

**SREE ABIRAAMI ARTS AND SCIENCE COLLEGE FOR WOMEN**

Approved by Govt. of Tamil Nadu | Affiliated to Thiruvalluvar University, Vellore  
Recognized under section 2(f) of the UGC Act, 1956 | An ISO 9001: 2015 Certified Institution  
Keelalathur, Gudiyattam - 635803.

**3.3.2 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five year**

Sl. No.	Academic Year	Name of the teacher	Title of the book /chapters published	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
1	2021-2022	Dr.Alok Chandra	Reflections with Emotions : An Anthology of Short Stories and Poems	Nil	Nil	Nil	Nil	2022	ISBN: 979-88868-4726-0	Sree Abiraami Arts and Science College for Women	Notion Press
2	2021-2022	Dr.Alok Chandra	Perennial Wisdom : A Treasure Trove of Short Stories and Poems	Nil	Nil	Nil	Nil	2022	ISBN: 979-88870-4134-6	Sree Abiraami Arts and Science College for Women	Notion Press
3	2021-2022	Dr.Alok Chandra	Revisiting Post-Colonial Literature : Thematic and Contextual Concerns	Nil	Nil	Nil	Nil	2022	ISBN: 978-93-92189-074	Sree Abiraami Arts and Science College for Women	Perception Publishing House
4	2021-2022	Dr.R.S.Vetrivel & Mrs.L.Suganthi	An Overview of Operating System	-	-	-	-	APRIL,2022	ISBN: 978-81-954783-23	Sree Abiraami Arts And Science College For Women.	KMJ - Publications
5	2021-2022	Dr.R.S.Vetrivel & Mrs.L.Suganthi	Programming with ASP.NET	-	-	-	-	2022	ISBN: 978-81-954783-30	Sree Abiraami Arts And Science College for Women.	KMJ - Publications

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6	2021-2022	Mrs.D.Narayani	Java and Data Structure	-	-	-	-	2021	ISBN: 978-93-91871-123	Sree Abiraami Arts and Science College for Women.	UDHAYAS SPNC Publication
7	2020-2021	Dr.V.Sivakumar, Mrs.R.Swathi	An IoT-Based Energy Meter for Energy Level Monitoring, Predicting, and Optimization"	Challenges and Opportunities for the Convergence of IoT, Big Data, and Cloud Computin	-	-	-	2021	ISBN: 9781799831112, eISBN: 9781799831136	Sree Abiraami Arts and Science College for Women.	IGI GlobL Publishers of Timely Knowledge
8	2019-2020	-	-	-	-	-	-	-	-	-	-
9	2018-2019	-	-	-	-	-	-	-	-	-	-
10	2017-2018	R.Vidhya	Epistemic Boundaries of Subalternity : An Appraisal	Taciturnity; A Critical Analysis of Imayam's Arumugam	Nil	Relocating Subalternity : Changing Configurations	International	2018	ISBN: 978-81-7966-4698	Sree Abiraami Arts and Science College for Women	Emerald
11	2017-2018	R.Vidhya	Dalit Aesthetics : Theorizing the Subaltern Consciousness	Depiction of Dalit Women in the novels of Imayam	Nil	Nil	National	2018	ISBN: 978-81-7966-4742	Sree Abiraami Arts and Science College for Women	Emerald
12	2106-2017	-	-	-	-	-	-	-	-	-	-

  
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3.3.2 NUMBER OF BOOKS AND CHAPTERS IN EDITED VOLUMES/BOOKS PUBLISHED AND PAPERS PUBLISHED IN NATIONAL/ INTERNATIONAL CONFERENCE PROCEEDINGS PER TEACHER DURING LAST FIVE YEAR

*2021-2022*

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FACULTY NAME: DR.ALOK CHANDRA

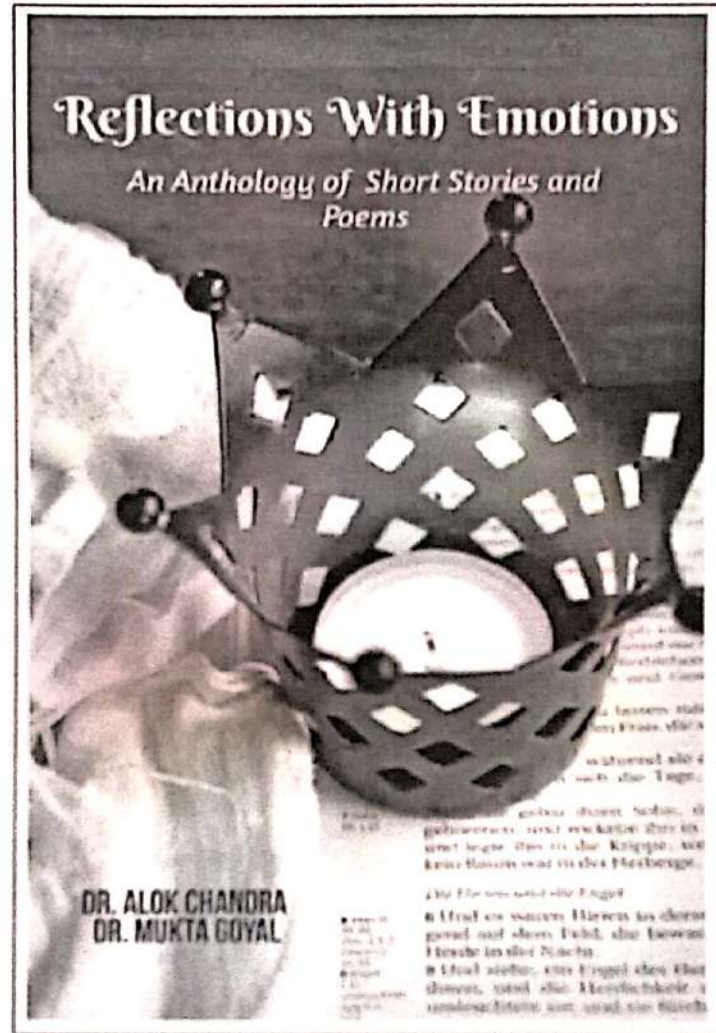
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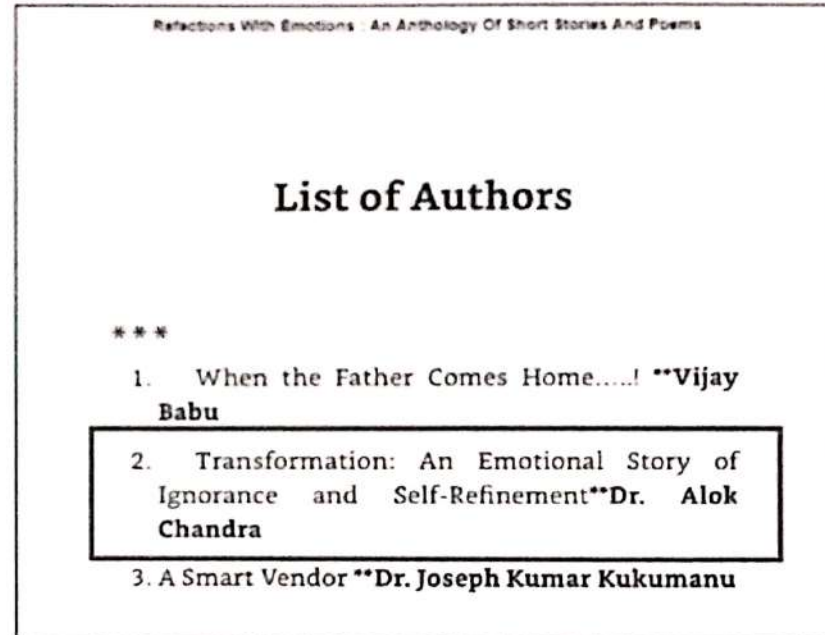
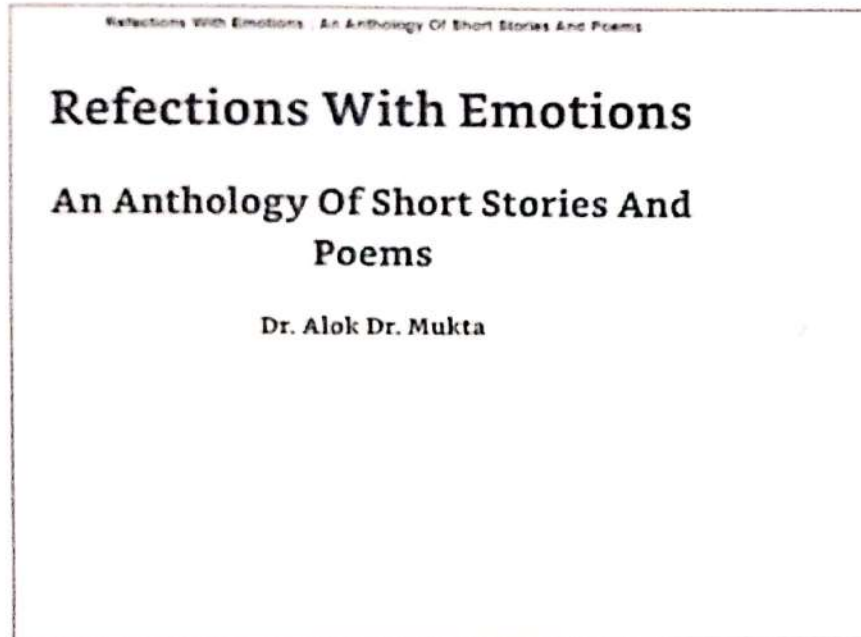
BOOK TITLE: REFLECTIONS WITH EMOTIONS



