Government Arts college (Autonomous),
Coimbatore –18
Performance - Teacher Appraisal
Report

i) General Information

a) Name : **Dr.S.K. MAHENDRAN, MCA, M.Phil(CS), Ph.D**

b) Address (Residential) : 70 A/7B, Andal Thottam
Sundarapuram
Coimbatore- 641024

c) Designation : Assistant Professor

d) Department : Computer Science

e) Date of Birth : 10-05-1969

f) Area of Specialization : Image Processing, Data Mining and Networking

A) Academic Qualifications

Examination passed	Board / university	Subject	Year	Division grade/merit etc.,
SSLC	State Board, Govt. of Tamil Nadu		1985	I
HSC	State Board, Govt. of Tamil Nadu		1987	I
B.Sc	M.K.University	Physics	1990	I
MCA	Bharathiar University	MCA	1993	I
M.Phil.	M.S University	Computer Science	Nov 2002	II
Ph.D.	Bharathiar University	Computer Science	31-08-2012	Commended

ii) Research Experience & Training

Research stage	Title of thesis	University where the work was carried out.
M.Phil	Dynamic Data Compression	M S University
Ph.D	"AN ENHANCED TIBIA FRACTURE DETECTION TOOL USING IMAGE PROCESSING AND CLASSIFIER FUSION TECHNIQUES IN X-RAY IMAGES"	Bharathiar University
No of Publication	38	
Research guidance(give the names of students guided successfully)	7	
Training(please specify)	---	

B) Research Projects carried out

S. No.	Title of the Project	Name of the Funding Agency	Duration	Remark s
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C) Seminars, Conferences, Symposia Workshops etc. attended

Name of the Seminars / Conferences / Symposia / Workshops etc	Name of the Sponsoring Agency	Place and Date
FDP on Design, Develop and Deliver online courses through	TANSCHE with technical support of DOTE, TamilNadu	May 15 & 16, 2020
Microsoft Essentials	Tamil Nadu Govt. Skill Development Corporation and Naan Mudhalavan- Bharathiar University	02-02-2023 to 03-02-2023
Cloud and IT Essentials for Employability	Tamil Nadu Govt. Skill Development Corporation and Naan Mudhalavan- Bharathiar University	24-07-2023 to 26-07-2023

iii) Teaching Experience

Courses Taught	Name of University/ College/Institution	Period of employment From - To
Computer Science	Government Arts College(Autonomous), Coimbatore-18	02-12-2021 to Till Date
Computer Science	Government Arts College Udhagamandalam-2	05-11-2015 to 01-12-2021
Computer Science	Government Arts College (Autonomous), Kumbakonam-612 002	29-07-2015 to 04-11-2015
Computer Science	SVS Institute of Computer Applications, Coimbatore	19-09-2011 to 04-02-2015
Computer Science	Sankara College of Science and Commerce, Coimbatore	05-10-2008 to 27-08-2011
Computer Science	KGiSL-Institute of Information Management, Coimbatore	14-08-2003 to 31-09-2008
Computer Science	RVS College of Arts and Science, Coimbatore	01-03-1995 to 13-08-2003
Computer Science	Ayira Vasiyar College, Madurai	12-07-1993 to 28-02-1995

Total Teaching Experience (in years and months) : 29 Years

a)	Under-graduate	21 Years
b)	Post-graduate	29 years
c)	Research	10 Years

viii) Innovations/ Contributions in Teaching

a) Design of Curriculum :	Designed syllabus for B.Sc., M.Sc., of computer Science & MCA
b) Teaching methods :	Lecturing, educational quiz, group discussions, seminars and workshops. Teaching through A/V aids, Industrial visits and hands on training.
c) Laboratory experiments :	Real time problems and Experiments based on problems solving ability in accordance with the
d) Evaluation methods :	Tests, seminars, problem solving experiments, Paper presentation, Attentiveness of the student is periodically watched, Problem solving Exercises, Projects
e) Preparation of resource material including books, reading materials, laboratory	Mainly prescribed text books and reference books and leading websites
f) Remedial Teaching / Student Counseling (academic) :	Special coaching classes, Identifying students' problems, helping them in Solving problems, parental counseling
g) Any other :	

