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MODERN TRENDS IN
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SUBJECTS**

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CHAPTER NO.	CHAPTER NAME	PAGE NO.
9	INTERNATIONAL TRADE AND BUSINESS IN CONTEMPORARY PERIOD Dr. Manikandan. N. Iyer, Ms. Rameet Syan	56
10	SOCIO-ECONOMIC IMPACT OF COVID-19 ON MIGRANT HOUSEHOLDS IN MUMBAI METROPOLITAN REGION Dr. Manikandan. N. Iyer	61
11	ROLE OF HPTDC IN PROMOTING TOURISM Dr. Nancee	66
12	A COMPARATIVE STUDY OF CONSUMER PREFERENCE TOWARDS COCA-COLA, PEPSI AND MAZA Dr. Seema Mahalak	71
13	HISTORY AND LIFE STYLE OF BADAGAS IN THE NILGIRIS Dr. Saanya Raj. S.R	89
14	THE CHANGE OF INTERFACES: PLAY OF URBANIZATION AND TECHNOLOGY ON HUMAN DEVELOPMENT (GEN Z) Kavya.A	94
15	HISTORY A REVISION DISCOVERY Madhavi Janardan Pawar	127
16	RELATIONSHIP OF METACOGNITION AND APTITUDE IN SCIENCE Mr. Nishant Sharma	132
17	A STUDY ON SEO IN DIGITAL MARKETING FOR SMALL BUSINESS Mrs. B. Anasuya, Dr. R. Shiji	141
18	DATA SCIENCE TECHNIQUES AND TOOLS Ms. Rameshwari Hullule, Mrs. Sapna Bhosare	145
19	SENSITIVE DATA TRANSACTION USING AES ALGORITHM Neha M, Mr D-Syed Ali, Dr.S.Geetha, Dr. K.M.Mohatha	152
20	A COMPUTATIONAL APPROACH TO SOLVE PROBLEMS IN PHYSICS: SIMPLE HARMONIC MOTION Priyanka D. Bhojar	157

CHAPTER 13

HISTORY AND LIFE STYLE OF BADAGAS IN THE NILGIRIS

Dr. Saumya Raj, S.R.¹

Abstract

Culture and heritage playing a predominant role. One such category highlighted here is Badaga tribes who live in the hills of Nilgiris. The Badagas as a category of difference has been framed in terms of homogeneity as a bounded group, isolation in a unique region, and speculations of identity change which mirror old-fashioned views of bounded undifferentiated cultures coming into contact, namely a minority group adopting the culture of the majority, as if change among Badagas is a product of the colonial experience. Similarly, regarding their quality of life, the majority of writings are concerned with imperial history and Western culture to speak for Badagas, which positions the changed way of life in the Nilgiri after the arrival of the British as important and superior to the past. This study attempt at documenting their rich culture and history, is unsatisfactory in both theoretical and practical terms.

Key Words: Badagas, culture, tribes, hill, ancestors, tradition

Introduction

The Nilgiri Hills, known colloquially as the Blue Mountains, rise majestically on the plains of South India: a picturesque mountain-rings cloaked by a greenish-blue mist and blossoming purple flowers. The temperate climate and seasonal rainfall make it a key coffee and tea growing region. It is also a popular tourist destination with a rich cultural and natural history that appeals to many Indian and foreign travellers. The Nilgiri and its peoples have had a long history in anthropology and social science, well known as the home to over a dozen indigenous tribes. In the largely Western-governed literature, Todas have received the most attention as the focus of the majority of publications, whereas Badagas, have received less interest despite being the numerically largest community. Other groups such as the Chettis, Irulas, Kadaris, Kasavas, Kurumbas, Nairas, Paniyas, and Soligas on the lower slopes are relatively unexamined in academic literature.

Social and Cultural Life

The Badagas are an immigrant social group that coexisted with the native tribes - Todas, Kotas, Irulas, Kurumbas, Paniyas and Kasavas - and shared their geography and environment in Nilgiris District. The journey of Badagas is a long and continuous episode which took nearly four and half centuries to emerge successfully among all native tribes from the status of immigrants to that of a powerful community in the Nilgiris. Tradition mentions that the Badagas got migrated from the plains in the south of Mysore region to the foothills of Nilgiris during sixteenth century after the fall of Vijayanagara dynasty in the battle of Talikota (A.D. 1565) due to the threat caused by Muslim invasions and famine occurred in that region.¹ They were set at the foothills of the Nilgiris by temporarily resorting to hoe cultivation and took the similar life of tribals. Hence seeking opportunities and familiarity with the resident tribes of Nilgiris Todas, Kotas etc., moved to the hill tops and survived

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CONTENTS

1. THE PORTUGUESE MISSIONARIES IN INDIA AND THEIR CONTRIBUTION TO TAMIL GRAMMAR - A STUDY	1
U. PRINCE JERANIMAN	
2. A BRIEF NOTE ON THE WRITINGS OF ISAAC ADAMI	1
M. GUNASEKARAN	
3. A STUDY ON THE WORK OF ROBERT CALDWELL AND HIS CONTRIBUTION TO TAMIL LANGUAGE	1
DR. M. PANDURAMAN	
4. A STUDY ON THE DRAVIDIAN LANGUAGES WITH SPECIAL REFERENCE TO TAMIL	1
S. DEEPA LAKSHMI	
5. A STUDY ON THE FOREIGN SUBJECTS OF CHRISTIAN MISSIONARY IN TAMIL LITERATURE	1
R. REVATHI	
6. A STUDY ON THE LIFE OF A TAMIL POETRY KANDAKAR ON TAMIL AND HISTORY	1
IRAVATHI MATHAN	
7. ACCOUNTS OF FOREIGN VISITORS IN INDIA	1
A. RAJAN	
8. BRUCE ROBERT CALDWELL, A DRAVIDIAN LINGUIST - A STUDY	1
DR. C. RAMANJANMATHI	
9. EAST-WEST RESERVATION POLICY IN INDIA	1
ANONIMOUS	
10. A. CHILPANDER SELVAN	1
11. BRITISH MANAGEMENT IN THE WESTERN DISTRICT UNDER RAJAWADE'S ADMINISTRATION	1
S. CHIDAMBARAM	
12. MESTO AND TY TIGER AND THE BIRD OF PREY	1
H. N. RAMIAH	

13. NEW TRENDS IN THE HISTORICAL WRITING OF INDIA - A STUDY	1
V. K. SETHI	
14. PRELIMINARY STUDY ON THE WRITING OF WOMEN	1
P. RAJESWARAN	
15. GURUJI - AN ETHNOLOGICAL NAME OF HISTORY	1
DR. SATHYA NATHAN	
16. NOTICES OF TAMIL AND HISTORY	1
DR. M. S. RAMANATHAN	
17. THE CONTRIBUTIONS OF TAMIL TO TAMIL-LEARNED AND TAMIL LITERATURE	1
DR. P. TALANGAMMAL	
18. THE FEATURES OF SANSKRIT TAMIL LITERATURE	1
DR. R. CHITRA	
19. THE HISTORICAL SIGNIFICANCE IN ARDHANAGARI - A STUDY	1
A. KAVITHA	
20. THE ROLE OF MAHARAJA PARTHASARATHI IN THE HISTORY OF KALAYAR KONE	1
DR. L. MANJUNATHAN KUMARAN	
21. THEOLOGICAL THEMES OF THE TAMILS IN THE KURAN	1
C. PALANI	
22. TRANSITION OF TAMIL FROM PALM LEAF TO COMPUTER SCREEN	1
ANONIMOUS	
23. A CRITICAL ANALYSIS OF JADISM AND THE BELIEF OF CHALUKYAN DYNASTY DURING 11TH CENTURY C.E.	1
RASHID MANZOOR BHAT	
24. JEREMY BENTHAM AND HIS POLITICAL THOUGHTS ON VILLAGES IN SOUTH INDIA	1
DR. R. SATHYANARAYANAN	

14. P.K.ROSY, AN UNFORGETTABLE NAME OF HISTORY

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Department of History, Providence College for Women
(Autonomous),
Coonoor, The Nilgiris

Abstract

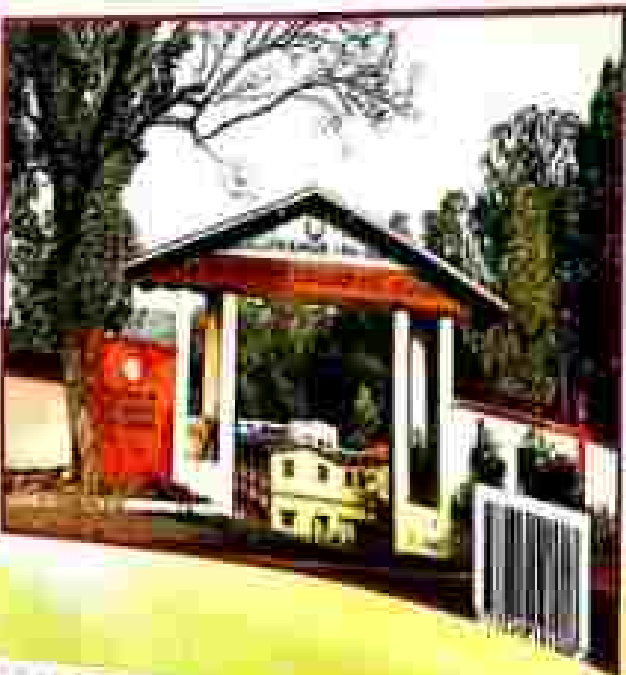
PK Rosy was very keen about arts from a very young age. She starred as the female lead in 'Vigathakumaran (The Lost Child)', a film released in 1928 directed by JC Daniel, the father of Malayalam cinema. Rosy's portrayal as a woman named Sarojini, of an upper-caste family in the film, created a public outcry, as she belonged to the Pulaya community, which is classified as Scheduled Caste. She not only became the first actress in Malayalam cinema but also one of the first Dalit actors in India. In 2019, the Women in Cinema Collective (WCC) launched a film society honouring PK Rosy, and named it 'PK Rosy Film Society'. This act of naming our film society a P K Rosy Film Society is a humble attempt to be sensitive and to take note of all those who have been excluded from dominant cinema histories through their gender, caste, religious or class locations and our own imagination, and have been brought to light by many a scholars, historians and activists.

Key Words

Dalit, Racism, Gender, Malayalam Cinema, Caste System

Introduction

Films are an academic medium for historiography. The picture is worth a thousand words. When viewing a film through



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2



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Volume : Architecture, Madonna Arts & Science College for Women
Viraganur, Madurai - 625 009.

12. 'NEW TRENDS OF THE HISTORICAL WRITINGS ON ADIVASIS - A STUDY'	71
V. KAVITHA	
13. PERIYAR'S VIEWS ON EMPOWERMENT OF WOMEN	83
C. RAJESWARI	
14. P.K. ROSY, AN UNFORGETTABLE NAME OF HISTORY	89
Dr. SAUMYA RAJ. S.R.	
15. SOURCES OF TAMIL AND HISTORY	98
Dr. SHANI RUSKIN R.	
16. THE CONTRIBUTION PERIYAR TO TAMIL ALPHABET AND TAMIL LITERATURE	104
Dr. P. PALANIAMMAL	
17. THE FEATURES OF SANGAM TAMIL LITERATURE	110
Dr. B. CHITHRA	
18. THE PREHISTORIC ANTIQUITIES IN ADICHANALLUR - A STUDY	116
N. KAVI EZHIL	
19. THE ROLE OF MARUTHU PANDIYAN IN THE HISTORY OF KALAIYAR KOVIL	122
Dr. L. MANGAYARKARASI KUMARAN	
20. THEOLOGICAL THEMES OF THIRUVALLUVAR IN THIRUKKURAL	129
C. PALANI	
21. TRANSITION OF TAMIL FROM PALM LEAF TO COMPUTER SCREEN	133
22. A CRITICAL ANALYSIS OF JAINISM AND THE RULERS OF CHAUHAN DYNASTY DURING 12TH CENTURY C.E.	140
RASHID MANZOOR BHAT	
23. PERSIAN AMBASSADOR ABDUR RAZZAK'S ACCOUNTS ON VIAJAYA NAGAR EMPIRE	149
Dr. R. SATHIYABAMA	

15. SOURCES OF TAMIL AND HISTORY

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Abstract

Tamil Nadu has an ancient history, but it has not been fully revealed. Lack of evidences, unauthorised source materials are the setback for that. The paper reveals that Tamil people have an ancient glory and heritage. The foremost source of ancient Tamil history is the Sangam literature, generally dated to the last centuries BCE to early centuries CE. Many of the forts, temples and palaces situated in Tamil Nadu remind one of the rich architectural value and heritage of the past. Stone inscriptions play a very prominent role in establishing the theories formulated in confirming the historic facts relating to ancient history of Tamil Nadu. In addition, literary sources provide a vivid description of the status of the lifestyle, the internal and external cultural norms, taboos, social divisions, casteism, economic activity, poverty, primary vocation etc.

