR SCIENCE AND TECHNOLOGY, AlFAISAL UNIVERSITY, KACST PROJECT.

Researchers:

Dr. Brahim Belhaouari Samir, Head of Department, PI, Applied Mathematics Dr. Bandar Saeed Ahmed Alghamdi, Assistant Professor, CO-I,
Adult Cardiology Noreen Kausar, Adjunct Professor, CO-II, Computer Science,
Dr.SP.Chokkalingam, Professor, Department of IT, Saveetha School of Engineering, Saveetha University, Chennai, India.

Description:

Performance enhancement for disease diagnostic systems has been utmost challenging aspect of providing further treatments or proceeds surgeries without any possible delays. The focus of this project is based on both processing potential clinical features and implementing the classification architecture for detection of cardiac abnormality. The milestone of this first year involves: (i) analysis and investigation of different feature selection and transformation methods. (ii) theoretical modeling of single and hybrid systems by optimizing associated systematic parameters for better precision and recall. The importance of this project is due to its clear objectives where an optimized and advanced system is designed and implemented for the cardiac disease utilizing computer aided diagnosis techniques for data and signal processing.

The methodology is clear and trait forward using the hybrid approach of data mining techniques integrated to deliver enhanced performance on desired data set. In this project comparative classification approaches are integrated to enhance system detection rate and decrease false alarms. The study focuses on feature pre-processing to select suitable feature subsets for classification algorithms like clustering (unsupervised learning) and SVM (supervised learning) which helps in generalizing the diagnosis system to detect unseen abnormality. For this study, we will first apply statistical measures such as scoring ranking for clinical datasets consisting the electrocardiogram (ECG) features to reduce its dimension by eliminating irrelevant features. In the second part, we will apply parametric tuned classification algorithms for selected feature subsets. The third part is to quantify the severity of CAD. At the last performance of the proposed system will be compared with other applied classification techniques in terms of accuracy, sensitivity and specificity.

ACADEMIC ROLES

- **HOD of CSE** Department at SSE, Saveetha university
- Handled ISO, NAAC, UGC 12B, UGC inspection.
- Curriculum Designer of CSE & IT Department
- Conducted Matlab workshop for 60 students at Saveetha university on 6 March 2015

- Organized various seminar, workshop at saveetha university

- Conducted event in E-Week at saveetha university
- Acted as the internal reviewer, proceedings incharge, website development for International Conference (ICHCI 13) at saveetha university
- Acted as the mentors and motivate student to publish paper in international scopus journal.
- Presented Relational DBMS in FTP at Easwari Engineering College
- Attended various national level workshop and seminar in Kongu Engineering College, Sthyabama University
- Attended 5 Days FTP in Meenakshi college of Engineering for MAT LAB conducted by Raghuram associates
- Good Communication skill
- Work independently and interact with all staff including Top levels
- Chosen the **Best Faculty** in CSE department in the period of 2007-08
- Published 26 International scopus Journal and 1 International Conference paper.
- Under my Guidance 4 final year Students have completed **IBM Project**.
- For **Microsoft Competition** 4 final year students developed students Information Systems are using ASP.NET
- Worked Accreditation **(4 Times)** ,ISO more than 10 times and NAC also.
- Worked as Campus Network Coordinator in the period of 2007 to 2009 at the MNM Jain Engineering College
- Designed and maintained CSE Labs in Dhaanish Ahmed College and act as the IT Coordinator. Created Mentor role in Dhaanish College, which is helpful to achieve 43rd rank and IT Department secure 2nd rank.
- SAMS College invited during summer vacation for .NET courses . Training was given 10 days in .NET Course for 3rd Year and 4th Year students

SUBJECTS TAUGHT

Database Management Systems	Operating Systems
Theory Of Computation	Programming in VC++
Programming in C with Data Structures	Data mining and Data warehousing
Object oriented programming in C++	Cloud Computing
C# and .NET Framework	Object Oriented Analysis and Design
Web Technology	Artificial Inteligence
Software Metrics	Graphics and Multimedia

LAB HANDLED

DBMS LAB using Oracle	Data Mining using WEKA
OS LAB	Rational Rose LAB
Data Structures Lab using C	Graphics and Mulitimedia Lab using C
OOPS using C++ and Java	Web Technology LAB
.NET LAB	Programming in VC++ LAB

SOFTWARE PROFICIENCY

Operating System	Windows 95/98, Windows NT
Languages	C,C++,Java,VB .Net, C#.Net, Visual Basic, XML
Web technology	ASP.Net, ASP
Microsoft Technology	ODBC, COM, DCOM, Activex