IX) Research Contribution

a). PhD/M.Phil undergoing scholars

Sl. No	Name of the PhD/ M.Phil(PT/FT) Scholar	Name of the University	Broad Field	Registration Number	Year of registration
1	Bhubeshwaran M	Bharthiar University	Computer science	CRE/CSC 22PNOV 1002(Full Time)	2023
2	C.Rajkumar	Bharthiar University	Computer science	Ph.D-CB-JUL2014-0641	JULY 2014
3	Manjula K A	Bharthiar University	Computer science	Ph.D-CB-JUL2012-1140	Jul 2012
4	Saravanakumar D	Bharthiar University	Computer science	Ph.D-CB-JUL2014-0685	JULY 2014

b). PhD/M.Phil Awarded

Sl.No	Name of the PhD/M.Phil (PT/FT) scholar	Name of the University	Title of the thesis	Year of registration of the scholar	Year of award of PhD
1	C.T.K.Amarnath	Bharthiar University	Computer Science	Ph.D-CB-DEC2012-0428	Dec,2012
2	S.LakshmiPriya	Bharthiar University	Computer Science	Ph.D-CB-DEC2013-0676	Dec, 2013
3	D.Ganesh	Bharthiar University	Computer Science	Ph.D-CB-JUL2014-0583	JULY 2014
4	P.Bakeyalakshmi	Bharthiar University	Computer Science	Ph.D-CB-JUL2014-0553	JULY 2014
5	A.Mythili	Bharthiar University	Computer Science	Ph.D-CB-DEC2014-0573	Dec, 2014
6	Shailesh kumar shrivasthava	Bharthiar University	Computer Science	Ph.D-CB-DEC2014-0627	Dec,2014
7	Mrs. Arati Mohapatro	Bharthiar University	Computer Science	Ph.D-CB-DEC2014-0479	Dec,2014

X) Extension Work/ Community Service

A) Please give a short account of your contribution to:

Cyber Club Coordinator, Pudhmai Penn Scheme member, Placement cell memebr

B) Positions held / leadership role played in organizations linked with Extension Work National Service Scheme (NSS), or NCC or any other similar activity

C. Participation in Corporate Life

Please give a short account your contribution to:

a) College/ University / Institution	Helping the Principal, HOD in the departmental activities, Maintaining discipline in the campus, Motivating the Students to join all the extracurricular activities
b) Co-curricular Activities	Served as a Time Table in-charge for Computer Science Department 2.UG/PG/M.Phil/PhD admission work
c) Enrichment of Campus Life (Hostels, sports, games, cultural activities)	Helping to students, and dept. activities
d) Students Welfare and Discipline	Periodical counseling to the students, their parents and family members in the Guidance and Counseling center
e) Membership / Participation in Bodies	Member- Board of studies in various colleges and University
f) Professional Organization of Teachers	-----

D.(a) Membership of Professional Bodies, Societies, Editorship of Journals etc.
- ACM membership (Member no. 5478203)
- International Association of Engineers (IAENG). (Member No: 105354),

E. Any other information

BOOK PUBLICATIONS

❖ Book published details

Title of the Book	Author	Co-Author(s)	Name of the Publisher / Month, Year	ISBN/ ISSN
Java Programming an Easy Approach	S.K.Mahendran	Nil	Palani Paramount Publications, Palani, First Edition, 2008	ISBN-81-855517-75-4
Fundamentals of Computer & MS Office	S.K.Mahendran	Nil	Palani Paramount Publications, Palani First Edition, 2008	ISBN-81-85517-76-0
PHP An Easy Approach	S.K.Mahendran	Nil	Rainbow Publications, Coimbatore, First Edition, 2008	ISBN-978-81-906711-2-5