Key Words: Tamil Nadu History, Authentic work, False ideas, proved the past.

Introduction

Archaeological records tell that the region known as Tamil Nadu has been continuously inhabited since the Upper Palaeolithic age. In its recorded history, Tamil Nadu was home to three ancient dynasties, that is, the Chera, the Chola and the Pandya. By the end of the 13th century, rapid changes in the



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**PERSONALITIES WHO PROMOTED
 TABLE AND HISTORY**

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24. A HISTORICAL ANALYSIS OF THE ROLE OF SWADESAMETRAN FOR THE PROMOTION OF TAMIL LITERATURE IN THE TWENTIETH CENTURY		25
M. R. PATHMAWATHY		
25. ULAYAR'S RASU - CONTRIBUTION TO TAMIL DRILL	26	
M. R. PRAVEENA DEVI		
26. CONTRIBUTION OF ROMILA TRIPATHI IN REJUVENATION OF ANCIENT HISTORY	27	
Dr. P. MALAR VIJZI		
27. HISTORICAL BACKGROUND AND LIFE OF THE THREE SPECIAL STUDY ON THE KULI ARBANS OF THE TAMIL	28	
DR. SUDHAN		
28. HISTORICAL SOURCES TO CONSTRUCT TAMIL SOCIETY'S HISTORY	29	
Dr. FEMILA ALEXANDER		
29. PERSPECTIVE OF SACRED IN RELIGIONS	30	
DR. A. SEBASTIAN MAHESWARAN		
30. POLITICAL HISTORY OF EARLY PANDYAS A STUDY	31	
M. RAMANI		
31. INCOME SOURCES OF UNDER THE CHOLAS - A STUDY	32	
T. NATHERAPPAH		
32. SOURCES FOR THE STUDY OF EARLY TAMIL POETRY	33	
Prof. Dr. G.P. SUDHAR		
33. SOURCES AND EVIDENCE OF TAMIL AND HISTORY	34	
DR. R. MUTHAMIL SELVI		
34. MUTILLAKKUMI RASU - A SOCIAL SOURCE	35	
Mrs. N. NAGALATHA		
35. RECONSTRUCTION OF RELIGION IN SOUTH INDIAN SOCIETIES	36	
MEERAZHARAN		
36. ADVANCEMENTS AND EFFECTS OF INTERNATIONAL COMMERCE IN TAMIL AND INDIA DURING THE FIRST WORLD WAR BY DR. ANSARI	37	
B. MOHAMED-GHAZAL		
37. MISCELLANEOUS POEMS BY THE VELLORE LANGUAGE FACULTY WITH BEANS, SAFFRAN AND BRITISH SUPERSTITION	38	
R. SIVAPRAKASHI		
38. TEMPLES: TEMPORARY HOSTILITIES TO MAINTAIN INTEGRITY OF THEIR NAME	39	
M. RAJESHKUMAR		
39. CANNON FIVER, STANLEY BRIDGES, METTUR DAM - PAST AND PRESENT	40	
S. RAJKAMAL		
40. LEGAL JUDICIAL VIEW ON VIJAYANAGAR CHIEFS	41	
Dr. S. LALITHA		
41. R. A. SUBRAMANIAN IYER'S CONTRIBUTION TO TAMIL DRAMA THROUGH	42	
NAVARAJAGANATHAN BOORATHIL		42
42. SOCIAL ECONOMIC RELEASE OF TAMIL WOMEN	43	
R. GANGA		43
43. SOCIAL AESTHETICS FOOT OF A POET AS SEEN IN TAMIL POETRY	44	
DR. C. JUSTIN SEEVARAJ		44
44. HISTORIOGRAPHY OF TAMIL NAGAR HISTORY	45	
K. VISWANATHAN		45
45. TRANSITION OF TAMIL LANGUAGE OVER THE AREA & CONTRIBUTION OF MINAPALAI	46	
SEALAKSHMI		46
46. POLITICAL INFORMATION IN INDIA AND THE EAST INDIA COMPANY	47	
S. VISAKARAN		47
47. CONTRIBUTION OF TAMIL LITERATURE UNDER THIRUMALAI KADAVUR UPASATHI AND PATRONAGE OF TAMIL LITERATURE UNDER THIRUMALAI KADAVUR UPASATHI	48	
Dr. R. NAGALATHA		48

27. HISTORICAL BACKGROUND AND LIFE OF THE TRIBES-SPECIAL STUDY ON THE KURUMBAS OF THE NILGIRIS

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Introduction:

The people of the Nilgiris district prior to the occupation of the British since 1819, consisted of the Todas, Badagas, Kotas, Kurumbas, Irulas, Paniyas, and Kadu Naickans.

The kurumba tribes in the nilgiris district are known by several names such as kuruman, kurumba, kuruba etc. The kurumbas of the hills comprise one of the now scattered remnants of a once powerful people. Composed of numerous small tribes which again sprang from a race of nomadic shepherds, one of the great dravidian group, who inhabited the peninsula of south india before the historic period. The word kurumba means a **shepherd**. The kurumbas occupy the thickly forested slopes, glens, and foothills of the nilgiri plateau.

Traditionally the kurumbas have subsisted

as hunters and gatherers, living in jungles on the steep edges of the plateau. They practice shifting cultivation and the foraging and trapping of small birds and animals. Early settlements were usually isolated, with kurumbas living in caves or rock shelters, in dwellings near forest clearings or in houses or huts in small hamlets. Bananas, Mangoes, Jack fruit, maize and chillies were the usual garden produce today, with increasing population and deforestation the kurumbas have been forced



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CONTENTS

1.	THE PORTUGUESE MISSIONARIES IN INDIA AND THEIR CONTRIBUTION TO TAMIL GRAMMAR—A STUDY	
	I. PRINCE JERAKUMAR	
2.	A BRIEF NOTE ON THE WRITINGS OF ISAK ANNALEU	
	SE. GUNASEKARAN	
3.	A STUDY ON THE BISHOP ROBERT CALDWELL AND HIS CONTRIBUTION TO TAMIL LANGUAGE	
	DR. M. PANDIKKAM	
4.	A STUDY ON THE DRAVIDIAN LANGUAGES WITH SPECIAL REFERENCE TO TAMIL	
	S. DEEPAKSHMI	
5.	A STUDY ON THE FOREIGN SCHOLARS OF CHRISTIAN MISSIONARY IN TAMIL LITERATURE	
	R. REVATHI	
6.	A VIEW ON G. G. POPE AS A FOREIGNER SCHOLAR ON TAMIL AND HISTORY	
	JAYANTHIMALAKEERTHI	
7.	ACCOUNTS OF FOREIGN VISITORS IN INDIA	
	A. RAJINI	
8.	BISHOP ROBERT CALDWELL: A DRAVIDIAN LINGUIST—A STUDY	
	DR. C. RAMALAKSHMI	
9.	CASTE BASED RESERVATION POLICY IN INDIA—AN OVERVIEW	
	MR. P. AREL PANNER SELVAM	
10.	IRRIGATION MANAGEMENT IN TIRUNELVELI DISTRICT UNDER R.K. PUCKLE'S ADMINISTRATION	
	S. CHOKKAIAH	
11.	MINTO MORLEY REFORMS AND THE HINDI PRESS	
	Dr. V. RAMYA	

5. A STUDY ON THE FOREIGN SCHOLARS OF CHRISTIAN MISSIONARY IN TAMIL LITERATURE

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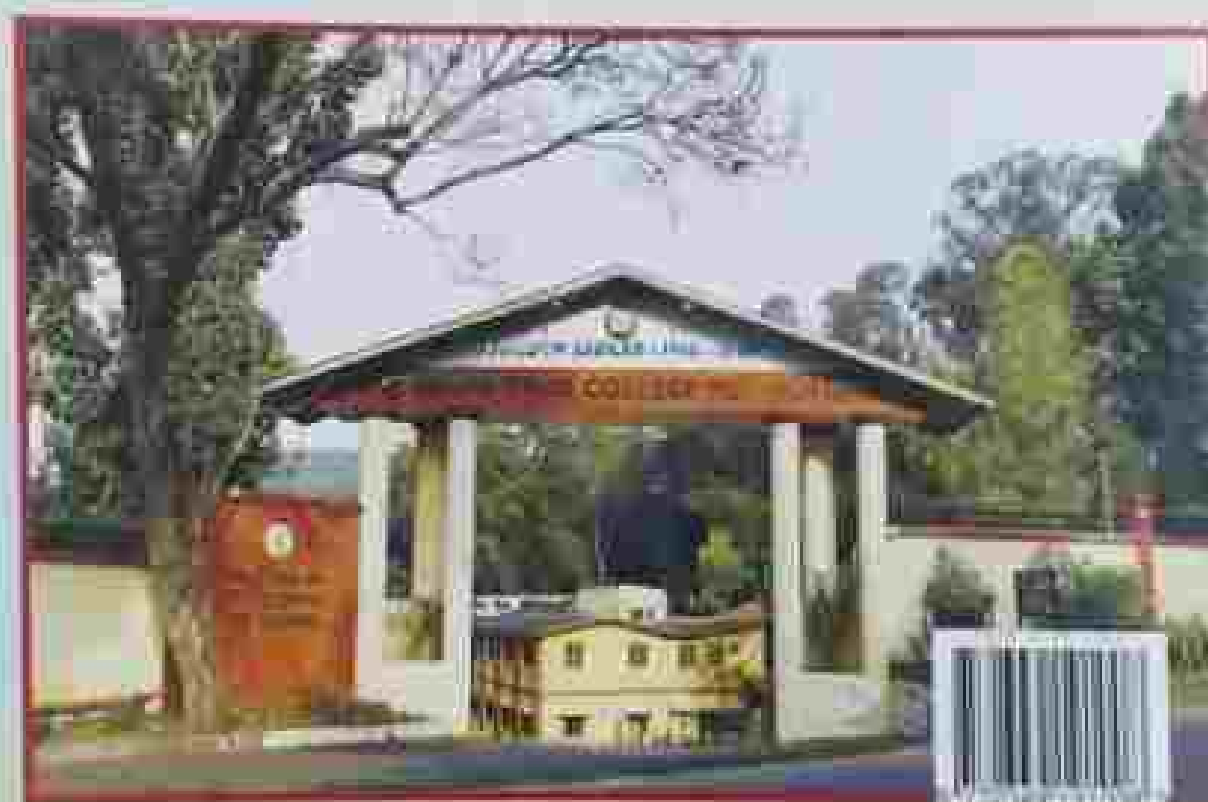
Abstract

The Christian missionaries through their service to the local people in Tamilnadu find a place for themselves. Robert de Nobili was an Italian by birth. He established a mission at Madurai and preached Christianity for nearly 50 years. Constantine Joseph Beschi was a native of Castiglione in Mantua. He started his missionary work in the Thirunelveli district. Caldwell was born in Ireland. He has settled at Thirunelveli for missionary works. Rev. George Uglow Pope came from England and contributed much for the Tamil language. He rendered service in the Holy Trinity Church, Ootacamund.

