BIODATA OF PRINCIPAL INVESTIGATOR

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Mobile NO:91+9486088112 and 8778900109

OBJECTIVE

Looking for an opportunity to work on an important research work and teaching in an institution which provides professional development ,interesting experiences and personal growth

SUMMARY:

➢ More than 10 years of experience of which relevant + 13 Years of experience in teaching in an Engineering college as faculty and 2 years of experience in COBOL as Programmer in IT company.

➢ Experience in handling all subjects such as System Software, DBMS, Artificial Neural Networks, Remote sensing, GIS,Digital Image Processing,GIS applications and spatial programming and GIS customization.

➢ Working experience in MS-Access, Oracle8i, Oracle9i, SQL server and MATLAB.

➢ A highly motivated, energetic individual with excellent communication and interpersonal skills.

➢ Good knowledge in SQL, PL/SQL.

➢ Good knowledge in ARC GIS,ENVI, ERDAS for Image classification and Interpretation.

KNOWLEDGE AND SKILL AREAS:

- Image Processing
- Artificial Neural Networks
- Remote sensing and Geographic information system(GIS
- Scripting and Customization in Arc GIS,object programming languages
- Field research, Methodology design and methods ,Project planning ,research and development
- Overlay analysis in GIS, Software development for Agriculture land change detection in JAVA

TECHNICAL SKILLS:

RDBMS   :   MS-Access 2000 and MySQL, Oracle 8i, 9i and 10g.

Operating System   :   Windows 9X/2000/NT 4.0, MS DOS, UNIX, LINUX.

Programming Language   :   COBOL, C, C++ and Java and python

Web technologies   :   ASP, HTML and DHTML.

OLAP Tools   :   Business Object

EDUCATIOAL QULIFICATION:

Course	Name of the Institution	University	Year of Passing	CGPA
Ph.D (Remote Sensing)	Anna University,Chennai	Anna University,Chennai	July,2020	Completed
M.Tech (Remote Sensing)	University Departments Anna University,Tirunelveli	Anna University of Technology,Tirunelveli	2011	9.3
B.E (Computer Science and Engineering)	National Engineering College ,Kovilpetti	Manonmaniam Sundranar Unversity,Tirunelveli	1997	6.4
HSC	Walker Higher Sec. School,Dhounavur	State Board	1993	8.4
SSLC	Walker Higher Sec. School,Dhounavur	State Board	1991	8.5

TEACHING EXPERIENCE:

S.NO	INSTITUTION	DESIGNATION	PERIOD
1.	Sri Sarada College for Women(Autonomous)	Director	Nov 30,2020 to till date
2.	Regional Campus, Anna University, Tirunelveli-627007	Teaching fellow	Jan 2013 to May,2019
3.	SCAD College of Engineering and Technology Cheranmahadevi-627414	Assistant Professor	May 2011 to 2012
4.	PET Engineering College.,Vallioor-627109	Lecturer	Sep 2001 to 2005

INDUSTRIAL EXPERIENCE:

➢ Worked as a Software Engineer between 1999 and 2000 , Data Software Research Company Pvt Ltd,Chennai.

Expertised in Upper-Level Course Work

Digital Image processing, Neural network and its applications ,Remote sensing and GIS in environmental engineering , Regional and Urban planning in RS and GIS

Ph.D Thesis

Title#1:

OBJECT BASED ADAPTIVE RESONANCE THEORY 2 AND REMOTE SENSING APPROACH TO DETECT THE LAND USE CHANGES FOR TIRUNELVELI TALUK, TAMIL NADU, INDIA

Description :

Classification,Land cover and Land change detection,Supervised

Classification,ENVI based ,ARCGIS Based and ART2 Based Model.

PROJECTS:

Title#1 :

3D CITY MODELING FROM HIGH-RESOLUTION SATELLITE IMAGES

Description :

3D object reconstruction,SAT-PP (Satellite Image Precision Processing),Derivation of

DTMs / DSMs automatically,Generation of cyber city model

Title#2:

STOCHASTIC METHOD FOR DE-SHADOWING AND OBJECTS RETRIEVAL FROM HIGH RESOLUTION IMAGES

Description:

Digital Image Processing,Shadow Segmentation or Detection,Region Growing Algorithm,Shadow Elimination,Lightness Recovery

Title#3:

PREDICTION OF AGRICULTURAL LAND CHANGES USING REMOTE SENSING AND GIS

Description:

Digital Image Processing, GIS,Remote Sensing and Land Change detection

Title#4:

Spatial data analysis technique for identification of crime area southern zone of Chennai city

Description:

Creation of Base Map,Crime Map, Kernal Demsity Estimation, Hot Spot identification.

Other credits

- **Malini M,**2011 'Stochastic Method For De-Shadowing And Objects Retrieval From High Resolution Images', has Published research at International journal of Computer Science and Engineering**,** ISSN : 0975-3397, Vol. 3 No. 4,pg No:1468-1477.
- **Malini Muthu Pandian,** 2016, 'ART Based Reliable Method for Prediction of Agricultural Land Changes Using Remote Sensing', Has published at Circuits and Systems, vol. 7, pp. 1051-1067.
- **Dr Malini.M,** 2021 Weather Prediction Summary using Machine Learning Algorithm'', has published at Innovation of information Technology ,**ISSN**: 2581-723X,vol.5 ,pp:6.
- More than 10 conferences presented in the colleges related the topics in spatial technique approach

Authors	Title of the paper	Name of the conference	Volume	Page No	Year
Dr Malini M, Ramalakshmi.S DivyaBarkavi S	GUI based agriculture land changes detection using adaptive	National level conference on current trends in advanced computing	ISSN: 22496019 & 1	136	2021
M.Malini	Physical and	Geo spatial technologies for	12	157	2017

	chemical parameters of soil analysis for detecting agriculture land suitability	rural development			
M Malini	Agriculture land change detection softwre using ART2 for Tirunelveli	Soft computing techniques in structural and Environmental Engineering	9	129	2015
Malini M	Agriculture land change detection and modelling for Tirunrlveli district	National level conference on recent trends in civil Engineering	10	70	2013
Malini M	Evaluation of of the performance of different methods for shadow detection and removal using image processing	3rd level conference on signal processing , communication and VLSI design	8	59	2011
Malini M	Evaluation of of the performance of different methods for shadow detection and removal using image processing	Emerging trends in Engineering and technology	7	80	2011

S.No	Patent Publication and Registration Details	Applicant	Inventor	Ref .NO	Year	Status
1	IoT based real time Physico chemical parameters motoring system in mangrove zone	**Yes**	**Yes**	202141031081	2021	Published

PERSONAL PROFILE:

Name : Malini. M
Father's Name : Muthu Pandian . S
Sex : Female
Marital Status : Married
Nationality : Indian
Age & Date of Birth : 45 & 21-03 -1975
Place of Birth : Tirunrlveli, India
Languages Known : Tamil, English
Permanent Address : M268,PhaseII,Anbunagar,Maharaja Nagar (PO),Tirunelveli.
627011.Tamil Nadu ,India.
Passport Number : M1458443

Family Background : one daughter who is Singaporean (Singapore citizen)

DECLARATION:
I hereby declare that the information given in this application are true to the best of my knowledge and belief.
Place: Tirunelveli
Date: 20/12/2021