PATENT

S.No	Name	Patent Type	Patent ID	Patent Title
1	Dr.S.K.Mahendran	Indian	202141004394	Live Streaming of High Dynamic Range Videos for IPTV from IOT Cloud Computing Hub using Efficient Block Based Codec(EBBC)

PAPER PRESENTED IN INTERNATIONAL JOURNALS

1. S.K.Mahendran and S.SanthoshBaboo "AN ADAPTIVE PREPROCESSING TECHNIQUE FOR XRAYIMAGE" , ICGST International Journal on Bioinformatics and Medical Engineering, BIME,2010 December, volume 10 ,Issue I ,Pp 67—73, December 2010, Egypt.

2. S.K.Mahendran and S.SanthoshBaboo "AN ENHANCED TIBIA FRACTURE DETECTION TOOLUSING IMAGE PROCESSING AND CLASSIFICATION FUSION TECHNIQUES IN X-RAY IMAGES"GJCST Volume XI Issue XIV Version I, Pp 23-28, August 2011, USA.

3. S.K.Mahendran and S.SanthoshBaboo "AUTOMATIC FRACTURE DETECTION USINGCLASSIFIERS- A REVIEW" IJCSI International Journal of Computer Science Issues, Vol. 8, Issue6, No 1, Pp 340-345, November 2011, ISSN (Online): 1694-0814, Republic of Mauritius.

4. S.K.Mahendran and S.SanthoshBaboo "ENSEMBLE SYSTEMS FOR AUTOMATIC FRACTUREDETECTION" IACSIT International Journal of Engineering and Technology, Vol.4, No.1, Pp 7-10, February 2012, Singapore.

5. Dr.S.K.Mahendran "CURRENT TRENDS AND PERSPECTIVE VIEW OF LOSSLESS VIDEOCOMPRESSION TECHNIQUE" The International Journal of Computer Science & Applications (TIJCSA), Volume 1, No. 9, November 2012, ISSN: 2278-1080(online), Pp115-125, India.

6. Dr.S.K.Mahendran "A COMPARATIVE STUDY ON EDGE DETECTION ALGORITHMS FORCOMPUTER AIDED FRACTURE DETECTION SYSTEMS" International Journal of Engineering and Innovative Technology (IJEIT) Volume 2,Issue 5,November 2012, ISSN: 2277-3754(online), Pp 190-193,India.

7. Ms. Lakshmi priya and Dr.S.K.Mahendran "Procedural Function based modeling of three dimensional objects Modelling three dimensional primitives using node-based architecture", International Journal of Innovative Research in Advanced Engineering (IJIRAE)ISSN: 2349-2163, Volume 1 Issue7,August 2014 Pp 181-186

8. Dr.S.K.Mahendran, "Advanced Data Protection and Key Organization Framework for Mobile Ad-Hoc Networks", International Journal of Innovative Research in Information Security (IJIRIS) ISSN: 2349-7017(O) Volume 1 Issue 2 (August 2014) ISSN: 2349-7009 (P) , Pp 35-39.

9. Dr.S.K.Mahendran, " Position Based Energy-Efficient Protocol for Mobile Ad-hoc Networks", International Journal of Innovative Research in Information Security (IJIRIS) ISSN: 2349-7017(O) Volume 1 Issue 1 (July 2014) ISSN: 2349-7009 (P) , Pp 1-6

10. Dr.S.K.Mahendran, Advanced Security Mechanism for Mobile Ad hoc Networks using Game Theoretic Approach, International Journal of Innovative Research in Advanced Engineering(IJIRAE) ISSN: 2349-2163 Volume 1 Issue 5 (June 2014) Pp 216-220. D