Key word: Christian, Language, Missionary, Tamil and Scholar

1.1 Introduction

The European traders contact brought Christianity to the Tamil country. The Christian missionaries from Portugal, Dutch, Germany, France and England tried to spread their religious beliefs. This attempt indirectly influenced the development of Tamil literature. Later the Arab traders established commercial



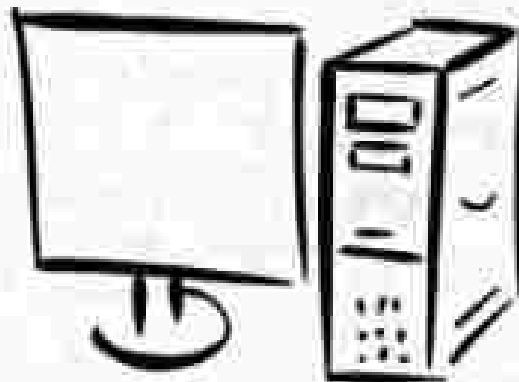
Fundamentals *of* Computer



Dr. K. Santosh Kumar



FUNDAMENTALS OF COMPUTER



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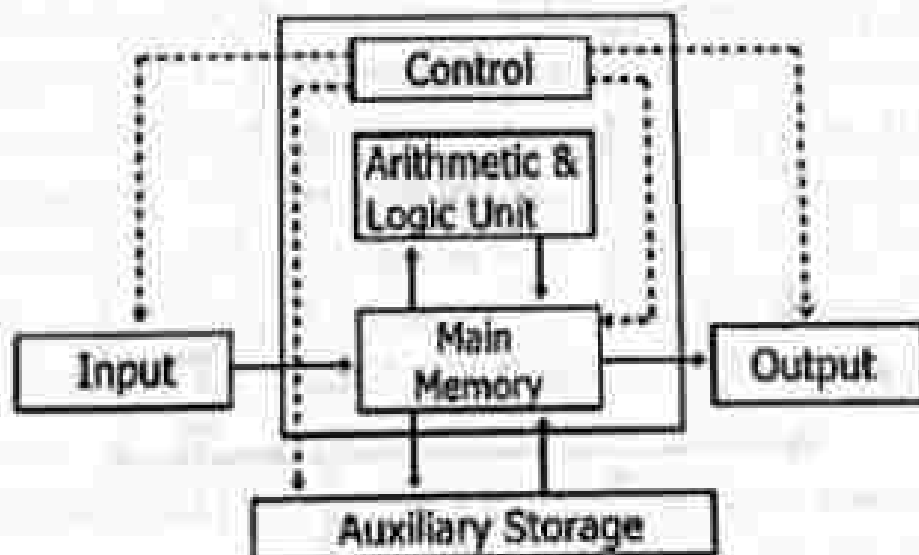
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INDEX

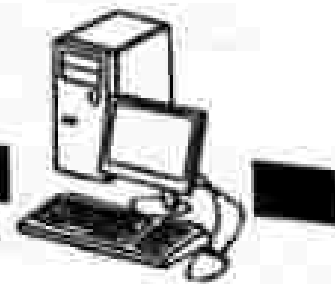
1. Interconnection between Functional Components	2
2. Memory	6
3. Input Devices	8
4. Output Devices	13
5. Processor Families	21
6. Storage Device	22
7. Random Access Memory (RAM) and Read Only Memory (ROM)	23
8. Generations of computer	26
9. Classification of Computer based on Size, Processors	29
10. Importance of Binary Number in Computer System	31
11. Number systems	32
12. Need for an Operating system	34
13. Files and Directories	36
14. Features of window Desktop	37
15. Components of Windows	39
16. Method of starting a program using Start button	41
17. Maximizing, Minimizing, and Closing a Window	42
18. Windows Explorer	43
19. Viewing All Files	44
20. Install and Uninstall a Software using Control Panel	46
21. Installing a Printer using Control Panel	48
22. Steps for Changing the System date and time	50

23. Computer Network.....	51
24. ISP (Internet Service Provider).....	53
25. Modem.....	54
26. Purpose of Web Browser Software.....	55
27. Internet versus Intranet.....	57
28. World Wide Web.....	58
29. Different Types of Internet Connections.....	60
30. IP (Internet Protocol).....	62
31. Most Popular Social Media Sites.....	64
32. Steps for Problem Solving.....	67
33. Comparison between Algorithm and Flow Chart.....	69

COMPUTER FUNDAMENTAL



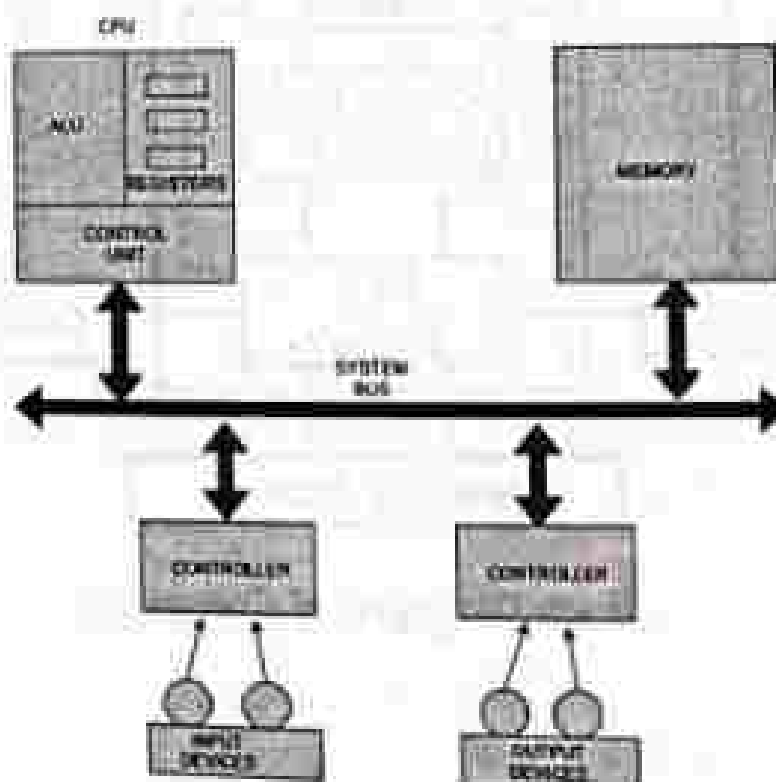
Block Diagram of Computer



1

INTERCONNECTION BETWEEN FUNCTIONAL COMPONENTS

A computer consists of input unit that takes input, a CPU that processes the input and an output unit that produces output. All these devices communicate with each other through a common bus. A bus is a transmission path, made of a set of conducting wires over which data or information in the form of electric signals, is passed from one component to another in a computer. The bus can be of three types – Address bus, Data bus and Control Bus.



The address bus carries the address location of the data or instruction. The data bus carries data from one component to another and the control bus carries the control signals. The system bus is the common communication path that carries signals to/from CPU, main memory and input/output devices. The input/output devices communicate with the system bus through the controller circuit which helps in managing various input/output devices attached to the computer.

- i. **Input Unit:** The input unit consists of input devices that are attached to the computer. These devices take input and convert it into binary language that the computer understands. Some of the common input devices are keyboard, mouse, joystick, scanner etc.
- ii. **Output Unit:** The output unit consists of output devices that are attached with the computer. It converts the binary data coming from CPU to human understandable form. The common output devices are monitor, printer, plotter etc.
- iii. **Central Processing Unit (CPU):** Once the information is entered into the computer by the input device, the processor processes it. The CPU is called the brain of the computer because it is the control center of the computer. It first fetches instructions from memory and then interprets them so as to know what is to be done. If required, data is fetched from memory or input device. Thereafter CPU executes or performs the required computation and then either stores the output or displays on the output device. The CPU has three main components which are responsible for different functions – Arithmetic Logic Unit (ALU), Control Unit (CU) and Memory registers
- iv. **Arithmetic and Logic Unit (ALU):** The ALU, as its name suggests performs mathematical calculations and takes logical decisions. Arithmetic calculations include addition, subtraction, multiplication and division. Logical decisions involve comparison of two data items to see which one is larger or smaller or equal.

Fundamentals of Computer



This Computer Fundamentals manual promises to make this adventure easy and interesting for you through its step by step procedures and illustrations. It is fully illustrated to make learning computers fun and interesting for all.

It was needed to build problem solving skills among the students just before they enter the professional courses and this book has been published as per the CBCS syllabus.

This book provides the students not just the knowledge about the fundamentals of a computer system like its organization, memory management and hardware device, but also the software that runs on it.

*Dr. K. SANTHOSH KUMAR,
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discussion.Heartfelt thanks to my
parents.

Contents

Foreword

Preface

Acknowledgements

Acknowledgements

Acknowledgements

Acknowledgements

Acknowledgements

Prologue

Author Details

1. Introduction to Educational Technology
2. Learning in the Context of Technologies
3. Linking Learning Objectives, Pedagogies, and Technologies
4. Users Perspective of Educational Technology
5. Learner Experiences with Educational Technology
6. Social Learning Perspective of Educational Technology
7. Designing Learning Activities and Instructional Systems

8. Learning Space Design

9. Educational Project Design and Evaluation

10. Design-Based Research

11. Design Methodology

12. Emerging Issues in Educational Technology.

The Scope of Educational Technology

Technology-Enhanced Learning

Skills of Teaching Methods

Principles of Teaching

Perspectives of Educational Technology Systems

Perspective of Educational Technology

Educational Technology Systems

Experience and Learner Experience

Social Learning

Learning Activities

Space Design

Project Design

Research Dimension

Research Analysis

Works of Research Technology

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Introduction to Educational Technology

Chapter Outline

- **Introducing educational technology**
- **A brief history of educational technology**
- **The scope of educational technology**
- **Dimensions of educational technology**
- **Educational technology perspectives**
- **Emerging technologies and changing contexts**
- **Roles of educational technologists.**

By the End of This Chapter, You Should Be Able To

- Classify the key concepts and principles of educational technology
- Recall the history of educational technology
- Clarify the scope, dimensions, and perspectives of educational technology
- Reflect on the roles of educational technologists.

Main Learning Activities

1. According to Merrill, Tennyson, and Posey, to teach a concept involves pointing out examples and non-examples, citing a rule or principle or criterion to distinguish examples from non-examples, and providing opportunities to practice and get informative feed-

Learning in the Context of Technologies

Chapter Outline

- Behaviorism
- Cognitivism
- Constructivism
- Other learning theories
- Technology-enhanced learning.

By the End of This Chapter, You Should Be Able To

- Clarify the background and main ideas of different learning theories
- State the relationship of technology and learning theories
- Describe the impact of learning theories on teaching, in-

cluding behaviorism, cognitivism, constructivism, connectivism and humanism

Main Learning Activities

1. Think about what is learning and the advantages and disadvantages of program instruction and discuss with your peers.
2. Think about the characteristics and functions of sensory memory, short-term memory, and long-term memory as well as the implications of information processing theory for instruction. More specifically, how would you characterize your response to the discussions of behaviorism and cognitivism? Were you passive as a reader or were you processing what you read and creating ideas or cognitive structures?



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IoT for Green Technology

Dr.K.Santhosh Kumar

Computer science and Applications

Abstract

The Internet of Things (IoT) is a cutting-edge technological paradigm that aims to make communication possible amongst billions of networked objects all over the world. The Internet of Things (IoT) is being used in many different fields, including smart healthcare, traffic surveillance, smart homes, smart cities, and numerous industries. The primary role of the Internet of Things is to sense the environment around it, collect data from it, and transfer that data to distant data centres or the cloud. The massive amount of data being shared by billions of IoT devices creates a high energy demand and increases energy waste in the form of heat. The Green IoT envisions lowering IoT device energy consumption while maintaining a safe and clean environment. We first provide an overview of Green IoT (GIoT), and then the problems and the future directions with regard to the GIoT are discussed in our study. This study is motivated by attaining a sustainable next generation IoT ecosystem and directing it towards making a healthy green planet.

Keywords: IoT, Green IoT, GIoT, Green Computing, Green IT

1.Introduction:

IoT-related technologies are increasingly permeating every aspect of our life. IoT is expected to develop into a revolutionary technology that will alter the course of our world. With the help of this IoT, billions of digital gadgets might be connected. It is often referred to as the improved form of machine-to-machine (M2M) communication, in which each digital object or machine speaks to each other without human intervention. IoT and associated technologies include a range of hardware, including actuators, sensors, network gateways, and mobile devices connected via the Internet. These things or items may detect their surroundings, transmit data, and engage in a variety of interactions with one another [1,2,4]. Like all gadgets, IoT devices require energy to operate and function, but in some circumstances, these devices use. For the benefits of economy and the security of our environment, this waste of energy and unneeded heat should be eliminated. The most recent technical developments and the exponential increase in the number of operational IoT devices raised the energy demand necessary for device functionality. This sparked interest in GIoT, or IoT that uses less electricity.