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Reflections With Emotions : An Anthology Of Short Stories And Poems	Reflections With Emotions : An Anthology Of Short Stories And Poems
5. "Daddy's little girl"	19. Rocks
6. Checkmate	20. Ignite Oneself
7. Rumman	21. In The Journey Of Life Being A Tractor
8. Munuswamy	22. As Long as a Lake
9. Children Of India's Defence	23. January January...
10. "The Golden Feast "	24. Everywhere Everywhere...
11. "Surpassing Horizons: Salute to Bhawana Kanth"	25. It Is An Ancient Place...
12. La...La...La...Laa...	26. It Is The Time...
13. The Epitome Of Rain	27. Just Like The Waters...
14. The Insatiable Curiosity	28. To be a Buddha
15. COVID'19	29. Reborn out of Fire
16. The Lord	30. The Prince of a mother's tale
17. Thanksgiving	31. Ashes
18. Soul's cry	32. A Signature of Life

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Reflections With Emotions : An Anthology Of Short Stories And Poems

33. Aromatic Fragrance  
34. Rock n Roll  
35. Subtle World  
36. I  
37. Soul Shines  
*Author's Bio*

Reflections With Emotions : An Anthology Of Short Stories And Poems

**List of Authors**

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1. When the Father Comes Home.....! **\*\*Vijay Babu**

2. Transformation: An Emotional Story of Ignorance and Self-Refinement**\*\*Dr. Alok Chandra**

3. A Smart Vendor **\*\*Dr. Joseph Kumar Kukumanu**

**Product details**

ASIN : B09ZPPZH6

Publisher : Notion Press; 1st edition (6 May 2022); Notion Press Media Pvt Ltd No,50 ,Chettiyar Agaram Main Road , Vanagaram , Chennai - 600095

Language : English

Paperback : 114 pages

ISBN-13 : 979-8886847260

Item Weight : 132 g

Dimensions : 12.7 x 0.69 x 20.32 cm

Country of Origin : India

Importer : Notion Press Media Pvt Ltd No,50 ,Chettiyar Agaram Main Road , Vanagaram , Chennai - 600095

Packer : Notion Press Media Pvt Ltd No,50 ,Chettiyar Agaram Main Road , Vanagaram , Chennai - 600095

Generic Name : Books

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The present anthology entitled Reflections with Emotions : An Anthology of Short Stories and Poems is a garland of meaningful and path-finder collection of short stories and poems. It is infact the byproduct of the contributors' innermost emotional intelligence which finds its emphatic as well as real manifestations in the themes of nature, religion, war, women empowerment, self-identity, kinship/coexistence, sympathy, love, peace, etc. All the creative works of this enchanting anthology are very informative and constructive in terms of knowing the real purpose or goal of humanly lives. Each story and poem is drenched in the humanly emotions which make reading public extend their hearty respect and sympathy towards both animate and inanimate objects of nature.

Dr. Alok Chandra is currently working as an Assistant Professor in the Department of English at Sri Abiraami Arts and Science College for Women, Gudiyattam, Vellore, Tamilnadu. He is a poet, critic, reviewer, and editor who hails from Barqaon, Nalanda, Bihar. He has been rendering his active editorial services as the co-editor of The Creative Lancer: An International Journal of English. He is the former research scholar of Nava Nalanda Mahavihara Nalanda, Bihar. He has participated and presented his research papers in National and International conferences/ seminars and also attended relevant workshops on ELT. He has got his well researched papers in published in international journals and edited books. He always displays his hearty passion for composing his poems concerning the global ecology; his poems have been published in both journals and anthologies. He is the recipient of best research paper award in a national conference for his paper

Dr Mukta Goyal is a dedicated professional having an experience of almost a decade in academia. Presently she is working as a Principal in Manvi Institute of Edu. & Tech, Delhi, SCERT. She has completed her Ph. D. in Management from Mewar University, Chittorgarh. She has been conferred with the "Best Principal" Award in the year 2022 along with "The Real Super Woman" Award in the year 2020. She holds her credit to author four books and also edited around nineteen books with different titles. She is also a regular columnist in newspapers and very much acclaimed for her poetries. Many of her research papers have been acknowledged and published in the Journal of National and International repute as well as conference proceedings too..

ISBN 979-888684726-0



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*Dr. Alok Chandra*  
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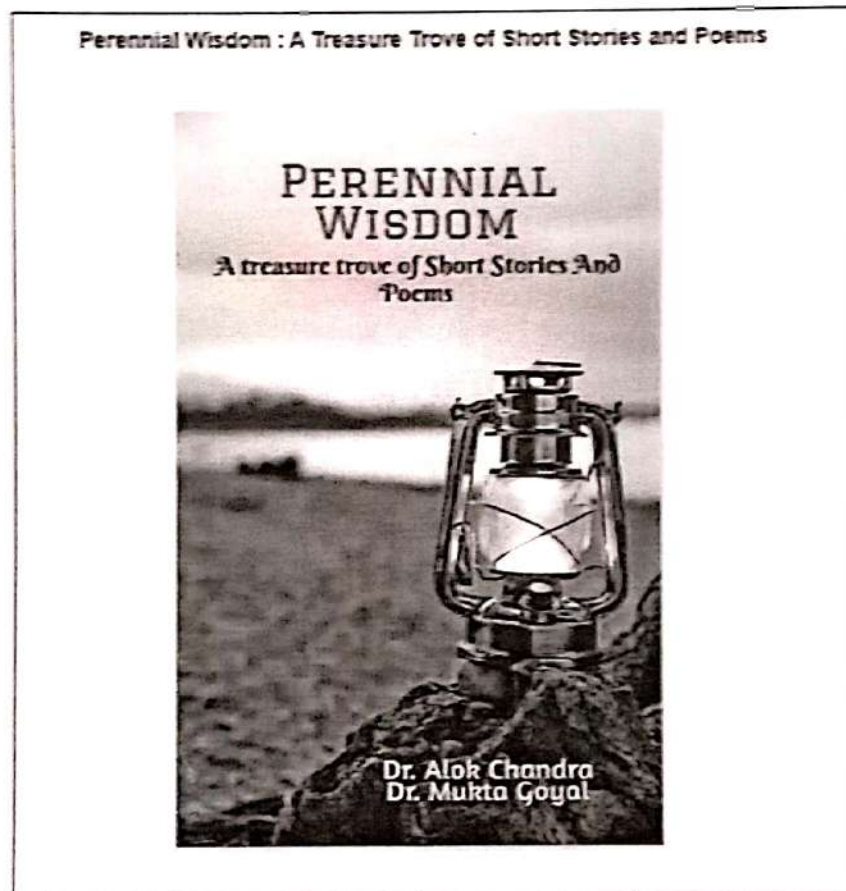
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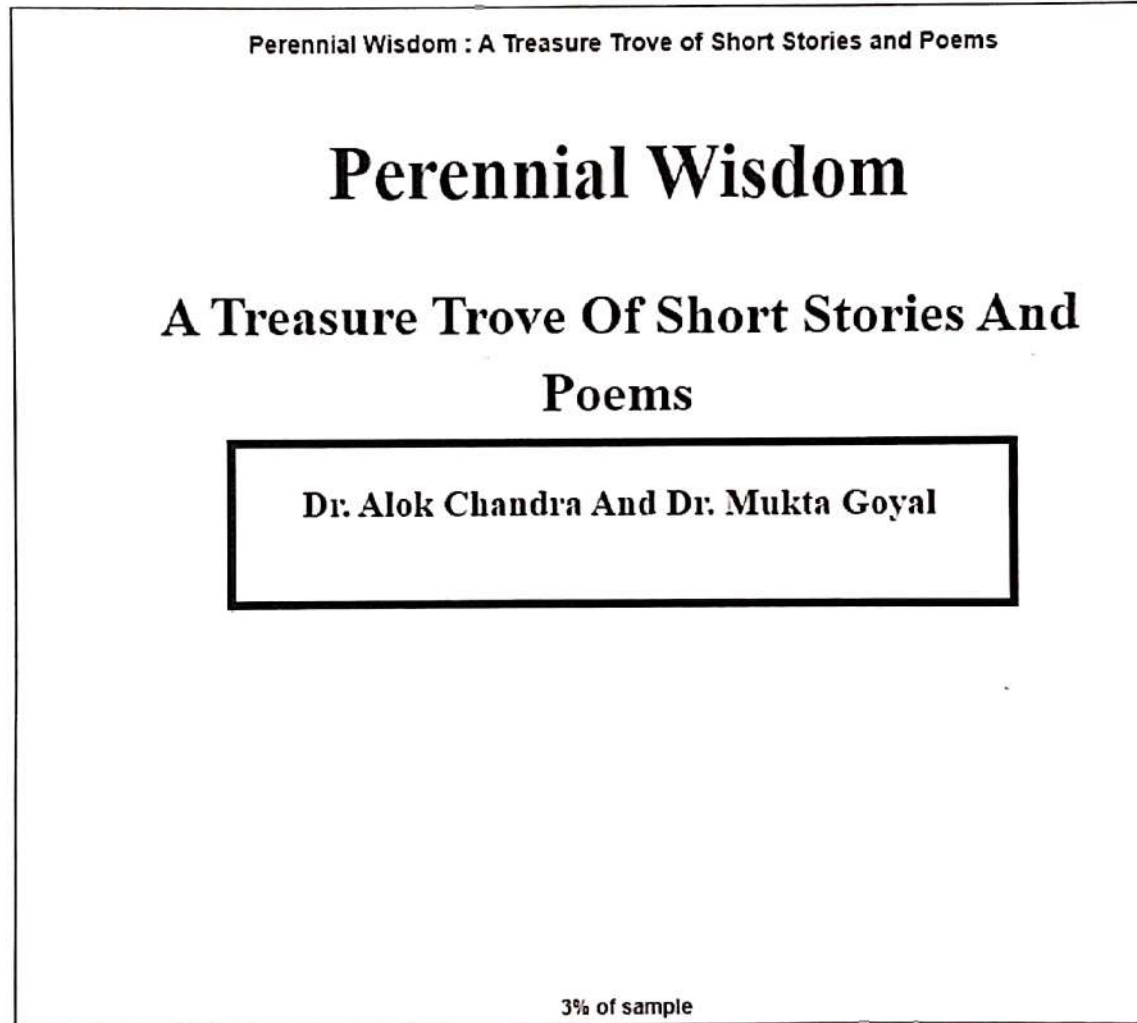
**BOOK TITLE: PERENNIAL WISDOM**



