



Anand Nagar, Krishnankoil - 626126, Srivilliputtur (via), Virudhunagar District, Tamilnadu.

APPLICATION FOR ADMISSION TO Ph.D. PROGRAMMES

Date of Application:25-12-2020

Department	COMPUTER SCIENCE AND ENGINEERING	Application No.	202020204
Area of Research	DATA MINING & IMAGE PROCESSING	Research Mode	PART TIME

Name :SHANMUGHA PRIYA R. K.
Date of Birth / Age :11-05-1977 / 43 Years
Gender :FEMALE
Category :OC
e-Mail ID :priyaramachanthiran@gmail.com
Mobile :9487659410



Priyama

Father's/Husband's Name	RAMA CHANDRAN G.	Father's/Husband's Occupation	-
Family Income	240000	Residential Type	RURAL
Birth Place	NAGERCOIL	Mother Tongue	TAMIL
Religion	HINDU	Martial Status	MARRIED
Aadhaar No.	459669512433	PAN No.	CEGPS0763G
Physically Challenged	NO	Type of Disability	-
Address for Communication: 10/56 SOUTH STREET, ASHRAMAM, SUCHINDRAM POST AGASTHEESWARAM TALUK KANYAKUMARI DISTRICT TAMIL NADU INDIA Pin-629704		Permenant Address: 10/56 SOUTH STREET, ASHRAMAM, SUCHINDRAM POST AGASTHEESWARAM TALUK KANYAKUMARI DISTRICT TAMIL NADU INDIA Pin-629704	

Qualification						
Degree	Discipline	College/university	Year Passed	AVG/CGPA	Class	Mode
M. E.	COMPUTER SCIENCE AND ENGINEERING	MANONMANIAM SUNDARANAR UNIVERSITY	2013	82.44	FIRST WITH DISTINCTION	REGULAR
MCA	COMPUTER APPLICATION	MADUARI KAMARAJ UNIVERSITY	2001	71.78	FIRST	DISTANCE

Experience					
Organization	Designation	Experience From	Experience TO	Work Nature	
MAR EPHRAEM COLLEGE OF ENGINEERING AND TECHNOLOGY	ASSISTANT PROFESSOR	2016-06-15	1970-01-01	TEACHING	

Payment Details				
Transaction ID	Reference	Date of transaction	Amount	Status
202020204_201225195649	VUR29594703213	25-12-2020	600	SUCCESS

DEEP LEARNING NEURAL NETWORK ARCHITECTURE FOR DETECTION OF TUMOR IN MR BRAIN IMAGES

Data mining is an emerging technology that helps in retrieving information from large databases. Data mining is complimenting various industries including business, science, medical, education, finance and more. Image segmentation is used with several data mining techniques to diagnose diseases, identify and locate tumors. The back propagation neural network is a classical technique for the detection of tumors. Apart from BPNN, many other neural networks are also there like probabilistic neural network, radial basic function neural network for medical applications. This research work proposes deep learning neural network architecture for the diagnosis of tumors. The DLCNN can process 2D image data as well as speech signals. The evolution of deep learning architecture started in 1965; however, nowadays, it gains prominence for real-world applications like image classification, video classification, natural language processing, visual tracking, and speech recognition.

The CNN is one of the widely used deep learning architectures, and the proposed segmentation algorithm is a fully automatic algorithm and its efficiency relies on the training. The CNN structure mimics the biological structure of animal visual cortex. The CNN gains a prominent role in image and video processing, natural language processing due to the minimal pre-processing required. Prior to segmentation, the preprocessing was performed by min-max normalization. The CNN comprises multiple convolution layers preceded by one or more fully connected layer. The convolution layer is the basic building block of CNN, and it comprises Gaussian kernel masks. The filter mask is convolved with the height and width of the image and generates a feature map or activation map. The convolution layer is followed by rectified linear units (ReLU) layer, and here in this layer, the ReLU function is applied to the feature map. The pooling is a key feature of CNN in which the downsampling is performed. The pooling dimension size is predefined and based on that, the input feature map image was subdivided into rectangles; the maximum value in the sub-block is the resultant value. The fully connected layer is the last layer, and it uses hyperbolic sigmoid as the activation function.

The deep learning neural architecture generates superior results for the diagnosis of tumor in MR brain images.



பொறியியற் புலம்

FACULTY OF ENGINEERING

மனோன்மனியம் சுந்தரனார் பல்கலைக்கழக ஆட்சிக்குழு
சண்முக ப்ரியா இரா கி

கணினி இயல் மற்றும் பொறியியலில் பொறியியல் நிறைஞர்
பட்டம் பெறுவதற்குத் தகுதியுடையவர் என முறையாக அமைக்கப்பெற்ற தேர்வினோர்
சான்றளித்தவாறு ஏப்பிரல் 2013 இல் நடத்திய தேர்வுகளில்
சான்றளித்தபடி, அன்னவர் தனிச்சிறப்பான முதல் வகுப்புப்பெற்று
இந்தப் பட்டப்பேற்றுக்கு உரியவர் ஆகின்றார் என இதன்வழி அறிவிக்கின்றது.