Energy consumption rates have risen to distressing levels due to the broad scope of the digital world and the numerous energy-hungry digital devices. Scientists anticipate a tremendous data rate and enormous content size at the cost of exceptional carbon emissions into the atmosphere due to the rising use of linked IoT devices and the amount of data generated and transmitted via the IoT infrastructure. According to the most recent report, carbon dioxide emissions from cellular networks are expected to reach 345 million tonnes by 2030 and increase yearly. Therefore, due to these significant carbon dioxide emissions and the problems with the environment and public health, clean or green.

2.Architecture and the Applications of IoT

Architecture of IoT

Many researchers have proposed different IoT architectures. But there is no single unit of IoT architecture that is generally agreed upon. The most well-known IoT architecture comprises three layers namely the perception, network, and the application layer, as depicted in Fig 1.

S. Gowri, R. Seetha Kumar(ed)

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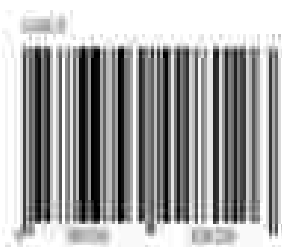
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16	ETD_CSMAT - 010	A Study on Cloud Computing and Its Applications in Automating and Digitizing the Industries <i>A. Lakshana Devi, K. Harish Ponnai and Dr. B. P. Sreejith Vijayaraj</i>	39
17	ETD_CSMAT - 017	Small Scale Pedestrian Detection Based On Neural Network <i>P. Divyika, G. Madhuganesh and Dr. S. Kiranji</i>	65
18	ETD_CSMAT - 018	A Survey on Automation in Bag Recovery <i>S. Mohan Kumar and M. Srihar</i>	72
19	ETD_CSMAT - 020	File Protection Using File Deduction <i>S. Divya Dharshini and S. Manu Srinivas</i>	78
20	ETD_CSMAT - 021	Predictive Analytics with Machine Learning <i>MS. Anand and Dr. C. Deepa</i>	80
21	ETD_CSMAT - 023	A Review of Facial Recognition System Using Advanced Technologies <i>Anurita Verma</i>	86
22	ETD_CSMAT - 024	Plane Layer Detection in PVLT Images using Lateral Boundary Estimation By Slope Estimation Approach with Hausdorff Distance Measurement <i>Dr. S. Sridevi and S. Padmapriya</i>	89
23	ETD_CSMAT - 025	A Study on Data Mining Applications <i>R. Jasmine and R. Usha Devi</i>	94
24	ETD_CSMAT - 026	Image Processing for Finger Vein Recognition Using the Tri-Branch Vein Structure <i>Dr. K. Sambhaji Kumar</i>	97
25	ETD_CSMAT - 027	A Study on Mobility and Handoff Management in Wireless Networks – VANET <i>D. Manojika and M. Manojika</i>	100
26	ETD_CSMAT - 028	A Study on Various Systematic Classification Performs on Clustering in Mobile Ad-hoc Network <i>A. Divya and B. P. Sreejith Vijayaraj</i>	104
27	ETD_CSMAT - 029	Prevention of Data Theft Attacks Using Artificial Intelligence <i>M. Lincy Anupama and E. Deepa Sree</i>	109
28	ETD_CSMAT - 031	Get Started with Solving Quantitative Reasoning Problems Using Natural Language Processing Models <i>Komaladevi Vijayaraghavan and M. Srihar</i>	112
29	ETD_CSMAT - 032	A Study on Impact of Digital: Its Applications, Challenges, Opportunities in the Industries <i>A. Sreeraja, C. M. Annapoornim and Dr. B. P. Sreejith Vijayaraj</i>	118
30	ETD_CSMAT - 034	Robotic Process Automation based detection of Diabetic Retinopathy in Healthcare <i>P. S. Vijayalakshmi and Dr. M. Arul Kumar</i>	121
31	ETD_CSMAT - 035	Artificial Intelligence <i>Dr. S. Preethi, K. Sathya and K. Santhiya</i>	123
32	ETD_CSMAT - 036	Machine Learning and Applications <i>Dr. S. Preethi, V. Mallikarjun and P. Mahendran</i>	128

Image Processing for Finger Vein Recognition Using the Tri-Branch Vein Structure

Dr. K. Sathish Kumar

Computer Science and Applications
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Abstract—If the number of vein locations that the probe overlaps with the registered test exceeds a predetermined threshold, it will be accepted in template matching for finger vein recognition. The acceptance may be flawed as a result of disregarding the structure of the vein pattern. The local vein branches in the fabrication of the vein pattern reveal considerable variances between the fake probes. This research makes an effort to look at this kind of local vein structure in order to improve the efficiency of template matching. The tri-branch vein structure, a bifurcation point and its nearby vein branches, are separated from the vein pattern and combined with the overall vein pattern using a non-specific, threshold-based filter mechanism. The usefulness of the proposed framework for enhancing the performance of vein pattern-based finger vein detection is demonstrated by experimental findings on two open datasets.

I. INTRODUCTION

IN order to verify an individual's identity, finger vein recognition uses the vein pattern on the finger's palmar side. Near-infrared light typically records the vein pattern because other finger tissue transmits the light easily while the light can be massively absorbed by the haemoglobin in the vein. Finger vein has superior security as an internal physiological property compared to other exterior biometric traits (such as face and fingerprint) since the trait is more difficult to copy or steal. The ability to identify a living body, which allows for the capture of only the vein in a finger belonging to a living person, is yet another particular benefit of finger veins. Finger vein recognition has garnered a lot of interest recently and has demonstrated some encouraging recognition performance.

There are two types of methods for extracting characteristics that are currently employed in finger vein recognition: methods that use vein patterns and methods that don't. Regardless of how vein pattern and non-vein region differ from one another, the first class of algorithms either focuses from the full finger vein image, including typical local traits like local binary pattern (LBP), local line binary pattern, etc. (LLBP)

The second group of methods, however, uses the extracted vein pattern or a part of it exclusively for recognition. Since only vein pattern, without non-vein region, is used, vein pattern based approaches are expected to examine the intrinsic finger vein recognition. Gabor filters were able to determine the vein pattern from the vein image of one finger. The vein pattern extraction algorithms were created using the imaging characteristic of finger veins—that is, the vein pattern's lower grey value than the non-vein points that are nearby—in its

formulation. These strategies can be categorized into three groups based on the value used in vein point detection.

- 1) Grayscale techniques: the distribution of grey values was used to find vein points by wide line detectors, repeated line tracking, region development, and other techniques. The considered grey values in the first two approaches come from the cross-sectional profile of the current point, but in the third approach, the values come from the circular neighborhood region.
- 2) Curvature value-based techniques, second: The four most common techniques in this field are maximum curvature point, adaptive curve transformation, anatomical structural analysis-based vein extraction (ASAVE), and mean curvature. The curvature values of a one-dimensional cross-sectional profile were used in the first three procedures and again in the final method.
- 3) Methods based on convolutional response: Gabor filters were used to detect vein patterns in which Gabor templates were used to detect the vein pattern.

The primary focus of this study is on improving recognition performance for template matching. If the number of overlapping vein spots between the enrolled and probing images exceeds a predetermined threshold, template matching will accept the probe image. However, even with many overlapped vein points, the architecture of the enrolled vein pattern and the probe vein pattern may differ, resulting in an incorrect acceptance. As a result, the vein structure could help with template matching.

II. ANALYSIS OF PROBLEM

To aid template matching by vein structure, we must address two issues:

First, consider the vein structure's usability. Although the vein structure is extracted from the vein pattern, the vein pattern was also used in the template matching. So, does the vein structure's assistance with template matching work, or is it the second use of vein pattern in vein structure assistance?



Fig. 1. Vein Pattern

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	Genotypes under Eight Different Environments – Aditi, Srita Rani	
27	Protein-based metal bio-cleaver for detoxification of wastewater – Valappil Sathu, Nivikumar Ayyathara	45
28	Development and nutritional evaluation of value added biscuits supplemented with pomegranate seed powder – Neha, Veena Sarwan	46
29	In vitro biological activities of plant-associated <i>Sorotium</i> fungal strains in Vietnam – Ho Ly Phuong, Hoang Kim Chi, Le Hau Quang, Nguyen Tien Quan, Tran Thi Hong Ha, Tran Thi Nhu Hong	47
30	Scum forming Cyanobacterial algae from Dori Dam, Jalgaon (M.S.) – Archana Chaudhari	48
31	Review for a SaaS based cloud attack – Manishi Srani, Upendra Nath Tripathi	49
32	Mobile Cloud Computing : Taxonomy and Challenges – Rajan Kumar Yadav, Upendra Nath Tripathi	50
33	Extraction and antihelminthic activity of <i>Azadirachta indica</i> leaves – Himant F. Suryawanshi, Rina H. Suryawanshi	51
34	Design and Development of Multilingualistic talking bot for learning & educating Children for Child Abuse – Siddhant Srivastava, Abhishek Verma, J. Ramkumar, Rohit Kumar	52
35	An Intervention Study to Analyze Influence of Genetic and Environment on Intelligence of Twins in Early Childhood – Arnu, Binla Dhanu, C. K. Singh	53
36	A Study on Nano Pre Generalized Pre Regular Continuous and Nano Pre Generalized Pre Regular Involutive Functions in Nano Topological Spaces – M. Manisha, Dr.M. Anitha	54
37	Resource allocation management and node-level fault tolerance using adaptive particle swarm optimization and first fit heuristic algorithm over grid computing – Dr.K.Santhosh Kumar, Ms. Keethana Sundar Raj	55
38	Chromosomal mediated Colistin Resistance gene <i>MCR-1</i> among Gram Negative Clinical Isolates in Jaipur, Rajasthan, India: First Report – Praveen kumar gautam, Dr. Shama Tattar	56
39	Calculation of Mean: Utility of Kaudan's Formula – Vashav Kaudari	57
40	Comparative Study of Traditional and Vedic Multiplication Method at upper primary level – Dr. Alok Sharma	58
41	E-hydro-Faunal Diversity and Conservation Strategies of River Sang in Arunachal Pradesh, India – Dr. Biplab Kumar Das	59

RESOURCE ALLOCATION MANAGEMENT AND NODE-LEVEL FAULT TOLERANCE USING ADAPTIVE PARTICLE SWARM OPTIMIZATION AND FIRST FIT HEURISTIC ALGORITHM OVER GRID COMPUTING

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Abstract: Grid Computing Systems, with their focus on Creative applications, high-performance orientation and large-scale resource sharing, have emerged as a significant new field. One of the important goals in any computational grid environment is to achieve effectual allocation with fault tolerance to complete the task on time. Optimal resource allocation and the fault tolerance system's failure rate remain a problem in the current system. To address the abovementioned issues, The Fit First(FF) heuristic algorithm and the Adaptive particle Swarm Optimization (APSO) algorithm are proposed in this research to improve grid system efficiency and resource allocation. The proposed system involves resource allocation using the APSO algorithm, path and node-level fault tolerance, and multiple resource formation using the FF heuristic algorithm for better efficiency. Consider the number of tasks, number of resources and number of grid users at first when considering grid computing. The APSO algorithm is used to select more optimal resource efficiently in this work, and it is used to control resource allocation. The optimal tools for the user requirements are chosen by generating objective functions using the best fitness value.

Key Words: Grid computing, Adaptive Particle Swarm Optimization (APSO) algorithm, Fit First (FF) heuristic algorithm, fault tolerance, resource allocation.