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Perennial Wisdom : A Treasure Trove of Short Stories and Poems

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2. Behind Draupadi's Laughter.....
3. Friendship: An Inspirational Story of Utmost Determination and Honesty

Perennial Wisdom : A Treasure Trove of Short Stories and Poems

4. Childhood Friend
5. Strengthening the bond of Humanity in the wake of COVID-19
6. Childhood... "We Miss You"
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11. New Normal Norms
12. When To Stop Covid 19? Covid 2020/2021!!!!!!
13. Likes
14. Frailty
15. Citadel
16. Dreaming of Hope
17. Chandeliers

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Perennial Wisdom : A Treasure Trove of Short Stories and Poems
18. Women
19. School Days
20. Mother
21. Quest
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23. Existing Today
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Perennial Wisdom : A Treasure Trove of Short Stories and Poems
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34. The Carpenter Cuts The Wood...
35. Our Country is ...
36. Here Comes The Charming...
37. Here We Are Sitting...
38. A Red tale
<i>Author's Bio</i>



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Perennial Wisdom : A Treasure Trove of Short Stories and Poems

## Foreword

It gives me indeed great joy to write the foreword for the present anthology entitled "*Perennial Wisdom: A Treasure Trove of Short Stories and Poems*" Edited by Dr Alok Chandra and Dr Mukta Goyal. This is really a wonderful collection of remarkable creative writings of a bunch of contributors from pan India with rich fragrance of wisdom. I am so very excited to see the original creative works of literature with superior quality. It stands evident for the real hard work of both the editors.

Perennial Wisdom : A Treasure Trove of Short Stories and Poems

## List of Short Stories and Poems

\* \* \*

1. From Darkness To Light- **\*\*Disha Madan**
2. Behind Draupadi's Laughter..... **\*\*Original: Telugu**  
Written By 'P. V. B.Sriramamurthy Translated Into  
English By **\*\*Dr Karunanidhi Ketireddy.**
3. Friendship: An Inspirational Story Of Utmost  
Determination And Honesty-**\*\*Dr. Alok Chandra.**



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**Perennial Wisdom : A Treasure Trove of Short Stories and Poems**

**List of Authors**

- 1. Disha Madan**
- 2. P. V. B.Sriramamurthy**
- 3. Dr. Alok Chandra**
- 4. Bhallam Anil Raju**
- 5. Dr. Rachna Rastogi**
- 6. Dr. Mukta Goyal**

  
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The present anthology entitled "Perennial Wisdom: An Anthology of Short Stories and Poems" contains precious gems in the form of captivating stories and poems. It is drenched in the elixir of manifold wisdom and the same is the outcome of the contributors' strong passion as well as unbreakable commitment to make the present anthology an effective means of social and ecological awareness. It mirrors the creative writers' real literary calibre or talents who have gifted the present literary work a bunch of relevant themes. Moreover, the most striking feature of this anthology is grounded on the concrete facts of its perennial usefulness and wisdom which bestow elevated eyesight to worldly people ensuring their heartiest respect, love, sympathy, care, etc. towards both the domestic and the natural creatures of the blue-Planet.

Dr. Alok Chandra is currently working as an Assistant Professor in the Department of English at Sri Abiraami Arts and Science College for Women, Gudiyattam, Vellore, Tamilnadu. He is the Vice President of World English Language Learners, Teachers and Trainers Association (WELLTTA). He is a poet, critic, reviewer, and editor who hails from Bargaon, Nalanda, Bihar. He has completed his Ph.D. degree in English from Nava Nalanda Mahavihara (Deemed to be University), Under Ministry of Culture, Govt. of India, Nalanda, Bihar. He is the Editor/Editorial Board Member of three international peer reviewed and referred journals. He is the recipient of best research paper award in a national conference for his paper entitled 'The poetry of Gary Synder: An Ecological Perspective', organized by the Dept. of English, Andhra Loyola Institute of Engineering and Technology, Vijayawada, Andhra Pradesh.

Dr Mukta Goyal is a dedicated professional having an experience of almost a decade in academia. Presently she is working as a Principal in Manvi Institute of Edu. &Tech, Delhi, SCERT. She has completed her Ph. D. in Management from Mewar University, Chittorgarh. She has been conferred with the 'Best Principal' Award in the year 2022 along with 'The Real Super Woman' Award in the year 2020. She holds her credit to author four books and also edited around Twenty books with different titles. She is also a regular columnist in newspapers and very much acclaimed for her poetries. Recently Many of her research papers have been acknowledged and published in the Journal of National and International repute as well as conference proceedings too.



  
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BOOK TITLE: REVISITING POST - COLONIAL LITERATURE: THEMATIC AND CONTEXTUAL CONCERNS



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**Dr. Ashish Gupta** is Professor & Head of the Department of English in Govt. Girls College, Betul (M.P.), India. His teaching experience is 28 years. He is a registered Ph. D. Guide in Barkatullah University, Bhopal, India. Under his supervision, number of scholars are awarded Ph.D. & M. Phil. He is a member of DoS Chhindwara University, Chhindwara.

Till now, 112 research papers & book chapters of him are published in reputed journals/anthologies. He addressed as a Key Note Speaker in many National/International Webinars. He has attended/participated in many national/international Seminars, Webinars, FDPs & Conferences, presented papers chaired the session and got appreciation. He is the Associate Editor member of the Editorial Advisory Review board of various prestigious International Refereed Peer reviewed Journals on literary explorations. He is a well appraised academician amongst literary personalities. He has completed one Minor Research Project under financial assistance of U.G.C. Four Patras in Alara in his credit. Till now 22 edited books/anthologies from renowned publications are in his credit. He has authored 5 books and 4 e-books also. His many authored and edited books have been included in many international universities like The National Library Singapore, The British Library London U.K., Library of Zurich, Switzerland etc.

Editors | **Dr. Alok Chandra**  
**Dr. Ashish Gupta**

## Revisiting Postcolonial Literature: Thematic and Contextual Concerns




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MRP: 995.00 INR | 160 USD

ISBN: 978-93-92189-07-4



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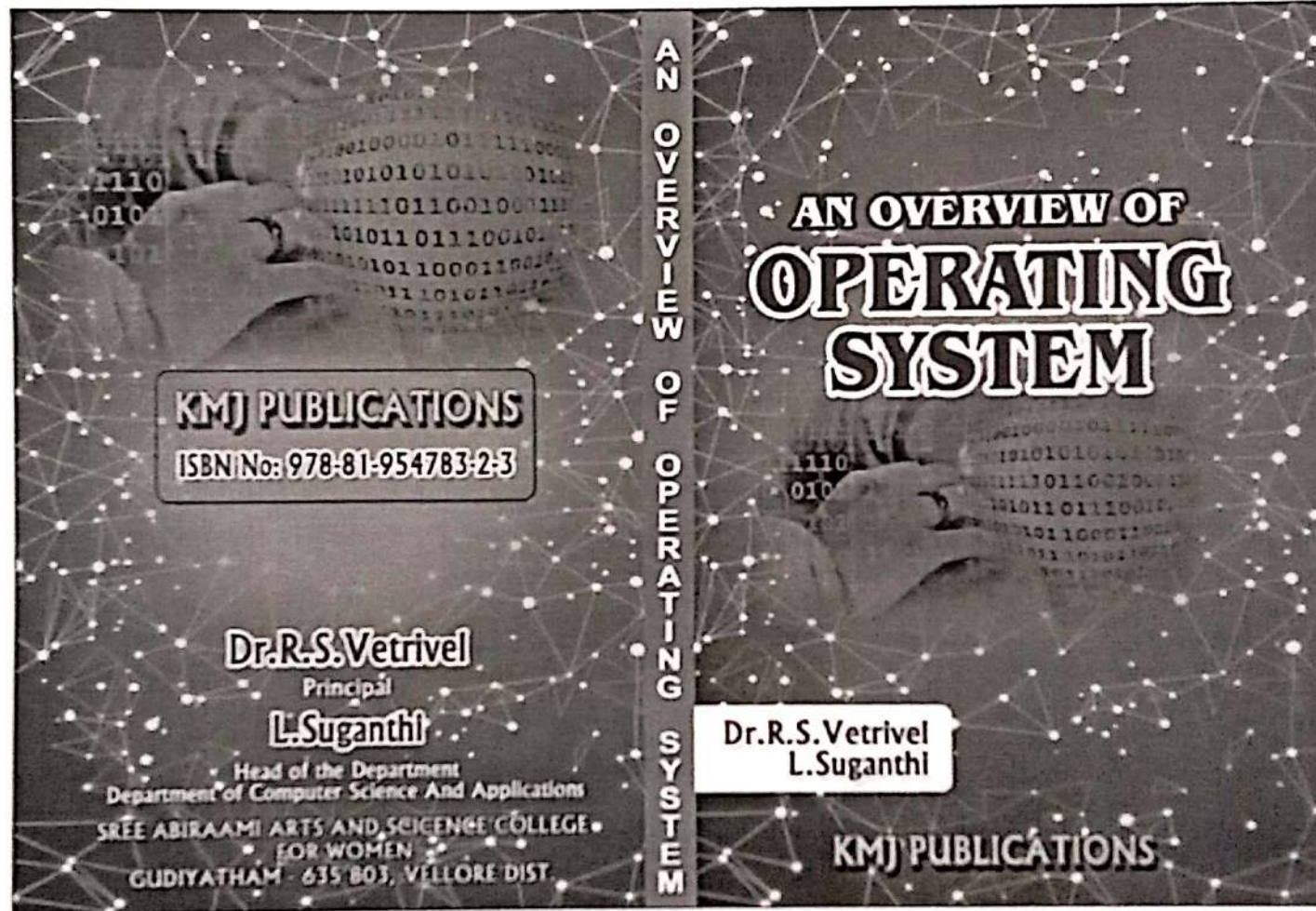
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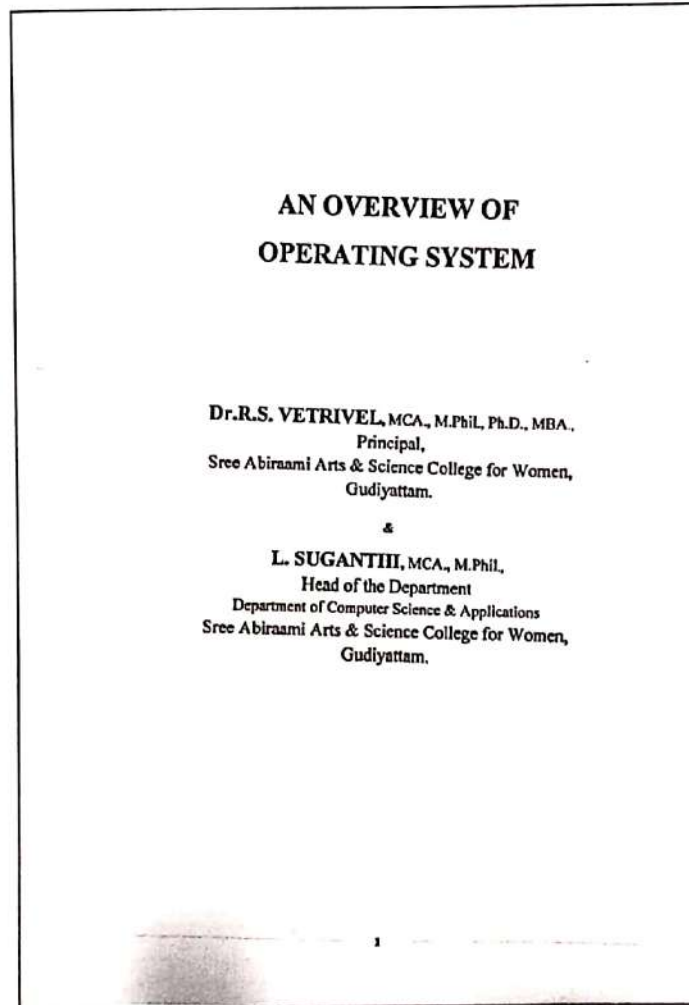
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BOOK TITLE: AN OVERVIEW OF OPERATING SYSTEM