பல்கலைக்கழக முத்திரையுடன் இது வழங்கப்படுகின்றது.

The Syndicate of the **MANONMANIAM SUNDARANAR UNIVERSITY**
hereby makes known that **SHANMUGHA PRIYA R K**

has been admitted to the Degree of

MASTER OF ENGINEERING IN COMPUTER SCIENCE AND ENGINEERING

he / she having been certified by duly appointed Examiners to be
qualified to receive the same at the Examination held in **APRIL 2013**

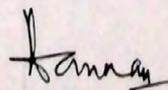
and having been placed in the **FIRST CLASS WITH DISTINCTION**



Given under the seal of the University.

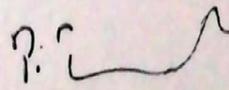
திருநெல்வேலி, இந்தியா
Tirunelveli, India

நாள். Dated **23.09.2013**


(Dr. N. Kannan)

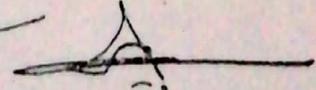
தேர்வாணையர்

Controller of Examinations


(Dr. T. Tamilz Chelvam)

பதிவாளர்

Registrar


(Dr. A. K. Kumaraguru)

துணை வேந்தர்

Vice-Chancellor



மனோன்மணியம் சுந்தரனார் பல்கலைக்கழகம்
MANONMANIAM SUNDARANAR UNIVERSITY

TIRUNELVELI, TAMILNADU, INDIA.

CHOICE-BASED CREDIT SYSTEM

CSCB 00007514

STATEMENT OF MARKS

COURSE : M.E. COMPUTER SCIENCE AND ENGINEERING (PART-TIME)

NAME OF THE CANDIDATE		REGISTER NUMBER	DATE OF PUBLICATION			SEMESTER				
SHANMUGHA PRIYA R K		3067	29/07/13			SIXTH				
COLLEGE OF STUDY			COLLEGE NO.	CENTRE NO.	EXAM. MONTH AND YEAR					
UNIVERSITY DEPARTMENT			454	454	A-2013					
SUBJECT CODE	SUBJECT NAME	COURSE CATEGORY	CREDITS	MARKS			RESULT	MON - YR OF PASSING	CREDITS ACQUIRED	MARKS & CREDITS
				INT	EXT	AGRE				
B11MP	Mathematical Foundation of Computer Science	C	4	14	38	52	PASS	N-10	4	208
B12MP	Data Structures & Algorithms Using C++	C	4	23	56	79	PASS	N-10	4	316
B13MP	Computer Networks	C	4	21	51	72	PASS	N-10	4	288
BL1MP	Data Structures & Algorithms Using C++	L	4	36	54	90	PASS	N-10	4	360
B21MP	Principles of Compiler Design	C	4	19	51	70	PASS	A-11	4	280
B22MP	Software Engineering	C	4	19	59	78	PASS	A-11	4	312
B23MP	Digital Image Processing	C	4	21	44	65	PASS	A-11	4	260
BL2MP	Network Programming Lab	L	4	39	52	91	PASS	A-11	4	364
B31MP	Mobile Computing	C	4	22	58	80	PASS	N-11	4	320
B32MP	Soft Computing	C	4	22	61	83	PASS	N-11	4	332
BEAMP	Network Security	E	4	21	63	84	PASS	N-11	4	336
BL3MP	Mat Lab	L	4	36	58	94	PASS	N-11	4	376
BE8MP	Object Oriented Analysis and Design	E	4	24	58	82	PASS	A-12	4	328
BECMP	Data Mining & Data Warehouse	E	4	23	55	78	PASS	A-12	4	312
BEGMP	Parallel Processing	E	4	22	56	78	PASS	A-12	4	312
BL4MP	Advanced Programming Lab (Graphics/Networks Simulator)	L	4	36	57	93	PASS	A-12	4	372
BP1MP	Mini Project	P	10	37	55	92	PASS	N-12	10	920
BP2MP	Project Work/Viva Voce	P	16	39	50	89	PASS	A-13	16	1424

Weighted Average Marks of Subjects passed

	MARKS	INT	EXT	AGRE
THEORY	MAXIMUM	25	75	100
	PASSING MINIMUM	-	38	50
PRACTICAL	MAXIMUM	40	60	100
	PASSING MINIMUM	-	30	50

Total of (Marks x Credits)