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20	SCRUTINIZE IN IMPROVING PERFORMANCE & INTENSIFY SECURITY IN IoT ONLINE SOCIAL NETWORKING Hemalatha R Devipriya K	111
21	EARLY BIPOLAR DISORDER PREDICTION USING HYBRID NEURAL NETWORKS R. Saranya, Dr. S. Kiraimathi,	114
22	DETECTION OF EARLY STAGE OF ALZHEIMER'S DISEASE USING HYBRID SVM CLASSIFIER WITH 3D CNN ARCHITECTURE Hemalatha R Subathra Devi L	120
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24	A REVIEW PAPER OF CLASSIFICATION IN DATA MINING S. D. Barkath Unisha	130
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26	TO DETECT - HOW THE USAGE OF MASK MODERATE THE SPREAD OF COVID - 19 USING SIMULATOR P. R. Parneda Rani	139
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28	ARTIFICIAL INTELLIGENCE AND ROBOTICS Dhanya.S	149
29	ANALYSIS AND IMPLEMENTATION OF MQTT (MESSAGE QUEUING TELEMETRY TRANSPORT) PROTOCOL G. Umasankar, Dr. N. Basilur	154
30	INTERNET OF THINGS IN EDUCATION - A REVIEW Dr. G. Yashodha	158
31	SCRUTINIZE IN IMPROVING PERFORMANCE & INTENSIFY SECURITY IN IoT SOCIAL NETWORKING SITES Dr. R. Hemalatha, Mrs. K. Sajeena	162
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EFFECTIVE FOG DETECTION AND REMOVAL IN IMAGE PROCESSING USING A PRIOR METHOD

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Abstract

Images degrade due to the presence of air light in foggy weather conditions. This is caused by fog particles scattering light. Road accidents occur more frequently at night than during the day due to the presence of dense fog. To avoid road accidents, a method for detecting the presence of night fog and characterizing its density in images captured by an in-vehicle camera is introduced. It detects the presence of fog around a vehicle using the back-scattered veil created by the headlights. A correlation index is calculated between the current image and a reference image where the fog density is known. It works when the vehicle is alone on a highway with no external light sources. The halo segmentation method is used to assess the presence of fog by detecting halos around light sources ahead of the vehicle. It is compatible with oncoming traffic and public lighting. However, the coloring method is ineffective for removing dense fog. As a result, in the proposed system, the technique known as improved dark channel prior method is proposed, which is used to remove fog more effectively. It is used to obtain a more accurate result by estimating atmospheric light in the fog image. Prior to estimating the transmission model in the dark channel, it acts as a minimum filter for least concentration. This filter may produce halo artifacts, particularly near edge pixels. To obtain a fog-free image, a bilateral filter-based algorithm is used to measure the value of the neighbor. The superiority of the output image and the calculation cost of the removal of fog procedure are improved by the bilateral filter with the improved dark channel prior approach.

1. INTRODUCTION

Image Processing is a technique to enhance raw images received from cameras/sensors placed on satellites, space probes and aircrafts or pictures taken in normal day-to-day life for various applications.

Various techniques have been developed in image processing during the last four to five decades. Some of the techniques are developed for enhancing images obtained from unmanned spacecrafts, space probes and military reconnaissance flights. Image Processing systems are becoming popular due to easy availability of powerful personal computers, large size memory devices, graphics softwares etc. Image analysis is concerned with making quantitative measurements from an image to produce a description of it. In its simplest form, this task could be reading a label on a grocery item, sorting different parts on an assembly line, or measuring the size and orientation of blood cells in a medical image. More advanced image analysis systems measure quantitative information and use it to make a sophisticated decision, such as controlling the arm of a robot to move an object, identifying it or navigating an aircraft with the aid of images acquired along its trajectory. Image analysis techniques require extraction of certain features for aid in the identification of the object.

Camera based driving assistance system is one of the core technology trends in intelligent vehicles. Well known applications are, for example, the lane departure warning, the road sign detector or the high beam assistance. All these systems find tangible objects in the camera images like lane markings, road signs, light sources of the vehicle ahead or forthcoming vehicles. Detecting useful information describing the environment surrounding like fog, rain or snow, is still very challenging. The problem of fog detection is addressed in this research. Previous camera based fog detection systems always therefore distinct objects in the image or map regions like the road region or the horizon (i.e. the position where the sky touches the road).



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LIST OF PAPERS

S. No.	Paper Id	Title/Author Names	Page No
1	RTD_CSMAT - 001	A Review of Facial Recognition Systems Using Advanced Technologies <i>E. Ravi Prasad</i>	1
2	RTD_CSMAT - 002	A Review on Recommendation of Music Using Advanced Computer Vision Technologies <i>G. Rishal</i>	3
3	RTD_CSMAT - 003	A Review of Recommendation System for Products Using Artificial Intelligence <i>N. Aranya Raviola</i>	6
4	RTD_CSMAT - 004	Role of Cloud Computing in Education System <i>G. Anirudh and H. Lincy Jacqueline</i>	9
5	RTD_CSMAT - 005	Text Mining for Big Data Analysis in Financial Sector: A Literature Review <i>S. Saibha and Dr. P. Logeswaraj</i>	12
6	RTD_CSMAT - 006	Artificial Intelligence <i>D. Trisha and A. S.R. Sathish</i>	17
7	RTD_CSMAT - 007	Boosting the Quality of Service in Ad Hoc Networks through Weighted Cluster Based Hierarchical Routing <i>Dr. L. Kuthiravathimaran and Dr. K. Saravana Moorthy</i>	20
8	RTD_CSMAT - 008	Deep Learning Algorithms and its Applications - A Comprehensive Review <i>R. Senthilja</i>	29
9	RTD_CSMAT - 009	Crash Behavior Analysis for Abnormality in Video Surveillance by Using Gait Speed Monitoring <i>H. Aravindhan and Dr. N. Anandakrishnan</i>	30
10	RTD_CSMAT - 010	A Study on Blue Eye Technology <i>G. Sarita Siva, K. Sureshya and Dr. K. Kasthuri</i>	34
11	RTD_CSMAT - 011	A Study on Various Investigation Techniques used to Tackle Challenges in Cyber Space and Recent Security Advancements Adopted in IT Sector <i>P. Saritha, R. S. Shankar and Dr. B. P. Sreejit Vinodh</i>	38
12	RTD_CSMAT - 012	Cloud Computing Data Security in Cloud Computing for Banking <i>A.S.R Sathish and M. Rajarath Naha</i>	43
13	RTD_CSMAT - 013	A Survey on Low Code/No Code Development <i>M. Perumal and Dr. N. Jeyanthi</i>	49
14	RTD_CSMAT - 014	A Study on Natural Language Processing and its Applications in Interdisciplinary Area <i>R. V. Chandini, R. Arpita and Dr. B. P. Sreejit Vinodh</i>	53
15	RTD_CSMAT - 015	Text Visualisation by Data Analytics <i>M. Divyansu, R. Manoharan and Dr. T. Geetha</i>	59

Crowd Behavior Analysis for Abnormality in Video Surveillance in Using Gait Speed Monitoring

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Abstract—In recent times, crime detection has emerged as a powerful topic for identifying unusual or criminal actions. This work concentrated on suspicious behaviour analysis, which aids in the detection of crime events in terms of gait parameters. The tasks listed below are described in this work. First, the pedestrians are tracked from video footage using the MM (Motion Modelling) track technique, i.e. (calibration process). Second, based on the proposed modules, the gait parameters are extracted. 1) Module for spatial coordinates. 2) Module of local coordinates system. Third, evaluate suspicious behaviour in terms of walk ratio, AAC (Accelerative Anti-Correlation), and gravity, as well as dynamic, horizontal, and vertical components of pedestrian. This step 3 (third) value plays the validation role, which is based on the reference range to validate the Walk Ratio value. This paper compares efficiency in terms of true positive rate and pedestrian gait speed detection time parameters in other pedestrian detection techniques such as OFM (Definable Part Model) and Heatflow approach. The proposed work achieves the best results in both parameters.

I. INTRODUCTION

SURVEILLANCE cameras are increasingly being deployed in public venues such as streets, banks, and shopping malls to ensure public safety [1]. In today's world, video surveillance is critical for detecting anomalous human behaviour in order to preserve a peaceful environment. [2] and [3] investigated the effect of distraction states, distraction kinds, and pedestrian-vehicle interactions on pedestrian gait metrics at crosswalks. A new suspicious behaviour detection method that can be used for crime detection is presented in this paper. The main contributions of this work are:

- Using the MM track algorithm to track pedestrians.
- Using the spatial coordinate module and the fixed coordinate system module to extract the gait parameter.
- Finally, evaluated the suspicious behaviours utilizing speed profiles like the walk ratio and AAC.

The structure of this article is as follows. Related works are shown in Section 2. In section 3, proposed study identified the suspicious behaviours. Calculated results and discussion are found in section 4. Section 5 will then draw the conclusions. Figure 1 shows the proposed work flow.

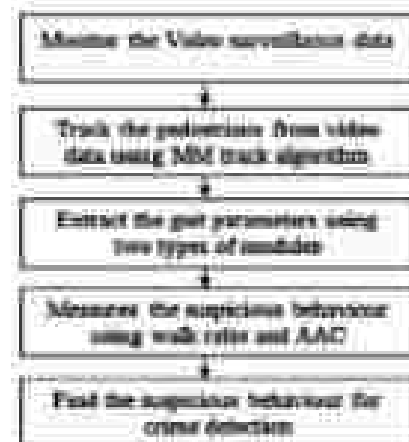


Figure 1. Work flow

II. RELATED WORKS

[4] discovered a crowd abnormality using an improved K-means algorithm. The secondary grouping on related groups and the category-specific grouping of the merged crowd were both carried out using the K-means algorithm. A new global factor was defined for the moving crowd in [5], according to the authors. [6] suggested a deep WCAE-LSTM network that uses three convolutional LSTM (ConvLSTM) units to record temporal and spatial variations. It was also suggested to use global-local analysis to identify anomalies and localise them. [7] created an automatic machine vision monitoring for locating pedestrians in small groups. A multi-view-based parameter-free framework (MPF) was suggested by [8]. They create two variations of the L1- and L2-based multi-view clustering approach. In [9], a framework for crowd anomaly detection is provided that fulfils the constant input of spatio-temporal data from five CCTV's. First, a spatial-temporal feature extraction algorithm is constructed by using Gabor-filtered features with the highest knowledge entropy values. [10] looked into the anomalies toward crowd interaction. Crowd representation is a new high-level crowd motion behaviour representation. In order to define the high-level semantic information concerning crowd behaviours, mood shifts diverse viewpoints. [11] created a technique for frame

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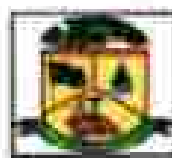
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	Genotypes under Eight Different Environments – Aditi, Smita Rani	
27	Protein-based metal bio-cleaver for detoxification of wastewater – Valappil Sathu, Nivikumar Ayyathara	45
28	Development and nutritional evaluation of value added biscuits supplemented with pomegranate seed powder – Neha, Veena Sarwan	46
29	In vitro biological activities of plant-associated <i>Sorotaria</i> fungal strains in Vietnam – Ho Ly Phuong, Hoang Kim Chi, Le Hau Quang, Nguyen Tien Quan, Tran Thi Hong Ha, Tran Thi Nhu Hong	47
30	Scum forming Cyanobacterial algae from Dori Dam, Jalgaon (M.S.) – Archana Chaudhari	48
31	Review for a SaaS based cloud attack – Manishi Srani, Upendra Nath Tripathi	49
32	Mobile Cloud Computing : Taxonomy and Challenges – Rajan Kumar Yadav, Upendra Nath Tripathi	50
33	Extraction and antihelminthic activity of <i>Arca catochu</i> leaves – Himant F. Suryawanshi, Rina H. Suryawanshi	51
34	Design and Development of Multilingualistic talking bot for learning & educating Children for Child Abuse – Siddhant Srivastava, Abhishek Verma, J. Ramkumar, Rohit Kumar	52
35	An Intervention Study to Analyze Influence of Genetic and Environment on Intelligence of Twins in Early Childhood – Arnu, Binla Dhanu, C. K. Singh	53
36	A Study on Nano Pre Generalized Pre Regular Continuous and Nano Pre Generalized Pre Regular Involutive Functions in Nano Topological Spaces – M. Manisha, Dr.M. Anitha	54
37	Resource allocation management and node-level fault tolerance using adaptive particle swarm optimization and first fit heuristic algorithm over grid computing – Dr.K.Santhosh Kumar, Ms. Keethana Sundar Raj	55
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20	SCRUTINIZE IN IMPROVING PERFORMANCE & INTENSIFY SECURITY IN IoT ONLINE SOCIAL NETWORKING Hemalatha R Devipriya K	111
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24	A REVIEW PAPER OF CLASSIFICATION IN DATA MINING S. D. Barkath Unisha	130
25	AN ENCHANCED SUPPORT VECTOR(SVM) CLASSIFIER WITH ARTIFICIAL BEE COLONY (ABC) ALGORITHM ON AGRICULTURE DATASET Anusuya. R, Dr. Krishnaveni Sakkarapani	134
26	TO DETECT - HOW THE USAGE OF MASK MODERATE THE SPREAD OF COVID - 19 USING SIMULATOR P. R. Pameela Rani	139
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ARTIFICIAL INTELLIGENCE AND ROBOTICS

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Abstract

Robotics and artificial intelligence share a common history of interaction and scientific debate. Robotics and artificial intelligence were both born at the same time, and at first there was no obvious difference between the two fields. The explanation is that the idea of a "intelligent machine" inevitably leads to robots and robotics. One could counter that not all machines are robots, and that artificial intelligence is equally concerned with virtual actors (i.e. agents that are not embodied in a physical machine). Yet, a lot of the technological issues and issues that need to be resolved in order to design robots are not addressed by artificial intelligence research. When robotics becomes more prevalent, there will be a distinct division between the fields.