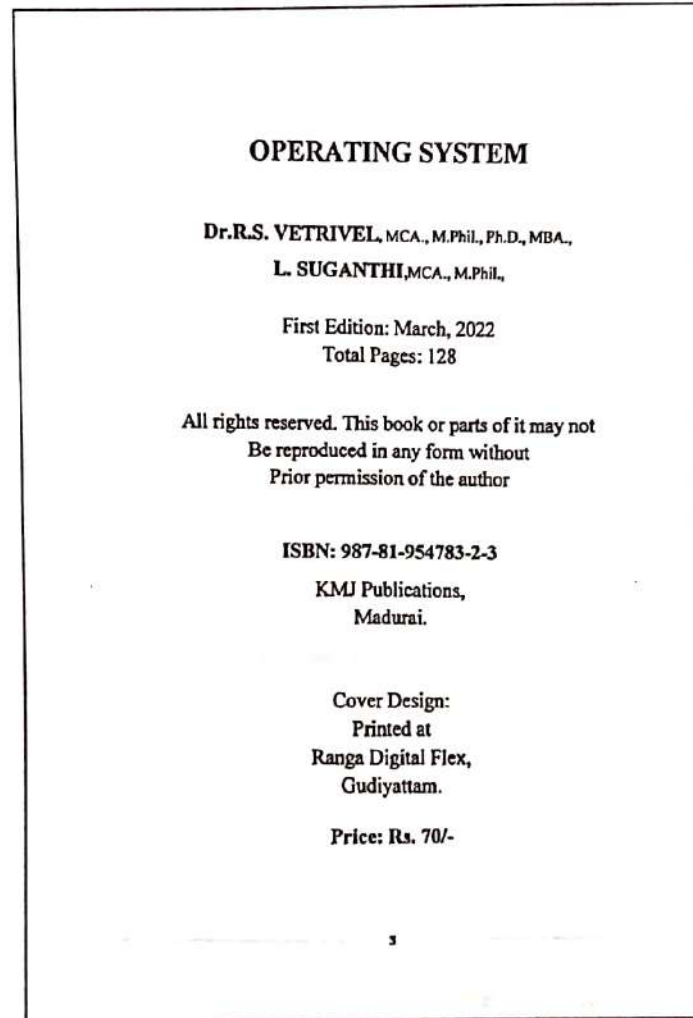
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**Unit- III Memory management**

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**Unit – IV Swapping**

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**Unit –V File Management**

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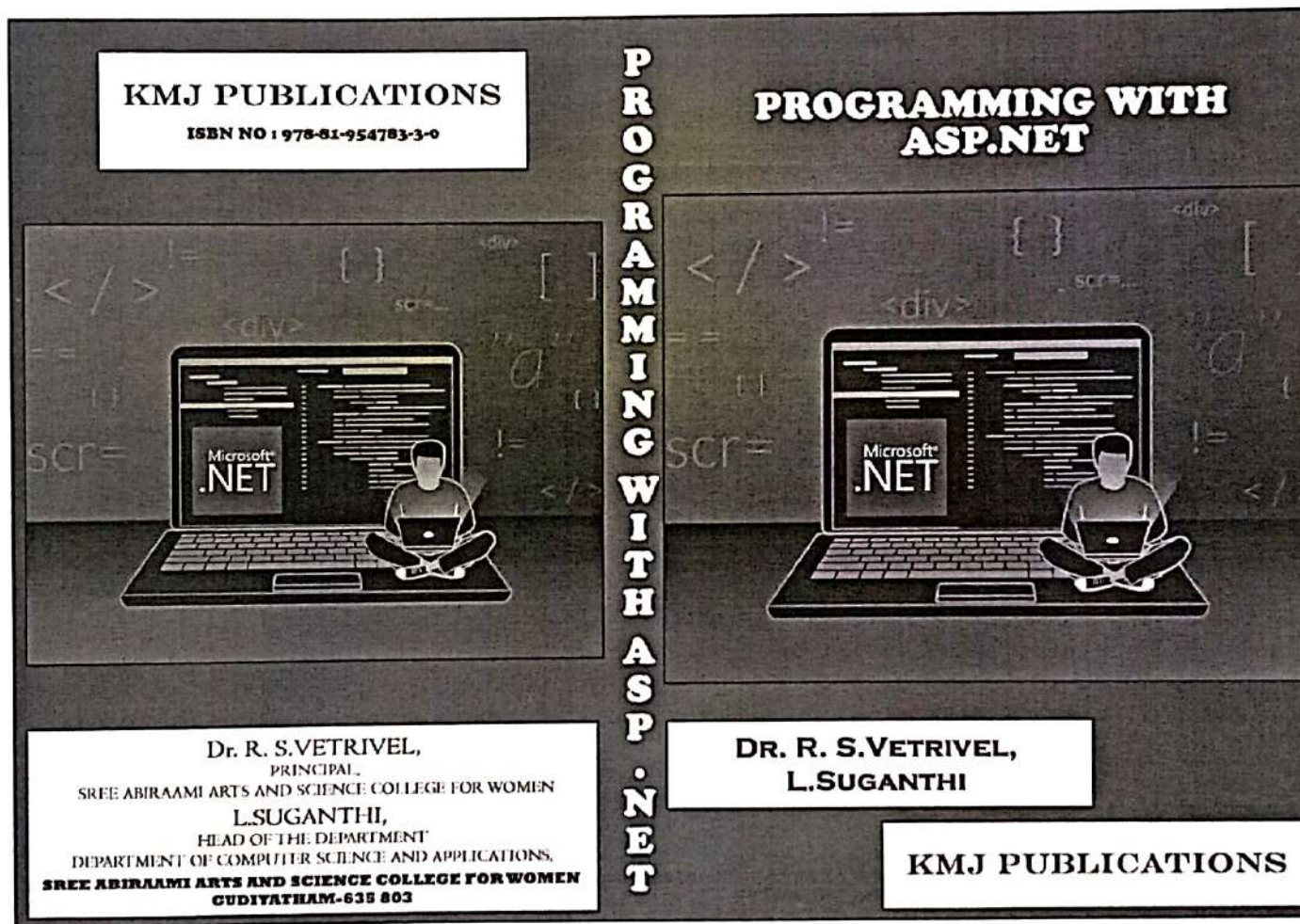
Sl. No.	Academic Year	Name of the teacher	Title of the book /chapters published	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
5	2021-2022	Dr.R.S.Vetrivel & Mrs.L.Suganthi	Programming with ASP.NET	-	-	-	-	2022	ISBN: 978-81-954783-3-0	Sree Abiraami Arts And Science College for Women.	KMJ - Publications

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**PROGRAMMING WITH ASP.NET**

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**PROGRAMMING WITH ASP.NET**

**Dr.R.S. VETRIVEL**, MCA., M.Phil., Ph.D., MBA.,

**L. SUGANTHI**, MCA., M.Phil.,

First Edition: April, 2022

Total Pages: 96

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ISBN: 978-81-954783-3-0

KMJ Publications,  
Madurai.

Cover Design:  
Printed at  
Ranga Digital Flex,  
Gudiyattam.