11. Dr.S.K.Mahendran, " Enhanced Reliability Enabled Single-Hop Broadcasting in Mobile Ad-hoc Networks", International Journal of Innovative Research in Advanced Engineering (IJIRAE)ISSN: 2349-2163 Volume 1 Issue 6 (July 2014), Pp 458-461

12 Dr.S.K.Mahendran, " Perfect Malicious Node Avoiding Mechanism for Mobile Ad-Hoc Networks", International Journal of Innovative Research in Advanced Engineering (IJIRAE) Volume 1 Issue 1 (March 2014), Pp 1-6

13 Ms.Mahalakshmi, Dr.S.K.Mahendran, "Multimedia Image Compression (Algorithms And Techniques To Its Related Terms)", IJISET - International Journal of Innovative Science, Engineering & Technology, Vol. 1 Issue 6, August 2014. ISSN 2348 – 7968, Pp 292-299, India

14 Ms. Lakshmi priya and Dr.S.K.Mahendran ," Three Dimensional Modelling : Modelling Three Dimensional Tissue Scaffold Using Functional Representation", International Journal of Engineering Research & Technology(IJERT) NCITSF'14 Conference proceedings ISSN:2278-0181 Pp. 238-237, India

15 C.Rajkumar and Dr.S.K.Mahendran "Vehicle Detection and Tracking System from CCTV Captured Image for Night Vision "IJISET International Journal of Innovative Science, Engineering& Technology, Vol.1 Issue 6,August 2014. ISSN 2348–7968 Pp 454-456, India.

16   D.Ganesh and Dr. S.K Mahendran, "SECURITY IN DATA MINING USING USER ROLE BASED METHODOLOGY" International Journal of Emerging Trends in Computing and Communication Technology, November 2014,Volume1, PP 83-92; ISSN : 2348 4454.

17 D.Ganesh and Dr. S.K Mahendran, "GABOR FILTER PARAMETER OPTIMIZATION USING SHUFFLED FROG HILL CLIMBING OPTIMIZATION" in the refereed journal named Journal of Advanced Research in Dynamic Control Systems [JARDCS] with Vol. No: 9 Special Issue. PP. 646-665/ October/2017 published by ELSEVIER. ISSN : 1943 – 023X

18 D.Ganesh and Dr. S.K Mahendran , "LUNG IMAGE CLASSIFICATION USING HILL CLIMBING APPROACH ON GABORE FILTEROPTIMIZATION" International Journal for Research in Applied Science &Engineering Technology (IJRASET) with Volume 5 Issue XII December 2017;PP : 1339 - 1343; ISSN: 2321-9653.

19 D.Ganesh and Dr. S.K.Mahendran, "IMPROVED GABOR FOR LUNGDISEASE   CLASSICIFICATION" International Journal of Computer Science and Information Technology Research Excellence (IJCSITRE) with Volume : 8 , Issue: 1 , February – 2018.ISSN NO: 2250 – 2734 (print) &2250 – 2742 (online).

20 Lakshmi Piriya s. Dr.S.K.Mahendran Modeling Three Dimensional Primitives using Node based architecture. ISSN: 2349-2163.

21 Lakshmi Piriya s. Dr.S.K.Mahendran Microstructure informed modeling of adulteration evaluation in food- New approaches in modeling to characterize food microstructures. ISSN : 0974-6846 .Online ISSN : 0974-5645.SCOPUS INDEXED.

22 Lakshmi Piriya s. Dr.S.K.Mahendran Discretization of Function Based Astronomical Objects using Procedural Modeling." International Journal of Advanced Computing Science and Technology" SCOPUS INDEXED.

23 Lakshmi Piriya s. Dr.S.K.Mahendran Procedural Function based Modeling of a Diamond crystal microstructure. Journal of Advanced Research in Dynamical and Control Systems Vol. 9. Sp– 12 / 2017. ELSEVIER SCOPUS INDEXED.