1. INTRODUCTION

This situation altered in the 1990s when robots started to repopulate AI laboratories and robotics specifically addressed less controlled surroundings. Robotics competitions in particular were created, and they actually had a significant impact on re-establishing a strict relationship between AI and robotics, which is currently one of the most promising areas of research both nationally and internationally. In conclusion, it is undoubtedly challenging to draw a line between robotics research and artificial intelligence work, but the research community has identified the issues that must be solved in order to create intelligent robots, and the development of robots is once again seen as an example of an AI system.

2. RESEARCH ISSUES

In this section we analyse the recent work which can be characterized as AI Robotics, by arranging it into the two basic issues in robot design: Action and Perception.

2.1 Action

Although the fundamental design of the autonomous

agent or robot has recently come under universal agreement, the issue of how this design may be put into practice has long been controversial and is currently being researched. Several types of sensing and acting devices are typically found in agents, and particularly in robots. The description of how these modules interact with one another defines the agent's architecture. Several separate modules process the data flow from the sensors to the actuators.

The first, purely deliberative systems see the robot as an agent embodying a high-level representation of the environment and of the actions that it can perform. In order to create a model of the world, perceptual data are evaluated. A planner then creates the activities that will be taken.

Action Theories

To express the agent's knowledge, various theories of action have been created. They can depict complex situations and are distinguished by their expressive strength, their ability to use deductive reasoning, and their use of autonomic thinking processes.

Sensing, persistence, non-determinism, and concurrency are only a few of the characteristics of action representation that are addressed by the proposed formalisms. They have also been expanded with probabilistic representations, time representations, etc. With some significant exceptions, the majority of the research on action theories has not been tied to implementations on actual robots.

Using decision-making processes, a more widespread method of action representation on robots maximises the utility of the actions chosen by the robot, depending on the operational context.

Architectures

Each suggestion proposes a solution that addresses some of the several qualities that are thought to be crucial in the design of agents' architectures. Approaches to architectures that attempt to blend symbolic and reactive reasoning are offered as so-



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20	SCRUTINIZE IN IMPROVING PERFORMANCE & INTENSIFY SECURITY IN IoT ONLINE SOCIAL NETWORKING Hemalatha R Devipriya K	111
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27	EFFECTIVE FOG DETECTION AND REMOVAL IN IMAGE PROCESSING USING A PRIOR METHOD Dr. K. Santhosh Kumar	144
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A REVIEW PAPER OF CLASSIFICATION IN DATA MINING

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Abstract

Many business applications rely on their historical data to predict their business future. The marketing products process is one of the core processes for the business. Customer needs give a useful piece of information that helps to market the appropriate products at the appropriate time. Moreover, services are considered recently as products. The development of education and health services is depending on historical data. For the more, reducing online social media networks problems and crimes need a significant source of information. Data analysts need to use an efficient classification algorithm to predict the future of such businesses. However, dealing with a huge quantity of data requires great time to process. Data mining involves many useful techniques that are used to predict statistical data in a variety of business applications. The classification technique is one of the most widely used with a variety of algorithms. In this paper, various classification algorithms are revised in terms of accuracy in different areas of data mining applications.

1. INTRODUCTION

*Over the years, the use of technology has evolved from simple ideas to concrete realities. This has opened exciting vistas of opportunities for its application in varied fields of disciplines. The classification algorithm is being used today in important sectors, such as health and business. Aweid and Kharra (2015) outlined the extensive application of machine learning to include web searches, stock market predictions, gene sequence analysis, weather forecasting, and drug development. These broad uses of machine learning are indebted to new advances in classification algorithms. Data Mining is a process of searching for knowledge of data without prior assumptions about what this knowledge can be. Data mining is also defined as the process of analyzing a

quantity of data (usually a large amount) to find a logical relationship that summarizes the data in a new way that is understandable and useful to the owner of the data.

2. CLASSIFICATION

A technical process that uses algorithms to analyze data from multiple perspectives and extract meaningful patterns that can be used to predict users' future behavior. The market basket analysis system that Amazon.com uses recommends new products to its customers based on their past purchases and is a widely known example of how data mining can be used in marketing. Han et al. (2011) defined classification as a method of identifying a form or pattern that illustrates as well as differentiates data types or notices. Such a model, according to them, is developed from the scrutiny of a group of data items with recognized group descriptions. This model is then utilized to forecast the group of items whose group labels we do not know. Neelamegam and Ramaraj (2013) described classification as a machine learning method that is applied to forecast the clusters that data instances belong.

3. TYPES OF DATA MINING SYSTEM

Data mining systems can be categorized according to various criteria the classification is as follows [3]:

Classification of Data Mining Systems

According to the Type of Data Source Mined In an organization a huge amount of data's are available where we need to classify these data but these are available most of times in a similar fashion. We need to classify these data according to its type (Maybe audio/video, text format etc.)

Classification of Data Mining Systems

According to the Data Model, there are so many number of data mining models (Relational data model,

புறநானூறும் பொருளியல் வாழ்வும்

பி. மலர்ஷித்

நூலாசிரியைகள் பற்றி ...



இந்தரவின் ஆசிரியான திருமதி மலர்ஷித் ஐயரின் ரெஜி. சூனி மாவட்டம், வசந்தபுரம் என்னும் கிராமத்தைச் சார்ந்தவர். தமிழ்ப்பாது நவகிரி மாவட்டம் துள்ளூரில் வசித்து வருகிறார். தமிழில் எம்.ஏ. பி.ஐஸ்சிடி பட்டங்களைப் பெற்றவர். கோவை பாதியார் பலகலைக்கழகத்தில் இவர் மேற்கொண்ட முனைவர் பட்ட ஆய்வேடானது தமிழ்ப்பாது புறநானூறும் பொருளியல் வாழ்வும் என்ற தலைப்பில் இனது முதல் நூலாக வெளிவருகிறது. இவர் குன்னூர் பிராவிடென்ஸ் யுகளிர் துள்ளூர் கல்லூரியில் தமிழ்த்துறைத் துணைவர் மற்றும் இணைப்பாசிரியராக பணியாற்றி வருகிறார். மேலும் இவர் பாதியார் பலகலைக்கழக ஆட்சி மன்ற குழு உறுப்பினராக உள்ளார். இனது துணைவர் திரு. ஐயரின் ரெஜி நவகிரி மாவட்டம் உபதலை அரசு மேலின்கல்ப்பள்ளியில் துணைவர் ஆசிரியராக பணியாற்றி வருகிறார்.

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சுர்த்ரம் படைக்கும் தலைசிறந்த கவிதைகள்



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ප්‍රථම වරින් පිටුපස

පසුබිතු	:	අද්වයානි මහා විද්‍යාල ප්‍රකාශන මධ්‍යස්ථාන
වර්ග	:	පොත
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අනුරූප පිටුව	:	11
පිටුවක පිටුව	:	144
පිටුව	:	200
පිටුවක පිටුව	:	පිටුවක
පිටුව	:	200
පිටුවක පිටුව	:	ආ. පාලියානු, BA, B.Sc(II), D.Tel. (TM Course)
පිටුවක පිටුව	:	පාලියානු විශ්වවිද්‍යාලය (පිටුවක පිටුව) පිටුව - II. දුරකථන : 0424 2251545 / 04 62251540 ඊමේල් : langmadipublications@gmail.com වෙබ් : www.langmadipublications.com

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පිටුවක පිටුවක පිටුවක පිටුවක පිටුවක

56. தமிழீழ தலை தாழ்த்து வணங்குகிறேன்

எழுந்தொரு முப்பரமாய்
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எழுதிய சூழலாய்
செற்குள் தாக்காய்
அகம் புறம் பொருள் இரண்டாய்
தலை ஏழாய் அடி ஐந்தாய்
அஃ இரண்டாய் அயிர் சி முப்பதின்கூறாய்
அகம் கொட்டும் எட்டுத்தொகையாய்
இஃ கொட்டும் பத்துபாட்டாய்
திஃ ஈட்டும் அப்பியக்களாய்
வாக்குதல் திருக்களாய்
தொடத் தொடத் தலைதளும்
தாமயர் சிறுநிலக்கியல்களாய்
இன்னும் பாவாய்
தென்றோடு திரைத்
தெள்ளலெய்க் கங்குந்து
எகத்தின் சிவாநு
முத்தபிரமாய் மலைத்து
முலைத்தால் வளர்ந்து
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தாழ்த்தி அமிழ்த்தி உயிரித் உணவே
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 ಕರ್ನಾಟಕ ಸರ್ಕಾರದ ಸರ್ಕಾರಿ ಸಂಸ್ಥೆ, ಕರ್ನಾಟಕ - ೫೬೦೦೧
 ಕರ್ನಾಟಕ ಸರ್ಕಾರದ ಸರ್ಕಾರಿ ಸಂಸ್ಥೆ, ಕರ್ನಾಟಕ - ೫೬೦೦೧

ಕರ್ನಾಟಕ ಸರ್ಕಾರದ ಸರ್ಕಾರಿ ಸಂಸ್ಥೆ

೨೦೧೨-೨೦೧೩ - ೨೦೧೩

ಕರ್ನಾಟಕ

೨೦೧೨-೨೦೧೩ - ೨೦೧೩

ಕರ್ನಾಟಕ ಸರ್ಕಾರದ ಸರ್ಕಾರಿ ಸಂಸ್ಥೆ, ಕರ್ನಾಟಕ - ೫೬೦೦೧

ಕರ್ನಾಟಕ ಸರ್ಕಾರದ ಸರ್ಕಾರಿ ಸಂಸ್ಥೆ, ಕರ್ನಾಟಕ - ೫೬೦೦೧

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சுந்தரம் படைக்கும் கலைச் சிற்பத்

கவிதைகள்



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மதுரை மலர்ச்செயல்பாட்டுகூடம்