Price: Rs. 70/-

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PREFACE

ASP (Active Server Pages) is a relatively new technology that has already leapt through several stages of evolution. It was introduced about five years ago as an easy way to add dynamic content to ordinary web pages. Since then, it's quickly transformed into something entirely different: a platform for creating advanced web applications, including e-commerce shops, sata - driven portal sites, and just about anything else you can find on the Internet.

As a result of this transformation, ASP developers have become experts in compromise. They've created innovative solutions using custom components, include files, and other tricks in order to manage the tangle of scripting code and provide advanced features. With a little work, it's possible - but not easy - to work with transactions, databases, and remote components. In other words, what began as a simple solution for creating interactive web pages has become a complicated discipline that requires knowledge in several fields and some painful experience.

The .NET platform promises to change all that. The drawback is the fairly serious learning curve involved in a mastering a whole new framework. The good news is that this framework is designed for web applications from the ground up. It's well planned, well organized, and easier to learn than traditional ASP. It's also stuffed full of prebuilt functionality that can make many common tasks effortless.

  
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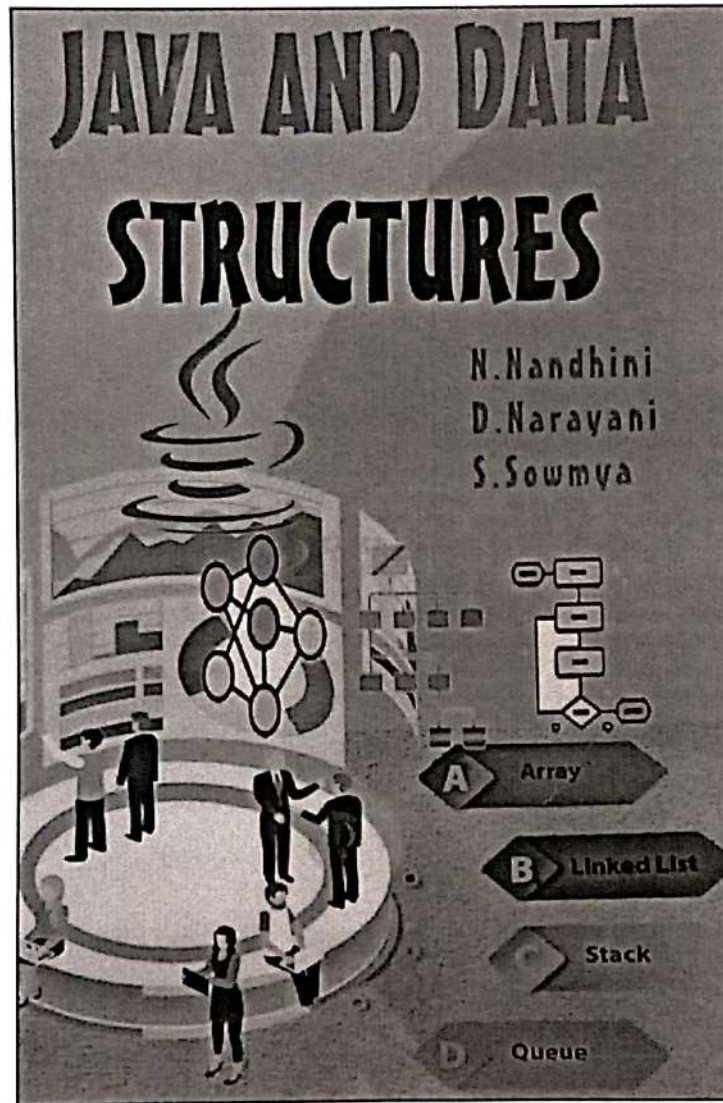
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Sl. No.	Academic Year	Name of the teacher	Title of the book /chapters published	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
6	2021-2022	Mrs.D.Narayani	Java and Data Structure	-	-	-	-	2021	ISBN: 978-93-91871-12-3	Sree Abiraami Arts and Science College for Women.	UDHAYAS SPNC Publication

  
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SPNC PUBLICATION  
#75, TNHB, NEAR SAIBARA TEMPLE,  
AYAPAKKAM, CHENNAI - 600 077  
☎ : 044 7969 1490, 4 : 9803124064 / 9444077064  
✉ : spncpublication@gmail.com / udhayasbooks@gmail.com  
www.udhayasbooks.com



ISBN: 978-93-91871-12-3

₹315/-

  
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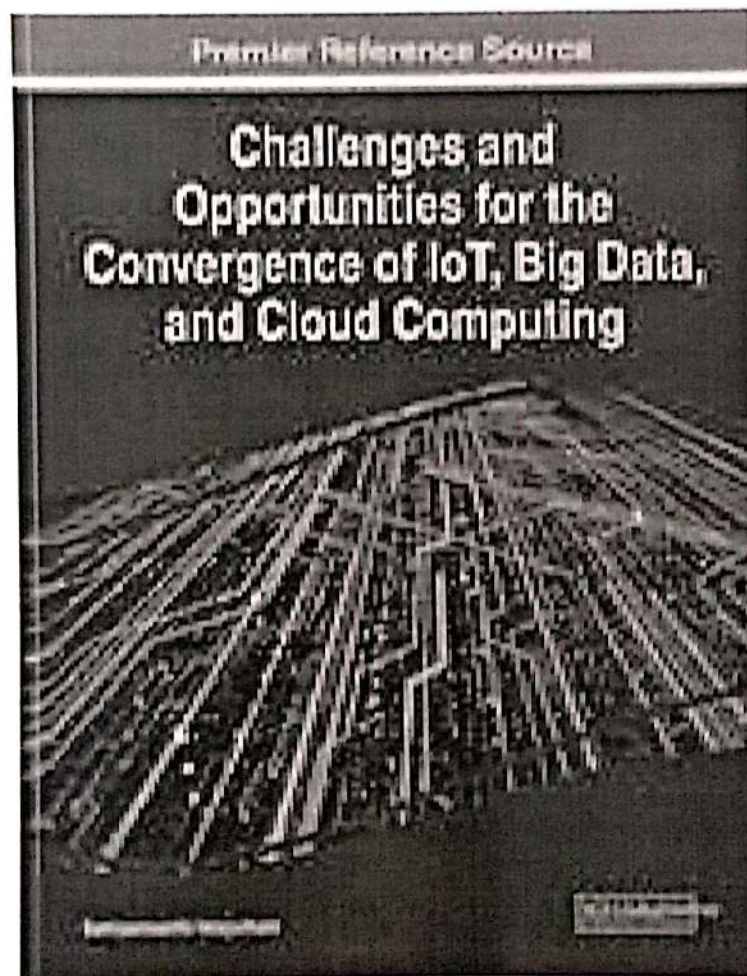
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SL No.	Academic Year	Name of the teacher	Title of the book /chapters published	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
7	2020-2021	Mrs.R.Swathi	An IoT-Based Energy Meter for Energy Level Monitoring, Predicting, and Optimization"	Challenges and Opportunities for the Convergence of IoT, Big Data, and Cloud Computing	-	-	-	2021	ISBN: 97817998 31112, eISBN: 97817998 31136	Sree Abiraami Arts and Science College for Women.	IGI GlobL Publishers of Timely Knowledge

  
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**BOOK TITLE: CHALLENGES AND OPPORTUNITIES FOR THE CONVERGENCE OF IOT, BIG DATA, AND CLOUD COMPUTING**



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*Mutwalibi Nambobi, Islamic University, Uganda*

*Kanyana Ruth, Kampala International University, Uganda*

*Adam A. Alli, Islamic University of Technology, Bangladesh*

*Rajab Ssemwogerere, Islamic University, Uganda*

The age of autonomous sensing has dominated almost every industry today. Our lives have been engaged with multiple sensors embedded in our smartphones to achieve sensing of all sorts starting from proximity sensing to social sensing. Our possessions (cars, fridges, oven) have sensors embedded in them. The art of autonomous IoT has shifted from a mere detection of events or changes in the environment to dominant systems for social sensing, big data analytics, and smart things. Recently, sensing systems have adapted connectivity resulting in input mechanisms for big data analytics and smart systems resulting in pervasive systems. Currently, a range of sensors has come to existence, for example, mobile phone sensors that measure blood pressure at patients' figure tip, or the sensors that be used to detect deforestation. In this chapter, the authors provide a technical view upon which autonomous IoT devices can be implemented and enlist opportunities and challenges of the same.

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*Rashmi S., Dayananda Sagar College of Engineering, India*

*Roopashree S., Dayananda Sagar University, India*

*Sathiyamoorthi V., Sona College of Technology, India*

Cloud computing and internet of things (IoT) are two disparate technologies that can be united for a common purpose as in an operating profit. The technologies are integral parts of modern sophisticated human life. In the future, it is destined to proliferate boundlessly covering utmost spheres. This chapter describes the challenges faced in adopting the two technologies. Edge computing includes both computing and processing the information are carried at the edge of the IoT devices where vast information gathered instead of relying on the central location. Benefits include avoiding latency issues, improving the performance of the application, and cost effectiveness as it reduces the data volume to be processed in cloud/centralized location. In the advent of IoT devices, edge computing is a vital step in building any

  
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of its application which sends and receives enormous information to and from the cloud over the course of operations. Applications such as virtual reality and smart systems are benefited by edge computing as they expect higher rate of response and processing speed. A case study on video surveillance is done in this chapter.

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*Shaila S. G., Dayananda Sagar University, India*

*Monish L., Dayananda Sagar University, India*

*Lavanya S., Dayananda Sagar University, India*

*Sowmya H. D., Dayananda Sagar University, India*

*Divya K., Dayananda Sagar University, India*

The new trending technologies such as big data and cloud computing are in line with social media applications due to their fast growth and usage. The big data characteristic makes data management challenging. The term big data refers to an immense collection of both organised and unorganised data from various sources, and nowadays, cloud computing supports in storing and processing such a huge data. Analytics are done on huge data that helps decision makers to take decisions. However, merging two conflicting design principles brings a challenge, but it has its own advantage in business and various fields. Big data analytics in the cloud places rigorous demands on networks, storage, and servers. The chapter discusses the importance of cloud platform for big data, importance of analytics in cloud and gives detail insight about the trends and techniques adopted for cloud analytics.