24 Mythili, A. and Dr. Mahendran, S.K PRESENTATION STUDY OF DIFFERENT DATA COLLECTION LEVELS, DATA SCHEMES AND MINING TECHNIQUES USED IN VANET International Journal of Information Research and Review Vol. 04, Issue, 04, pp.4019-4023, April, 2017

25 Mythili .A, Mahendran S. K, International Journal of Advance Research, Ideas and Innovations in Technology A Study of 5G Network: Structural Design, Challenges and Promising Technologies, Cloud Technologies ISSN: 2454-132X Impact factor: 4.295 (Volume 3, Issue 6)

26 Mythili .A, Mahendran S. K, Improved QoS-based Clustering Algorithm for VANETs on Highways Jour of Adv Research in Dynamical & Control Systems, Vol. 10, 01-Special Issue, 2018

27 Arati Mohapatro and Dr. S. K. Mahendran.(2019). A Multi-Criteria Performance Evaluation of Hospitals using TOPSIS Method, International Journal of Trend in Research and Development, Volume 6(2), pp.38-40 ISSN: 2394-9333

28 Arati Mohapatro, S. K. Mahendran and T. K. Das (2019). A Framework for Ranking Hospitals Based On Customer Perception Using Rough Set and Soft Set Techniques, International Journal of Healthcare Information Systems and Informatics (IJHISI), Vol.15, No.1 , IGI Global, ISSN: 1555-3396 (Scopus , Web of Science SCI)

29 Shailesh shrivastava, S.K.Mahendran GIS Based Smart Energy Infrastructure Architecture and Revenue Administration published by Springer, Singapore Book Title Digital Connectivity Social Impact Online ISBN 978-981-10-3274-5.

30   Shailesh shrivastava , S.K.Mahendran "Digital ecosystem in social security pensions for direct benefit transfer" ICRIET (International Conference on Recent Innovations in Engineering and Technology) held at Gandhi Institute of Engineering and Technology, Orissa. The paper is being published in SCOPUS indexed journal.

31 Shailesh shrivastava, S.K.Mahendran 6th NAGI International Conference on November 18-20, 2016 at Patna GIS and Mobile based Framework for Flood Management using Satellite Data.

32 Shailesh shrivastava, S.K.Mahendran Research paper on Digital image Watermarking for spatial domain has been published IEEE Journal at International Conference Indiacom-2018 , New Delhi.

33 shailesh shrivastava , S.K.Mahendran Paper on "Internet of Things for e-Governance Applications" in National Seminar on "Internet of Everything: A Roadmap towards Digital India" held on 14 November, 2017, at Patna

34 shailesh shrivastava , S.K.Mahendran Paper on "iBhuGoal GIS framework" in National workshop on "Fostering State Geospatial Strategy" on 13th October 2017 at Patna

35 P. Bakeyalakshmi, S.K. Mahendran, "Enhanced Replica Detection scheme for efficient analysis of Intrusion Detection in MANET", International Journal of Engineering and Technology, vol. 7(1.1),pp. 565-569 2018

36 P. Bakeyalakshmi, S.K. Mahendran, "MABS- Modified Acknowledgment Based Schema for Intrusion Detection and Prevention in MANET", Journal of Advanced Research in Dynamical & Control Systems, vol.10,April 2018 pp. 161-170

37   S.K Mahendran and C.Rajkumar "Enhanced key frame identification and background subtraction methods for automatic license plate recognition of motorcyclists without helmets" ,Material Today Proceedings ISSN No :2214-7853/ October 2020 Elsevier Ltd. https://doi.org/10.1016/j.matpr.2020.10.241 , citation 1.3

38   S.K Mahendran and C.Rajkumar "Archaeological Image Enhancement Using Histogram--Palarch's Journal Of Archaeology Of Egypt/Egyptology 17 (9). ISSN 1567-214x Sep 2020. https://archives.palarch.nl/index.php/jae/article/view/4729 citation 1

(Signature of the Teacher)