IV. 2007 General Assembly	iv	111. 2007 2007 General Assembly	111
V. 2008 General Assembly	xiii	112. 2008 2008 General Assembly	112
VI. 2009 General Assembly	xv	113. 2009 2009 General Assembly	113
VII. 2010 General Assembly	xvii	114. 2010 2010 General Assembly	114
VIII. 2011 General Assembly	xix	115. 2011 2011 General Assembly	115
IX. 2012 General Assembly	xxi	116. 2012 2012 General Assembly	116
X. 2013 General Assembly	xxiii	117. 2013 2013 General Assembly	117
XI. 2014 General Assembly	xxv	118. 2014 2014 General Assembly	118
XII. 2015 General Assembly	xxvii	119. 2015 2015 General Assembly	119
XIII. 2016 General Assembly	xxix	120. 2016 2016 General Assembly	120
XIV. 2017 General Assembly	xxxi	121. 2017 2017 General Assembly	121
XV. 2018 General Assembly	xxxiii	122. 2018 2018 General Assembly	122
XVI. 2019 General Assembly	xxxv	123. 2019 2019 General Assembly	123
XVII. 2020 General Assembly	xxxvii	124. 2020 2020 General Assembly	124
XVIII. 2021 General Assembly	xxxix	125. 2021 2021 General Assembly	125
XIX. 2022 General Assembly	xli	126. 2022 2022 General Assembly	126
XX. 2023 General Assembly	xliii	127. 2023 2023 General Assembly	127
XXI. 2024 General Assembly	xlv	128. 2024 2024 General Assembly	128
XXII. 2025 General Assembly	xlvii	129. 2025 2025 General Assembly	129
XXIII. 2026 General Assembly	xlvix	130. 2026 2026 General Assembly	130
XXIV. 2027 General Assembly	lvi	131. 2027 2027 General Assembly	131
XXV. 2028 General Assembly	lviii	132. 2028 2028 General Assembly	132
XXVI. 2029 General Assembly	lvi	133. 2029 2029 General Assembly	133
XXVII. 2030 General Assembly	lviii	134. 2030 2030 General Assembly	134
XXVIII. 2031 General Assembly	lvi	135. 2031 2031 General Assembly	135
XXIX. 2032 General Assembly	lviii	136. 2032 2032 General Assembly	136
XXX. 2033 General Assembly	lvi	137. 2033 2033 General Assembly	137
XXXI. 2034 General Assembly	lviii	138. 2034 2034 General Assembly	138
XXXII. 2035 General Assembly	lvi	139. 2035 2035 General Assembly	139
XXXIII. 2036 General Assembly	lviii	140. 2036 2036 General Assembly	140
XXXIV. 2037 General Assembly	lvi	141. 2037 2037 General Assembly	141
XXXV. 2038 General Assembly	lviii	142. 2038 2038 General Assembly	142
XXXVI. 2039 General Assembly	lvi	143. 2039 2039 General Assembly	143
XXXVII. 2040 General Assembly	lviii	144. 2040 2040 General Assembly	144
XXXVIII. 2041 General Assembly	lvi	145. 2041 2041 General Assembly	145
XXXIX. 2042 General Assembly	lviii	146. 2042 2042 General Assembly	146
XL. 2043 General Assembly	lvi	147. 2043 2043 General Assembly	147
XLI. 2044 General Assembly	lviii	148. 2044 2044 General Assembly	148
XLII. 2045 General Assembly	lvi	149. 2045 2045 General Assembly	149
XLIII. 2046 General Assembly	lviii	150. 2046 2046 General Assembly	150
XLIV. 2047 General Assembly	lvi	151. 2047 2047 General Assembly	151
XLV. 2048 General Assembly	lviii	152. 2048 2048 General Assembly	152
XLVI. 2049 General Assembly	lvi	153. 2049 2049 General Assembly	153
XLVII. 2050 General Assembly	lviii	154. 2050 2050 General Assembly	154

108: திருநெல்வேலி

முன்னம், பின்னம்,
 உருவம்
 உருவமுள்ள உருவம்
 நெல், செறுந்
 உடல் திரிவோர்
 உருவமுள்ள உருவம்
 உடல்

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முன்னம், பின்னம்
 உருவமுள்ள உருவமுள்ள

1971-ம் ஆண்டு அக்டோபர் 25-ம் நாள், திருநெல்வேலி



കേരള പാഠശാലാ പരിഷ്കരണ ബോർഡ്, വയലക്കടവ - മലപ്പുറം
 ഉദ്യോഗസ്ഥന്മാരുടെയും അദ്ധ്യാപകന്മാരുടെയും ഭവനങ്ങൾക്ക്
അനുവദിക്കുന്ന പദ്ധതിയിടവുമാറ്റം

പാർലമെന്ററിയ മന്ദിരം

നം. കെ.പി.എം. 3022

പദ്ധതിയിടവുമാറ്റം

കെ.പി.എം. 3022

പദ്ധതിയിടവുമാറ്റം നടപ്പാക്കാൻ അനുമതി നൽകുന്നതിനായി തയ്യാറാക്കിയ പദ്ധതിയിടവുമാറ്റം റിപ്പോർട്ട്. പദ്ധതിയിടവുമാറ്റം നടപ്പാക്കാൻ അനുമതി നൽകുന്നതിനായി തയ്യാറാക്കിയ പദ്ധതിയിടവുമാറ്റം റിപ്പോർട്ട്. പദ്ധതിയിടവുമാറ്റം നടപ്പാക്കാൻ അനുമതി നൽകുന്നതിനായി തയ്യാറാക്കിയ പദ്ധതിയിടവുമാറ്റം റിപ്പോർട്ട്.

ക.പി.എം. 3022
 മലപ്പുറം
 2022

(Handwritten Signature)
 മലപ്പുറം
 2022

ക.പി.എം. 3022
 മലപ്പുറം
 2022

சர்தாரம் படைக்கும் கலைசிறந்த

கவிதைகள்



மலர்ச்சி

சென்னை

க. உமாசேகர்

62. ജനാധിപത്യം, ദേശീയത, ഭരണസമ്പ്രദായം?

ജനാധിപത്യം എന്ന പദം അർത്ഥം എന്ത്?
ഭരണത്തിൽ ജനങ്ങളുടെ പങ്കെടുപ്പ് എന്നാണ്.
ജനാധിപത്യം എന്നാൽ ജനങ്ങളുടെ പങ്കെടുപ്പ്.
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ജനാധിപത്യം എന്നാൽ ജനങ്ങളുടെ പങ്കെടുപ്പ്.

ജനാധിപത്യം എന്ന പദം അർത്ഥം എന്ത്?
ഭരണത്തിൽ ജനങ്ങളുടെ പങ്കെടുപ്പ് എന്നാണ്.
ജനാധിപത്യം എന്നാൽ ജനങ്ങളുടെ പങ്കെടുപ്പ്.



தமிழக அரசின் தலைநகரில் உள்ள புவனேஸ்வரம், வீரபுத்தூர், 605 001.

மீனாட்சி-வேள்-பாசணி-கல்யாள்-குன்றாடு, திசூர் - 643 104.

புது தில்லி-விடுதலை-பாதை - 600 014.

திகதி: 27.03.2023

மாண்புமிகு கருத்துரைக்காய்
சாய்விதழ்

கி.மீ - புதுச்சேரி

கருத்துரைக்காய்-சாய்விதழ் _____ (பி. பையாச்சேரி) _____ கி.மீ-புதுச்சேரி

சாய்விதழ், கருத்துரைக்காய்-சாய்விதழ் எனும் இரு துருவங்களில் (ISSN - 2345 - 1174) கருத்துரைக்காய்-சாய்விதழின்

மேல்-கருத்துரைக்காய்-சாய்விதழைச் சேர்ந்த கருத்துரைக்காய்-சாய்விதழின் கருத்துரைக்காய்-சாய்விதழின்

மேல்-கருத்துரைக்காய்-சாய்விதழ் _____ திரு.சுப்பிரமணியன் சாமிநாதன் _____ கருத்துரைக்காய்-சாய்விதழின்

மேல்-கருத்துரைக்காய்-சாய்விதழின் கருத்துரைக்காய்-சாய்விதழின் கருத்துரைக்காய்-சாய்விதழின்

சு. சீனிவாசன்
மாண்புமிகு கருத்துரைக்காய்-சாய்விதழ்

பி. சீனிவாசன்
மாண்புமிகு கருத்துரைக்காய்-சாய்விதழ்

சி. சீனிவாசன்
மாண்புமிகு கருத்துரைக்காய்-சாய்விதழ்

டி. சீனிவாசன்
மாண்புமிகு கருத்துரைக்காய்-சாய்விதழ்

பி. சீனிவாசன்
மாண்புமிகு கருத்துரைக்காய்-சாய்விதழ்



மதுரை மாநகராட்சி கல்வி (ப) அறங்காவலாகிய கலாநாயகி
MADONNA ARTS & SCIENCE COLLEGE FOR WOMEN
 Viraganur, Madurai - 625 009.

திருச்சூர் திருச்சி மகளிர் கல்விக்கழகம் (அதனாங்கீகரிக்கப்பட்டது)
PROVIDENCE COLLEGE FOR WOMEN (AUTONOMOUS)
 Coonoor, Nilgiris - 643 104

&

திரு. திருவார்த்தினம்
TODAY GRAPHICS
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தலைவர்கள், அறிஞர்கள், கவிஞர்கள், எழுத்தாளர்கள்
**PERSONALITIES WHO PROMOTED
 TAMIL AND HISTORY**

Date : 27.02.2023

Venue : Auditorium, Madonna Arts & Science College for Women
 Viraganur, Madurai - 625 009.

35. கவித்துவர்களின் தமிழ்த்தொண்டி
முனைவர் எ. மய்யாமிழி 288
36. தமிழ் வளரித்த கவித்துவ ஆளுமைகள்
சே. சமோமி இராஜரீகம் 294
37. தமிழில் வளரித்தவை அளப்பரிய புகழ்கள்
அதட்சகோதரி ஏஞ்சல் 301
38. தமிழ் வளரிக்கையில் மண்ணை அடிக்கின் புகழ்
சுந்திரை 309
39. சங்க கால ஒளியடிகளும், ஒளிபதிர்வு
வளக்களும் மற்றுப் ஒளிபதிர்வு
பயன்படுத்திய பொருட்களும்
சிந்தாமணி சே 313
40. தமிழ் வளரித்த ஆர்ஞ்சி - பதினாறு கையெழு
முனைவர் எ. தனசென்சுமி 322
41. கவித்துவம் மிக்க கையெழுத்து திரைத் தமிழ்
முனைவர் மு. தேவேந்திரன் 336
42. தமிழ் இளகிய வளமுக்கியம் முயர்நாசகம்
ம. முத்துசென்சுமி 345
43. உலகத் தமிழ்த்தொண்டி கவிநாசக அடிகள்
முனைவர் இரா. உயர்வா கிரிசெடி 350
44. கவிதை இயக்கம் இயக்கிய பணி
365
45. இருயதாம் நூர்நாண்டில் தமிழ்
வளரித்த பெரியோர்கள்
முனைவர் பொ. அழகா 373
46. தமிழக வளமாற்று ஆய்வாளர்கள்
முனைவர் மு. கவிதா 382
47. முதல் கவித்திரை பெரிய புகழ்த்தேவனின் புகழ்
முனைவர் ஜெ. மேகலா தேவி 391
48. கம்பராமாயணத்தில் காகேயனின் ஆளுமை
க. முனியதேவி 398

25. SOZIOLOGISCHE ANTIKONFORMITÄT

„Wenn ich nicht
 antwortete, nicht gegen die
 Regeln
 „Antik“ der Konformität
 war“

„Während der Jahre, in denen
 Antikontormität nicht bestrafen wurde,
 schenkte man Antikontormität nicht die
 Aufmerksamkeit, die sie verdient hat.“
 „Während der Jahre, in denen Antikontormität
 nicht bestrafen wurde, schenkte man Antikontormität
 nicht die Aufmerksamkeit, die sie verdient hat.“

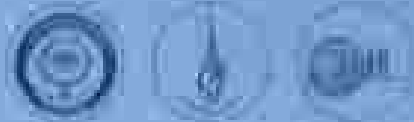
„In der Antikontormität, die nicht bestrafen
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Antikontormität

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Antikontormität

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 nicht bestrafen worden.“ „Während der Jahre,
 in denen Antikontormität nicht bestrafen wurde,
 ist die Antikontormität nicht bestrafen worden.“



விடுதலைச் சிறப்புப் படைப்புகள் - ஆசிரியர் கல்வி, கிராமப்புறப் பள்ளி - 605 019

கிளாஸ்க்கை மாண்பு மகிழ்ச்சி, தஞ்சை, திசை - 643 014

மாநில கல்வித் துறை, பாளையங்கோட்டை - 605 016

செய்த நாள்: 2022

தா. எண்: 27/02/2022

புள்ளிகளின் கருத்துக்களையும் சான்றிதழ்

உள்ள பக்கம்

இது ஒரு மலர் ஆகும். புள்ளிகளின் கருத்துக்களையும் சான்றிதழ் ஆகும்.