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*Sivakumar V., Dayananda Sagar Academy of Technology and Management, India*

*Swathi R., Sree Abiraami College for Women, Thiruvalluvar University, Vellore, India*

*Yuvaraj V., Shenzhen Center Power Tech Co. Ltd., Shenzhen, China*

The current methods of energy monitoring and metering in India are extremely labor-intensive and prone to human errors. The system the authors propose will incorporate an automatic energy reading meter system (AERM) which will aid in the collection of data accurately and efficiently. Additionally, power companies find it hard to withstand the power requirement of a consumer because of a surge in industries, buildings, and population. The usage of electrical appliances has drastically increased over time. As per as energy balance maintains between the energy demand and supply for the power companies are bearing in mind an energy supervision technique. Therefore, there is adoption for load scheduling or load shifting to reduce the electricity bill. So consequently, the authors look into various optimization algorithms for load-shifting.

### Chapter 5

Artificial Intelligence Based on Biological Neurons: Constructing Neural Circuits for IoT ..... 66

*Rinat Galiautdinov, Independent Researcher, Italy*

The chapter describes the new approach in artificial intelligence based on simulated biological neurons and creation of the neural circuits for the sphere of IoT which represent the next generation of artificial intelligence and IoT. Unlike existing technical devices for implementing a neuron based on classical nodes oriented to binary processing, the proposed path is based on simulation of biological neurons, creation

  
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of biologically close neural circuits where every device will implement the function of either a sensor or a "muscle" in the frame of the home based live AI and IoT. The research demonstrates the developed nervous circuit constructor and its usage in building of the AI (neural circuit) for IoT.

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*Anchitaalagammai J. V., Velammal College of Engineering and Technology, India*

*Kavitha S., Velammal College of Engineering and Technology, India*

*Murali S., Velammal College of Engineering and Technology, India*

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The internet of things (IoT) is rapidly changing our society to a world where every "thing" is connected to the internet, making computing pervasive like never before. It is increasingly becoming a ubiquitous computing service, requiring huge volumes of data storage and processing. Unfortunately, due to the lack of resource constraints, it tends to adopt a cloud-based architecture to store the voluminous data generated from IoT application. From a security perspective, the technological revolution introduced by IoT and cloud computing can represent a disaster, as each object might become inherently remotely hackable and, as a consequence, controllable by malicious actors. This chapter focus on security considerations for IoT from the perspectives of cloud tenants, end-users, and cloud providers in the context of wide-scale IoT proliferation, working across the range of IoT technologies. Also, this chapter includes how the organization can store the IoT data on the cloud securely by applying different Access control policies and the cryptography techniques.

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Big Data IoT Analytics for Smart Cities With Cloud Computing Technique..... 104

*Chellaswamy C., Kings Engineering College, Chennai, India*

*Sathyamoorthi V., Sona College of Technology, India*

Currently, cities are being reconstructed to smart cities that use an information and communication technology (ICT) framework alongside the internet of things (IoT) technology to increase efficiency and also share information with the public, helping to improve the quality of government services citizens' welfare. This large, diverse set of information called big data is obtained by ICT and IoT technologies from smart cities. This information does not have any meaning of its own but a high potential to make use of smart city services. Therefore, the information collected is mined and processed through use of big data analytic techniques. The environmental footprints in smart cities can be monitored and controlled with the help of ICT. Big data analytic techniques help enhance the functionalities of smart cities and the 4G and 5G network provides strong connectivity for professional devices.

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*Karthika K., Adhiyamaan College of Engineering, Hosur, India*

*Devi Priya R., Kongu Engineering College, Erode, India*

*Sathishkumar S., Adhiyamaan College of Engineering, Hosur, India*

Various unimaginable opportunities and applications can be attained by the development of internet-connected automation. The network system with numerous wired or wireless smart sensors is called as

  
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IoT. It is showing various enhancement for past few years. Without proper security protection, various attacks and threats like cyberattacks threat causes serious disaster to IoT from the day it was introduced. Hence, IoT security system is improvised by various security and the management techniques. There are six sections in security management of IoT works. IoT security requirement is described intensively. The proposed layered of security management architecture is being defined and explained. Thus, this proposed architecture shows the security management system for IoT network tight security management for a network of the IoT which is elaborately explained with examples and about GDPR. In information security, intrusion recognizable proof is the showing of placing exercises that attempt to deal the protection, respectability, or availability of a benefit.

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*Shaila S. G., Dayananda Sagar University, India*

*Bhuvana D. S., Dayananda Sagar University, India*

*Monish L., Dayananda Sagar University, India*

Big data and the internet of things (IoT) are two major ruling domains in today's world. It is observed that there are 2.5 quintillion bytes of data created each day. Big data defines a very huge amount of data in terms of both structured and unstructured formats. Business intelligence and other application domains that have high information density use big data analytics to make predictions and better decisions to improve the business. Big data analytics is used to analyze a high range of data at a time. In general, big data and IoT were built on different technologies; however, over a period of time, both of them are interlinked to build a better world. Companies are not able to achieve maximum benefit, just because the data produced by the applications are not utilized and analyzed effectively as there is a shortage of big data analysts. For real-time IoT applications, synchronization among hardware, programming, and interfacing is needed to the greater extent. The chapter discusses about IoT and big data, relation between them, importance of big data analytics in IoT applications.

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*Sathishkumar S., Adhiyamaan College of Engineering, Hosur, India*

*Devi Priya R., Kongu Engineering College, Erode, India*

*Karthika K., Adhiyamaan College of Engineering, Hosur, India*

Big data computing in clouds is a new paradigm for next-generation analytics development. It enables large-scale data organizations to share and explore large quantities of ever-increasing data types using cloud computing technology as a back-end. Knowledge exploration and decision-making from this rapidly increasing volume of data encourage data organization, access, and timely processing, an evolving trend known as big data computing. This modern paradigm incorporates large-scale computing, new data-intensive techniques, and mathematical models to create data analytics for intrinsic information extraction. Cloud computing emerged as a service-oriented computing model to deliver infrastructure, platform, and applications as services from the providers to the consumers meeting the QoS parameters by enabling the archival and processing of large volumes of rapidly growing data faster economy models.

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*Revathi Rajendran, SRM Valliammai Engineering College, India*

*Arthi Kalidasan, SRM Valliammai Engineering College, India*

*Chidhambara Rajan B., SRM Valliammai Engineering College, India*

The evolution of digital era and improvements in technology have enabled the growth of a number of devices and web applications leading to the unprecedented generation of huge data on a day-to-day basis from many applications such as industrial automation, social networking sites, healthcare units, smart grids, etc. Artificial intelligence acts as a viable solution for the efficient collection and analyses of the heterogeneous data in large volumes with reduced human effort at low time. Machine learning and deep learning subspaces of artificial intelligence are used for the achievement of smart intelligence in machines to make them intelligent based on learning from experience automatically. Machine learning and deep learning have become two of the most trending, groundbreaking technologies that enable autonomous operations and provide decision making support for data processing systems. The chapter investigates the importance of machine learning and deep learning algorithms in instilling intelligence and providing an overview of machine learning, deep learning platforms.

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*Selvaraj Kesavan, DXC Technology, India*

*Senthilkumar J., Sona College of Technology, India*

*Suresh Y., Sona College of Technology, India*

*Mohanraj V., Sona College of Technology, India*

In establishing a healthy environment for connectivity devices, it is essential to ensure that privacy and security of connectivity devices are well protected. The modern world lives on data, information, and connectivity. Various kinds of sensors and edge devices stream large volumes of data to the cloud platform for storing, processing, and deriving insights. An internet of things (IoT) system poses certain difficulties in discretely identifying, remotely configuring, and controlling the devices, and in the safe transmission of data. Mutual authentication of devices and networks is crucial to initiate secure communication. It is important to keep the data in a secure manner during transmission and in store. Remotely operated devices help to monitor, control, and manage the IoT system efficiently. This chapter presents a review of the approaches and methodologies employed for certificate provisioning, device onboarding, monitoring, managing, and configuring of IoT systems. It also examines the real time challenges and limitations in and future scope for IoT systems.

## Chapter 13


Machine and Deep Learning Techniques in IoT and Cloud ..... 225

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*Kavitha M., Sri Krishna College of Engineering and Technology, India*

*Sathiyamoorthi V., Sona College of Technology, India*

For centuries, the concept of a smart, autonomous learning machine has fascinated people. The machine learning philosophy is to automate the development of analytical models so that algorithms can learn continually with the assistance of accessible information. Machine learning (ML) and deep learning (DL)

  
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methods are implemented to further improve an application's intelligence and capacities as the quantity of the gathered information rises. Because IoT will be one of the main sources of information, data science will make a significant contribution to making IoT apps smarter. There is a rapid development of both technologies, cloud computing and the internet of things, considering the field of wireless communication. This chapter answers the questions: How can IoT intelligent information be applied to ML and DL algorithms? What is the taxonomy of IoT's ML and DL and profound learning algorithms? And what are real-world IoT data features that require data analytics?

#### Chapter 14

Perspectives of Machine Learning and Deep Learning in Internet of Things and Cloud: Artificial Intelligence-Based Internet of Things System ..... 248

*Preethi Sambandam Raju, SRM Valliammai Engineering College, India*

*Revathi Arumugam Rajendran, SRM Valliammai Engineering College, India*

*Murugan Mahalingam, SRM Valliammai Engineering College, India*

This chapter brings out the perspective outcomes of combining three terminologies: artificial intelligence, cloud, and internet of things. The relation between artificial intelligence, machine learning, and deep learning is also emphasized. Intelligence, which is the capability to attain and apply knowledge in addition to skills, is analysed in the following sections of the chapter along with its categories that include natural intelligence, artificial intelligence, and hybrid intelligence. Analysis of artificial intelligence-based internet of things system is deliberated on two approaches, namely criterion-based analysis and elemental analysis. Criterion-based analysis covers the parameter-based investigation to highlight the relation between machine learning and deep learning. Elemental analysis involves four main components of artificial intelligence-based internet of things system, such as device, data, algorithm, and computation. Research works done using deep learning and internet of things are also discussed.