RDBMS	SQL Server 2005, Oracle 9i/10G

TECHNICAL PROFILE

- Strong Expertise in Logical database design and ER Modelling.
- 10+ Years on hands on experience in Oracle 9i/10G/11G.
- 5+ Years on practical experience in Microsoft SQL Server 2005/2008.
- Handled many Training session in SQL using Oracle.
- Prepared training materials and Lab Exerises for SQL
- Proficient in Case Study and examples based training.
- Handled 10 RDBMS Trainigs for Industries.
- Handled/ Handling Classes DBMS, Data waehousing, Advanced database software for Engineering College and University students.
- Team Member to various projects on web, stand-alone and distributed applications using C#.Net, VB 6.0, ASP, XML, SQL Server, and Oracle.
- Expertise in developing web-based applications using ASP.NET, ASP, HTML, XML, MatLab and VBScript
- Have a real flair for Visual Basic development & Web based applications
- Have excellent quality of adapting to latest technology with analytical, logical and innovative knowledge to provide excellent software solution.
- Developed Small Scale data base applications using Foxpro, Visual Basic, and Visual Studio 2005/2008 with Oracle and MSSQL Server as backends.

PERSONAL DETAILS

DATE OF BIRTH	21-04-1975
PASSPORT NUMBER	J9415370
VALID UPTO	24.11.2021
MARITAL STATUS	Married
CHILDREN	2 (1 Daughter, Studying IX Standard and 1 Son studying I Std.)
SPOUSE	MA(English),M.Phil(English).,MBA(HR).,(PhD)

REFERENCES

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PROJECT DETAILS

1.	**JULIET: A Distributed Fault Tolerant** Load Balancer for .NET Web Services
Environment	**Visual Studio .NET2.0, C#.NET,ADO.NET, Internet Information Server, SQL Server 2005, XML**

Description:

Implementing these applications as web services that run in parallel can reduce the execution time of computationally intensive applications such as protein folding and fractal generation. Additionally, some of these web services may save state periodically to resume execution later on. However, currently, there is no solution to load balance this class of web services, and to replicate the saved state for the purposes of resumption. Here describes the architecture of JULIET; a system that loads balances .NET web services across a Windows cluster in a distributed fashion. The system is also fault tolerant since it supports failovers and replication of data generated by the web services at the application level. The system is designed to be minimally visible to the web service and the client that consumes it.

2.	**Essana Power**
Client	**Sam's Quality Home Needs Pvt. Ltd. Anna Nagar**
Environment	**VB 6.0, Oracle 8**

Description:

The software is being developed for a Super Market. The software dividing by 4 Modules Master, Billing, Stock Transfer, Reports .It takes care about the Product details, Price details, Vendor details, Purchase Order, Goods Received Note, Purchase returns, Daily transaction, Sale returns, Billing, Stock updating, Debit Note, Payments, Receipts, Godown stock, Stores stock, Transfer of stock from Godown to Stores, Stores to Godown on damage, Buyer to Stores, Stock Voucher on stolen products, and Reports on Category wise/ Sub-Category wise/ Major Category wise Stock Details etc. In master module Vendor and Product master takes the main role. In Vendor master maintains the information about the Vendor. In Product master all the products are categorized as Major Category, Category and Sub-Category. The products are bar coded and the Software helps in retrieving the product description and the price when the Bar code scanner scans the product.

3.	**Essana Online Payroll**
Client	**Sam's Realities(Madras) Pvt. Ltd. Anna Nagar**
Environment	**ASP, Internet Information Server, MS-Access, Windows 2000**

Description:

The software is being developed for Sam's group of Companies. The software dividing by 3 Modules namely Master, Transaction and Reports Master module contains the Employee, Holiday and Department. Employee master maintain the personal and official details of the employee. Holiday master Contains the List of holidays and Department mater contains the list of deparments. Transaction contains the Leave Entry, Attendence and Leave adjustment Entry. Reports are contains Holiday Details, Leave statement, Salary statement and Payslip.Reports are generated in Excel and Word. Screen contains Generate and View button. If the users press the Generate button reports are generated in Excel and Word. Purpose of View button is to View the report.

4.	**Dealership Communication System**
Client	**S.K. Agencies**
Environment	**VB 6.0, Oracle 8**

Description:

Dealership Communication System communicates between various Dealers and manufacturers. This system transfers day-to-day information from dealers to the manufacturer and vice versa and which helps in taking important Management decisions. By this system any dealer can place an on-line Purchase Order for Vehicles and Parts.

5.	**Detection of kidney fault using threshold segmentation methods**
Client	**Saveetha Research Medical Consortium**
Environment	**MatLab**

Description

Image Enrichment is the first and foremost step that has to be done in all image processing applications. It is used to improve the quality of digital images. In this paper kidney is fully segmented into four components: renal cortex, renal pelvis, renal column and renal medulla .The segmentation is done with the threshold segmentation method. The segmented image is undergone with four types of noise: salt and pepper noise, gaussian noise, speckle noise and poisson noise influenced in kidney smear image and their removal using four types of filters : mean filter, median filter, gaussian filter and wiener filter in order to judge the efficiency of various filters over the different kind of noise. For estimation of parametric values we can use MSE, NAE, NK, PSNR .