புள்ளிகளின் கருத்துக்களையும் சான்றிதழ் (ISSN - 2349-1914) ஆகும். இதன் மூலம்

புள்ளிகளின் கருத்துக்களையும் சான்றிதழ் ஆகும். இதன் மூலம் புள்ளிகளின் கருத்துக்களையும்

சான்றிதழ் ஆகும். இதன் மூலம் புள்ளிகளின் கருத்துக்களையும் சான்றிதழ் ஆகும்.

புள்ளிகளின் கருத்துக்களையும் சான்றிதழ் ஆகும். இதன் மூலம் புள்ளிகளின் கருத்துக்களையும்

சுந்தரமணி
புள்ளிகளின் கருத்துக்களையும்
சான்றிதழ் ஆகும்.

P. Sathya
புள்ளிகளின் கருத்துக்களையும்
சான்றிதழ் ஆகும்.

S. Sathya
புள்ளிகளின் கருத்துக்களையும்
சான்றிதழ் ஆகும்.

S. Sathya
புள்ளிகளின் கருத்துக்களையும்
சான்றிதழ் ஆகும்.

S. Sathya
புள்ளிகளின் கருத்துக்களையும்
சான்றிதழ் ஆகும்.



மதுரை, மதுரைக் கல்லூரி (பு) கல்வியியல் துறை
MADONNA ARTS & SCIENCE COLLEGE FOR WOMEN
 Viraganur, Madurai - 625 009.

கொடைக்காங்குளி மகளிர் கல்வியியல் (தனியாக)
PROVIDENCE COLLEGE FOR WOMEN (AUTONOMOUS)
 Coonoor, Nilgiris - 643 104

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தமிழ் கல்வியியல்
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**PERSONALITIES WHO PROMOTED
 TAMIL AND HISTORY**

Date : 27.02.2023

Venue : Auditorium, Madonna Arts & Science College for Women
 Viraganur, Madurai - 625 009.

6. கிரீத்தலார்களில் தமிழ்ச்சொல்லு
 முனைவர் டி. மணிமொழி 288
7. தமிழ் வளர்த்த கிரீக்கவர் ஆளுநர்கள்
 செ. சமோமி இராஜவேலு 293
8. தமிழில் வளர்த்ததில் அரப்பாளிய பரிசுதவர்
 அருட் சமோமி அஞ்சல் 301
9. தமிழ் வளர்த்ததில் பண்டமலை அரப்பாளிய பரிசு
 சந்திரமணி 309
10. சங்க கால குவிராங்கலும், குவிராத்தில
 னங்களும் மற்றும் குவிராத்திலு
 வாய்ப்படுகதவிய பொருட் கலும்
 விருபாத்தி செ 311
11. தமிழ் வளர்த்த அறிஞர் - பரிசுமொற் கலைஞர்
 முனைவர் ச. தனமொட் கமி 322
12. தமிழ் வளர்த்த சங்க கலைஞரின் திரைத் தமிழ்
 முனைவர் மு. தேவமொற்றிசுவல் 336
13. தமிழ் இயக்கவிய வயமுச்சுவல் முனைதராகக்
 ம. முத்தமொட் கமி 345
14. கலகத் தமிழ்த்துதுவர் துயிராயக அருகவர்
 முனைவர் இரா. ச. வானா கிரிசீவடி 350
15. கலகத் துயிரில் இயக்கவிய பணி
 365
16. இரூபதமம் துயிராயகக் தமிழ்
 வளர்த்த பொரிசொர்கவர்
 முனைவர் பொ. அமுதா 373
17. தமிழ் வளர்த்து அறிஞர்களின்
 முனைவர் மு. கவிதா 382
18. குவிராத்திலு பொரிசு துயிர்த்தவையிலு பரிசு
 முனைவர் செ. மொகலா தேயி 391
19. கலகத்தவியவளத்திலு கலகமொரிசிலு ஆளுநர்
 ச. முனைதேயி 398

45. இராமதாமி நூற்றாண்டில் தமிழ் வளர்த்த வாரியோர்கள்

முனைவர் இரா அமுதா
உதயபிழைப்பாளியர்,
தொழில்நுட்பவியல் மருமலர் கல்விநூலர்,
குண்டூர்.

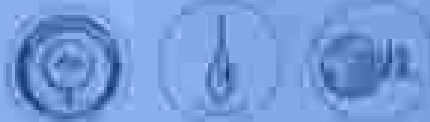
முன்னுரை

இராமதாமி நூற்றாண்டில் தமிழகத் தமிழியல்/விஞானம் அளப்பிர்ப்பு பிழைப்பாளிகளின் ஆதிக்கத்தின் தொடர்ச்சியாகத் தமிழ்விஞானம் மீட்டி, இந்த தமிழ்விஞானம் பெருமையாகச் செங்கல் நம்பிழைப்பாளிகள் மூலம் ஆரம்பம் கொடுப்பதே இயலாது என்ற இக்கத் தமிழ் வளர்த்த வாரியோர்களின் சிவமாய் பற்றிக் கண்டியேயும்.

காரணத்தையும்

இவர் காற்றிப்பாண்டத்து நய்தார் ஆரம்பம் நான்காம் கால அளவுக்கடியாயினார். தமிழர் பெரும் பழையதாவது இவர் ஆக்கியத்திலும் சிறந்து விளங்கினார் சிவமாய் பெல்வாசியை இவர் சிறித்தும் சிலத் துறாவிய விவிலித்தகத்தி சிறித்தும் விளக்கிய வேண்டுகோளுக்கு இணங்கித் தமிழின் பெரிய பெயர்க்குத் தக்கார். சிறித்தும் மரபு பிழைத்து சிறப்பான தமிழ் நடை சில அம்மொழிப்பெயர்ச்சு நடை.

இவர்க்குப் பன்னிவியல் படித்தும் தமிழ்விஞானம் பெரும்பாலும் பாடும் என்னும் துறாவை வெளிப்பட்டார். இது கருக்கலாய்க்கவும் மிகச் செறிவோடும் எழுதப்பட்டது. அதிலிருந்து அக்காலத்து தமிழின் காத்தலத் தாரிப்பாய் கண்ணாறுக்குப் பின் துறாவின் இரம்பினும் இவர் கத்திவெள்ள



ശ്രീ. ശ്രീ. ശ്രീ. മഹാശാസ്ത്ര കോളേജ്, കോളേജ് പാതയിൽ, കോട്ടയം - 686 007.
സ്റ്റാൽ, മിൻ. പാതി കെട്ടി, കോട്ടയം, ട്രാക്ക് - 043 104.
മി. മിനിമം, മിനിമം - 000 018.

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മുദ്ര. 2023, മുദ്ര. 2023, മുദ്ര. 2023, മുദ്ര. 2023, മുദ്ര. 2023, മുദ്ര. 2023, മുദ്ര. 2023, മുദ്ര. 2023

മുദ്ര. 2023, മുദ്ര. 2023, മുദ്ര. 2023, മുദ്ര. 2023, മുദ്ര. 2023, മുദ്ര. 2023, മുദ്ര. 2023, മുദ്ര. 2023


P. Jayaram
മുദ്ര. 2023, മുദ്ര. 2023


S. Sankar
മുദ്ര. 2023, മുദ്ര. 2023


K. Sankar
മുദ്ര. 2023, മുദ്ര. 2023


M. Sankar
മുദ്ര. 2023, മുദ്ര. 2023


N. Sankar
മുദ്ര. 2023, മുദ്ര. 2023

22. தமிழ் இலக்கியங்களில் காலந்தோறும் மெய்யிய ஆளுமை சிந்தனைகளும் மெய்யியார் மார்பையும்

முனைவர் ஜெ. குமரவேலு
உதவிப்பேராசிரியர், தமிழ்த்தொண்ட
பிராமிடவம் மணலிர் கல்லூரி, உதகை

முன்னுரை

உலகத்தில் தோன்றிய சிந்தனையாளர்களும் சிற்பிருத்தவாதிகளும் சமயத்தனையாளர்களும் செவ்வாத மரபெனும் புராணினாத செய்தான தந்தை மெய்யியார் இள உணர்வு, மொழி உணர்வு, பெண்ணடிவயத்தனம் ஆய்வாற்றிற்சாகப் போராடியவர். பெண்கள் கல்வி கற்க வேண்டும் அனைத்துத் துறைகளிலும் ஆண்களுக்கும் சமமாகப் பங்கேற்க வேண்டும் எனக் கருதினார். பெண்கள் முன்பேற்றத்திற்காகப் பல தளையர்கள் போராடியானால் முடிவில் பெண்ணடிவயத்தனம் மீள்வேகல் இருந்தது மெய்யியார் கவிஞராய் இயல்பாய் மெய்யியல் சிந்தனையாளரும் பெண்கள் முன்பேற்றமடைய வழி செய்தார். பெண்ணடிவயத்தனம் என்கு இருந்தாலும் அதை வெளிப்படையாகச் சாடியவர் மெய்யியார்

பெண்கள்

பெண்கள் முன்பேற்றத்திற்குப் பெருத்தடை விட்டவர் அவர்களை முடக்கி வைத்ததாலும் பெண்கள் மனிதப் பிறல்களாக நட மாட வேண்டுமானால், முதலில் அடுப்பங்கரைவை விட்டு அவர்களை வெளியேற்ற வேண்டும் பெண்கள் கல்வி பெறுவது அவர்கள் உரிமை



International Conference on VLSI (ICCV)



சிஆர்சி வளர்சிழா

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வழிநடற் பள்ளாய: இக் தயிற் கூய்க்குநர்

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வினாக்கள் - பதில்கள்

புறநாடுகள் சான்றுகளுடன் பள்ளாய: வழிநடற் பள்ளாய: இக் தயிற் கூய்க்குநர் "பழங்குடி சான்றுகளுடன்... மூலகோளக் கருவணம்பாற் றகளர் கூர்நாசி, யொயம்புத்நூர்... தமிழ்த்தொடர் தொல்நாட்டிற் குறிஞ்சிய் அங்கம் 2022 - 23... வழிநடற் பள்ளாய: இக் தயிற் கூய்க்குநர்... International Journal of Tamil Research is a Peer-reviewed Printed Journal ISSN 2550-9877...

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12. Die Bedeutung der Kunst

12.1 Die Kunst als Spiegelbild

12.1.1 Die Kunst als Spiegelbild der Gesellschaft

12.1.1.1

Die Kunst ist ein Spiegelbild der Gesellschaft. Sie zeigt die Werte, Normen und Ideale einer Kultur. Durch die Kunst können wir die Vergangenheit verstehen und die Zukunft gestalten. Die Kunst ist ein Mittel zur Selbsterkenntnis und zur Verständigung zwischen den Völkern. Sie ist ein Ausdruck der menschlichen Seele und ein Zeugnis der menschlichen Freiheit. Die Kunst ist ein Spiegelbild der menschlichen Existenz und ein Ausdruck der menschlichen Würde. Sie ist ein Mittel zur Selbsterkenntnis und zur Verständigung zwischen den Völkern. Sie ist ein Ausdruck der menschlichen Seele und ein Zeugnis der menschlichen Freiheit. Die Kunst ist ein Spiegelbild der menschlichen Existenz und ein Ausdruck der menschlichen Würde.

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12.2 Die Kunst als Ausdruck

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12.2.1.2 Die Kunst als Ausdruck der menschlichen Seele

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12.2.1.2.2 Die Kunst als Ausdruck der menschlichen Seele

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12.2.1.2.3 Die Kunst als Ausdruck der menschlichen Seele

12.2.1.2.3.1 Die Kunst als Ausdruck der menschlichen Seele

12.2.1.2.3.2 Die Kunst als Ausdruck der menschlichen Seele

Die Kunst ist ein Ausdruck der menschlichen Seele. Sie ist ein Mittel zur Selbsterkenntnis und zur Verständigung zwischen den Völkern. Sie ist ein Ausdruck der menschlichen Seele und ein Zeugnis der menschlichen Freiheit. Die Kunst ist ein Spiegelbild der menschlichen Existenz und ein Ausdruck der menschlichen Würde.