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Real-Time Problems to Be Solved by the Combination of IoT, Big Data, and Cloud Technologies.. 265

*Shaila S. G., Dayananda Sagar University, India*

*Monish L., Dayananda Sagar University, India*

*Rajlaxmi Patil, Dayananda Sagar University, India*

With the advancement of computation power and internet revolution, IoT, big data, and cloud computing have become the most prevalent technologies in present time. Convergence of these three technologies has led to the development of new opportunities and applications which solve the real time problems in the most efficient way. Though cloud computing and big data have an inherent connection between them, IoT plays a major role of a data source unit. With the explosion of data, cloud computing is playing a significant role in the storage and management. However, the main concern that accompanies IoT are the issues related to privacy, security, power efficiency, computational complexities, etc. Misinterpretation of data and security limitations are the bottlenecks of big data whereas the limitations of cloud computing involve network connection dependency, limited features, technical issues, and security. The chapter considers use cases to address their real time problems and discusses about how to solve these issues by combining these technologies.

  
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## Chapter 16

Surveillance of Type I and II Diabetic Subjects on Physical Characteristics: IoT and Big Data

Perspective in Healthcare@NCR, India..... 277

*Rohit Rastogi, ABES Engineering College, Ghaziabad, India*

*Devendra Chaturvedi, Dayalbagh Educational Institute, India*

*Parul Singhal, ABES Engineering College, Ghaziabad, India*

The Delhi and NCR healthcare systems are rapidly registering electronic health records and diagnostic information available electronically. Furthermore, clinical analysis is rapidly advancing, and large quantities of information are examined and new insights are part of the analysis of this technology experienced as big data. It provides tools for storing, managing, studying, and assimilating large amounts of robust, structured, and unstructured data generated by existing medical organizations. Recently, data analysis data have been used to help provide care. The present study aimed to analyse diabetes with the latest IoT and big data analysis techniques and its correlation with stress (TTH) on human health. The authors have tried to include age, gender, and insulin factor and its correlation with diabetes. Overall, in conclusion, TTH cases increasing with age in case of males and not following the pattern of diabetes variation with age, while in the case of females, TTH pattern variation is the same as diabetes (i.e., increasing trend up to age of 60 then decreasing).

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## Chapter 4

# An IoT–Based Energy Meter for Energy Level Monitoring, Predicting, and Optimization

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### ABSTRACT

*The current methods of energy monitoring and metering in India are extremely labor-intensive and prone to human errors. The system the authors propose will incorporate an automatic energy reading meter system (AERM) which will aid in the collection of data accurately and efficiently. Additionally, power companies find it hard to withstand the power requirement of a consumer because of a surge in industries, buildings, and population. The usage of electrical appliances has drastically increased over time. As per as energy balance maintains between the energy demand and supply for the power companies are bearing in mind an energy supervision technique. Therefore, there is adoption for load scheduling or load shifting to reduce the electricity bill. So consequently, the authors look into various optimization algorithms for load-shifting.*

### INTRODUCTION

The Internet of Things is a moderately new model that describes a group of coordination, methods, objects, etc., by way of Internet Protocol v6 support onto the Internet environment. In the existing method of power supply grid is setup with an IoT arrangement is mainly used to improve the complications faced

DOI: 10.4018/978-1-7998-3111-2.ch004

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*2017-2018*

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FACULTY NAME: R.VIDHYA

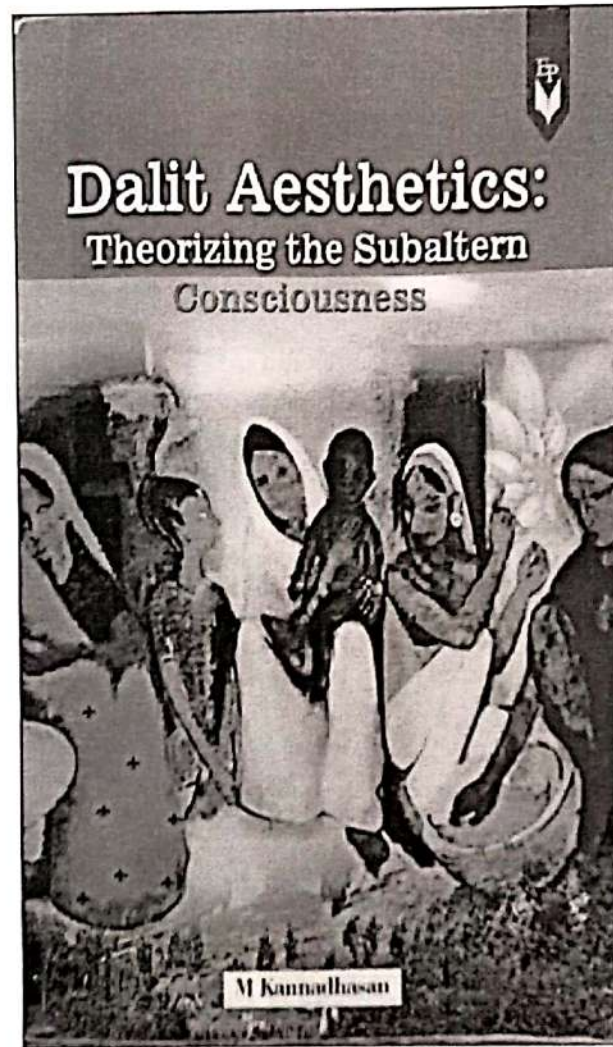
3.3.2 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five year											
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10	2017-2018	R.Vidhya	Dalit Aesthetics : Theorizing the Subaltern Consciousness	Depiction of Dalit Women in the novels of Imayam	Nil	Nil	National	2018	ISBN: 978-81-7966-474-2	Sree Abiraami Arts and Science College for Women	Emerald

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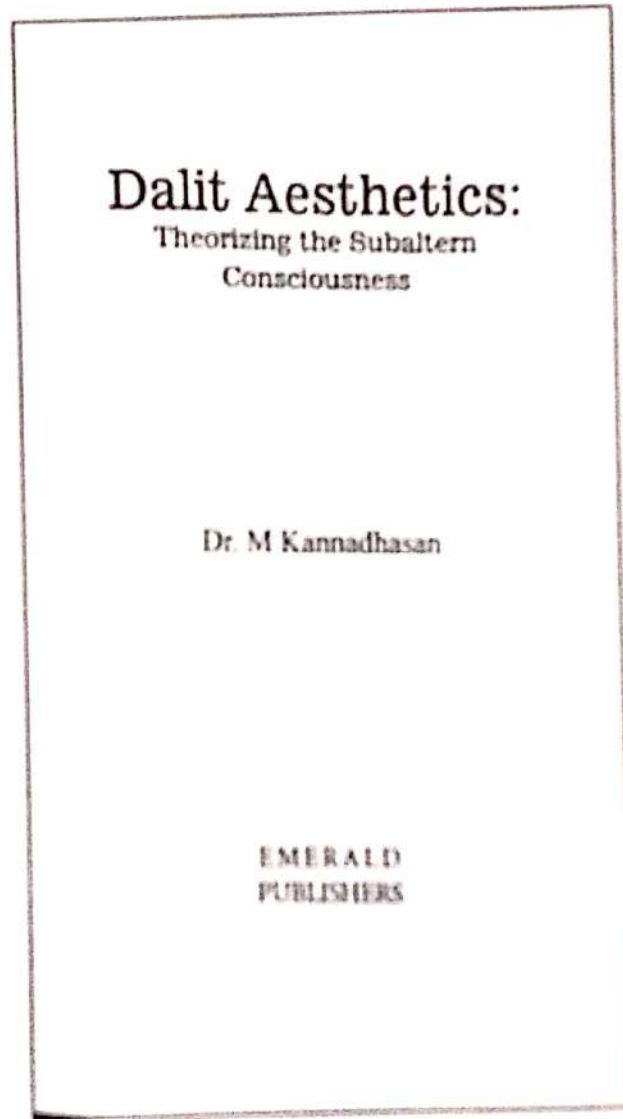
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Dalit Aesthetics:  
Theorizing the Subaltern Consciousness  
Dr. M Kannadhasan

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Published by  
Olivannan Gopalakrishnan  
Emerald Publishers  
15A, First Floor, Casa Major Road  
Egmore, Chennai - 600 008.  
☎: +91 44 28193206, 42146994  
✉: info@emeraldpublishers.com  
🌐: www.emeraldpublishers.com

Price : INR 320.00

ISBN : 9788179664742

Printed at : Aruna Enterprises, Chennai.

Dr. M. Kannadhasan  
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## Depiction of Dalit Women in the Novels of Imayam

R. Vidhya  
Assistant Professor  
Abirami Arts & Science College

Imayam was a school teacher in Vridhachalam. Annamalai is his original name. He has born in a peasant family. He studied in a village school which had no science teachers. He began his career as a love poet and then he settled down for prose writing. "I feel more comfortable with prose" says Imaiym. He feels he is still not recognized as a writer in his family circles.

"I am not sure whether any of my family members have been gone through my works. My father, a farmer, has no time for them and my mother is illiterate. Both my brothers too have no literary leanings. I do acknowledge the support from my wife. But then, it is true that the support I get as a writer is only owing to my literary success.