Total of Credits Acquired = 82.44

CLASS FIRST

WITH DISTINCTION

TOTAL

90 7420

COURSE CATEGORIES

C - CORE SUBJECT
O - OPTIONAL SUBJECT
L - LABORATORY / PRACTICAL
S - SUPPORTIVE COURSE
P - PROJECT WORK

Dr. S. Prabahar

Dr. S. Prabahar

CONTROLLER OF EXAMINATIONS

Shanmugha Priya R K
SIGNATURE OF THE CANDIDATE



மனோமணியம் சுந்தரனார் பல்கலைக்கழகம்
MANONMANIAM SUNDARANAR UNIVERSITY
TIRUNELVELI

Department of Computer Science & Engineering

TRANSFER CERTIFICATE



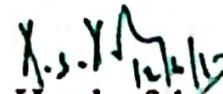
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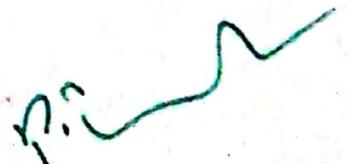
Admission No:

1. Name of the Candidate : R. K. Shanmugha Priya
2. Name of the Father /Mother/ Guardian : G. Rama Chandran
3. Date of birth as entered in the Admission Register : 11. 5. 1977
4. Gender : Male / Female / Transgender
5. Date of Admission to the University : 31. 8. 2010
6. Date of leaving : 27. 5. 2013
7. Course in which the student was studying at the time of leaving : M. E. (Part time)
8. Whether the student is qualified for promotion to higher studies : Refer Mark Statement
9. Whether the student has returned all the books and paid all the fees or other dues payable to the University : yes
10. Reason for leaving the University : Completed / Discontinued
11. Date on which the application for Transfer Certificate was made : 27. 5. 13
12. His/ Her Conduct and character : Good

Date:


Signature of the
Student


Head of the
Department


Registrar



MAR EPHRAEM COLLEGE OF ENGINEERING & TECHNOLOGY

Catholic Diocese of Marthandam

Malankara Hills, Elavuvilai - 629 171, Marthandam, Kanyakumari Dist. Tamil Nadu, South India.

Most Rev. Dr. VINCENT MAR PAULOS
Chairman

Approved by AICTE - No. 07 / 08 / TNE&T / 2009/11
Affiliated to Anna University-No: AUTVL / Affiliation: 2009-10 / 716

Rev. Fr. Prem Kumar M.S.W.
Correspondent / Secretary

Ref No. MECEET/ App/2016 160

15.06.2016

Appointment Order

Ms. R.K. Shanmugha Priya is appointed temporarily as Assistant Professor in the School of Computer Science and Engineering w.e.f 15.06.2016 F.N.

The appointment is governed by the Rules & Regulations of employment framed by the management.

She shall report for duty before the Secretary/Correspondent Mar Ephraem College of Engineering and Technology on 15.06.2016 F.N.

She is requested to submit an undertaking to the effect that she should abide by the rules and regulations of the management. On completion of two years from her joining, her term of appointment may be extended after the assessment of her work by the management.

To

Ms. R.K. Shanmugha Priya,
10/56, South Street,
Ashramam,
Suchindram Post-629704,
K.K. Dist.

Correspondent/ Secretary

Dr. PREM KUMAR M.S.W.
CORRESPONDENT / SECRETARY
MAR EPHRAEM
COLLEGE OF ENGINEERING & TECHNOLOGY
MALANKARA HILLS, ELAVUVILAI - 629 171
KANYAKUMARI, KANYAKUMARI DIST

Copy to: Principal
Office

Vision: A world class Malankara Institution of higher learning renowned for its excellence in science and technology, and for its commitment to the holistic development of the individuals and society.

Mission: MAR EPHRAEM COLLEGE OF ENGINEERING AND TECHNOLOGY is committed to provide quality and value-based education for the industrial and socio-economic development of the nation with its diverse cultures through relevant programmes in teaching and learning, research, extension and community involvement.

आयकर विभाग
INCOME TAX DEPARTMENT



भारत सरकार
GOVT. OF INDIA

SHANMUGA PRIYA R K
RAMACHANDRAN

11/05/1977

Permanent Account Number

CEGPS0763G

Signature



இந்திய அரசாங்கம்
Unique Identification Authority of India
Government of India

பதிவு அடையாளம் / Enrollment No.: 1092/78018/04593

To

சண்முக ப்ரியா ராமசந்திரன் கிருஷ்ணம்மாள்
Shanmugha Priya Ramachandran Krishnammal

D/O Ramachandran

NO 10-56 SOUTH STREET

ASHRAMAM SUCHINDRUM

Agasteeswaram

Suchindrum

Kanniyakumari

Tamil Nadu 629704

9487659410

29/01/2013

28224972



MN282249720FT



உங்கள் ஆதார் எண் / Your Aadhaar No. :

4596 6951 2433

ஆதார் - சாதாரண மனிதனின் அதிகாரம்



இந்திய அரசாங்கம்

Government of India



சண்முக ப்ரியா ராமசந்திரன் கிருஷ்ணம்மாள்
Shanmugha Priya Ramachandran Krishnammal

தந்தை : ராமச்சந்திரன்

Father : RAMACHENDREN

பிறந்தவருடம் / Year of Birth : 1977

பெண்பால் / Female



4596 6951 2433

ஆதார் - சாதாரண மனிதனின் அதிகாரம்