  
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Dr. M. Kannadhasan, an Assistant Professor of English at Thiruvalluvar University, Vellore has published books and articles in National and International journals. His area of specialization is Indian writing in English, Subaltern Literature and English Language Teaching. He is the editor of Conifers Call, the Shimla Journal of Poetry and Criticism and journal of Literary Innovations. He is the author of the two books Grammar: A Pleasure and Maturation of Siddhartha. He is the editor of the following books: Third World Literature: Innovations and Explorations, Crossing the Boundaries: Theory and Practice of Comparative Literature and Borderless Reflections: Critical Essays on Comparative Literature. Recently, he published his poems "Urangatha Virameengal".

*foor*

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ISBN 978-81-7966-474-2



9 788179 664742



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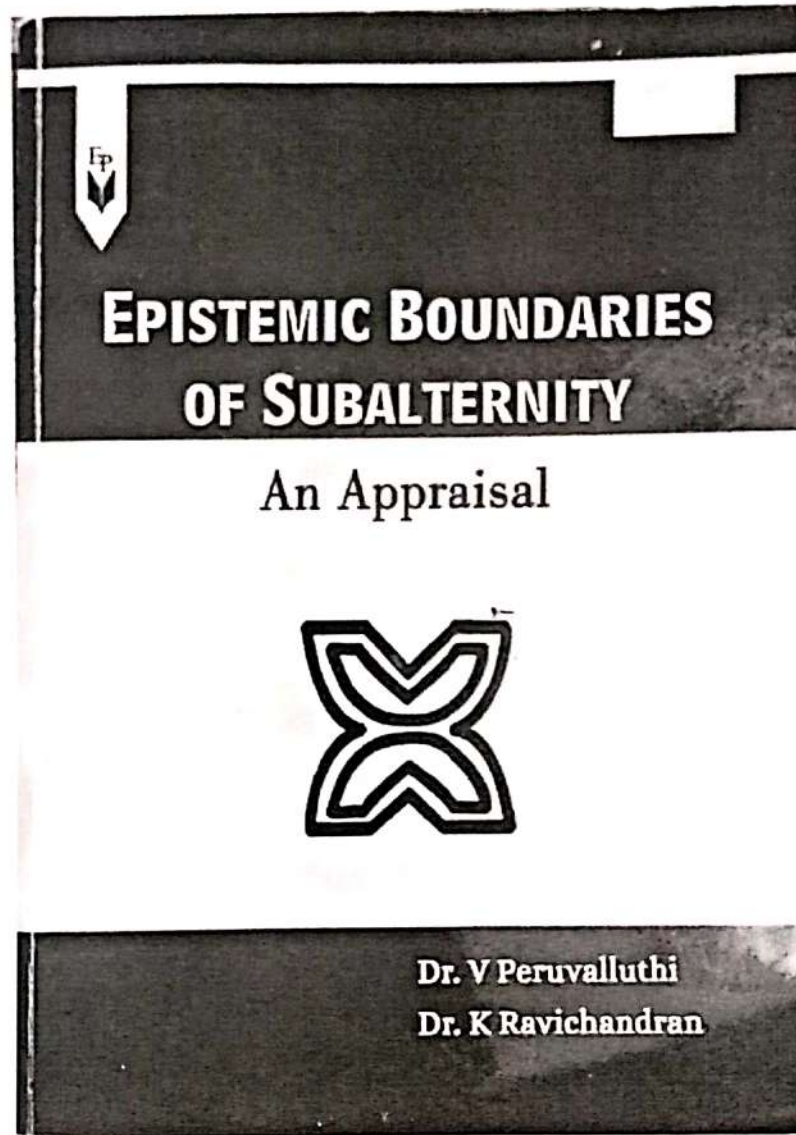
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11	2017-2018	R.Vidha	Epistemic Boundaries of Subalternity : An Appraisal	Taciturnity ; A Critical Analysis of Imayam's Arumugam	Nil	Relocating Subalternity : Changing Configurations	International	2018	ISBN: 978-81-7966-469-8	Sree Abiraami Arts and Science College for Women	Emerald

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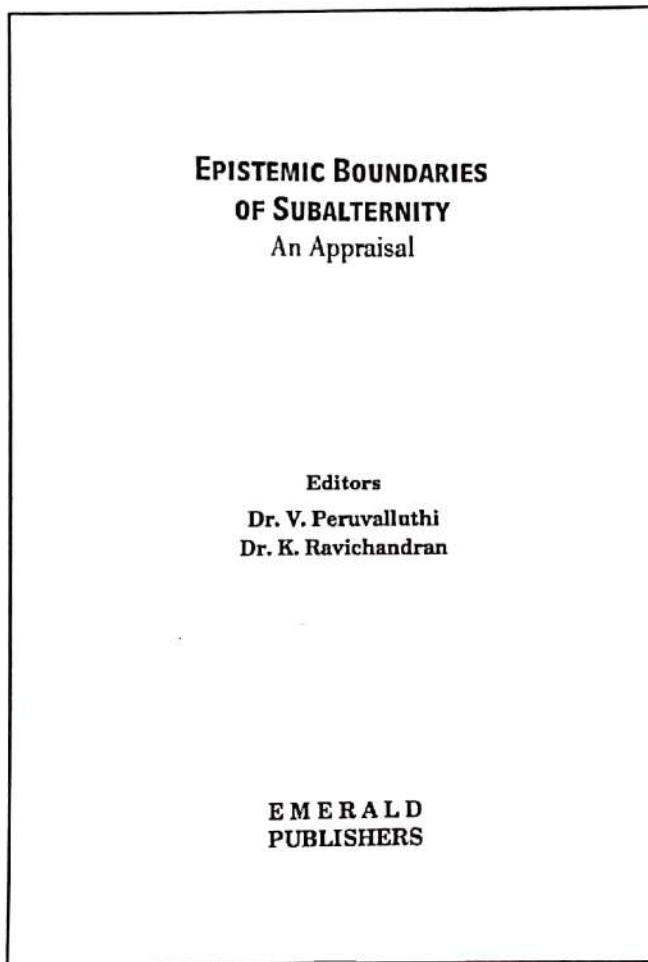
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Epistemic Boundaries of Subalternity: An Appraisal

**Editors**  
Dr. V. Peruvallurthi  
Dr. K. Rameshchandran

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Published by  
Chivannan Cepulakrishnan  
Emerald Publishers  
15A, First Floor, Casa Major Road  
Egmore, Chennai - 600 008.  
☎ +91 44 26193206, 42146994  
✉ info@emeraldpublishers.com  
🌐 www.emeraldpublishers.com

Price - ₹ 600.00  
ISBN - 9788179664698  
Printed at - Arana Enterprises, Chennai

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**Taciturnity: A Critical Analysis of Imayam's *Arumugam***

R.Vidhya

Assistant Professor, Department of English  
Sree Abiraami Arts and Science College for Women  
Gudiyattam

Imayam pen name of V. Annamalai is a prominent Indian novelist in Tamil. His notable works are *Koveru Kazhuthaigal* (Beast of Burden 1994), *Arumugam* (1999), *Manbaram* (short stories, 2002), *Sedal* (2006) he got Sahitya Akademi Award in Tamil. His evocative narration is an exploration of the bondage and conflict between human life and nature. His first novel, *Koveru kazhuthaigal* (Beast of Burden), is one of the most important books in Tamil fiction writing. A timeless tale of a child denied his childhood; *Arumugam* explores the relationship between a mother and son, the difficult emotions that weave their stories into a single fabric of love. Thrown from secure, loving home into the cruel world of the Chekkumedu prostitutes, *Arumugam* learns that his perceptions of life are as unreal as wisps of smoke and understands in the end, that the only truth is the voice of a loving heart.

Imayam discusses how dalit women are sexually harassed by upper caste males and dalit male, the values and estimations given by the patriarchal society upon dalit women and dalit women's profession as a prostitute and how they are isolated from the society. *Dhanabhagyam* lives and sacrifice for the welfare of her child. She has being an example for modernity and civilization. Although she wants to live in a modern world, some inborn moral ethics induced her to attempt suicide for her guilt. The dalits, Imayam described here doesn't give much importance to the social norms. They rub off all the ethical codes which lay upon the human body and they carried new emerging ideas and they freed themselves from the societal entanglements.

Imayam adopted a unique style in his narrative techniques of his novel. In his novel, he first narrates the present situation and suddenly moves on to the past things with the



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Dr. V. Peruvalluthi has been appointed as Professor and Head in the Department of English of Thiruvalluvar University in the year 2013. Subsequently he has been elevated to the post of Dean (CDC) of Thiruvalluvar University in the same year.

At present Prof. Dr. V. Peruvalluthi has taken up additional charges of Registrar (in charge), Finance officer, The Director of Physical Education and Research Academic Co-ordinator. He has put in more than three decades of Teaching and Research experiences at various institutions. The scholarship of Prof. Dr. V. Peruvalluthi is quite evident from the research articles as he published in the journals of National and International repute. Further he has enormously participated, presented and delivered lectures at National and International Conferences, Seminars and Workshops. He has produced Ph.D., and M.Phil., scholars. Despite his administrative work, he is busy engaged with Research activities. The areas of interest include British Literature, American Literature, Comparative Literature, Cultural Studies, and English Language Teaching.



Dr. K. Ravichandran, Associate Professor of English at Thiruvalluvar University, Tamilnadu is a prolific writer and an ardent researcher. He began his Teaching career at Annamalai University in the year 2002. Then he joined as Associate Professor at Thiruvalluvar University in 2013. He

has put in 15 years of teaching and research experiences as on date. Moreover, he has delivered many a lectures at various educational forums. His areas of Research include Indian Writing in English, Subaltern Studies and African-American Literature. He has been supervising pre-doctoral and doctoral research for about 15 years. He has published three books and presented/published articles at the journals of National and International repute. He is the recipient of Dr. Ambedkar's Fellowship Award-2008, conferred by Bharatiya Dalit Sahitya Akademi, New Delhi. And Prof. Dr. K. Ravichandran also serves as academic Council Member at Thiruvalluvar University and Sacred Heart College Tirupattur, Tamil Nadu.

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