



CHADALAWADA RAMANAMMA ENGINEERING COLLEGE (AUTONOMOUS)

Approved by AICTE, New Delhi & Affiliated to JNTUA, Anantapur, A.P
Accredited by NAAC with "A" Grade, An ISO 9001 - 2015 Certified Institution

3.4.4: LIST OF BOOKS AND CHAPTERS IN EDITED VOLUMES / BOOKS PUBLISHED, AND PAPERS IN NATIONAL/INTERNATIONAL CONFERENCE-PROCEEDINGS YEAR WISE

(2017 - 22)

Academic Year	2021-22	2020-21	2019-20	2018-19	2017-18	Total
No. of Books, Chapters and Conferences	19	25	33	17	8	102




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Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI



CHADALAWADA RAMANAMMA ENGINEERING COLLEGE

(AUTONOMOUS)

Chadalawada Nagar, Renigunta Road, Tirupati – 517 506
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An ISO 9001:2015 Certified Institution

LIST OF BOOKS AND CHAPTERS IN EDITED VOLUMES / BOOKS PUBLISHED, AND PAPERS IN NATIONAL/INTERNATIONAL CONFERENCE-PROCEEDINGS YEAR WISE

Academic Year :2021-22

SL No.	Name of the teacher	Title of the book/chapters published	Title of the paper	Title of the proceedings of the conference	Year of publication	ISBN/ISSN number of the proceeding	Name of the publisher
1	Dr. N. Vikram	Internet of Things: a Real Time Applications (Book)			2021	ISBN: 9788195386222	
2	Dr. N. Vikram	Android application: remote ticket booking system (Book Chapter 16)			2021	ISBN: 9788195386222	
3	Dr. M. Hemalatha		Detection and Comparative Analysis of Liver Disease Using Machine Learning Models	International Multidisciplinary Conference – 2021	31 st Oct, 2021	ISBN: 978-93-91535-12-4	
4	Dr. P. Krishna Murthy		Identification of Vehicle Number Plate Using Adaptive Technique	International Conference on Innovations in Electronics, Electrical & Communication Technologies	12 th - 13 th Nov, 2021		
5	Dr. P. Krishna Murthy		A Novel Approach to Increase the Accuracy of Accident Alert System Using GPS and GSM	International Conference on Innovations in Electronics, Electrical & Communication Technologies	12 th - 13 th Nov, 2021		Burton
6	Dr. P. Krishna Murthy		Adaptive Technique for Improving the Efficiency of Automatic Watering for Plants	International Conference on Innovations in Electronics, Electrical & Communication Technologies	12 th - 13 th Nov, 2021		DIRECTOR Chadalawada Ramanamma Engineering College (AUTONOMOUS) TIRUPATI
7	Dr. P. Krishna Murthy		A Novel Design of a compact planar patch Antenna for ultra wide band applications	International Conference on Innovations in Electronics, Electrical & Communication Technologies	12 th - 13 th Nov, 2021	ISBN: 978-93-5473-424-3	
8	Dr. P. Krishna Murthy		Identification of Vehicle Number Plate Using	International Conference on Innovations in Electronics,	12 th - 13 th Nov, 2021		



			Adaptive Technique	Electrical & Communication Technologies			
9	Dr. P. Krishna Murthy		Data Acquisition system using Run time reconfigurable technique based on Embedded System	Emerging trends in Engineering and Technology	2021		
10	Dr.A.Pulla Reddy		Data Acquisition system using Run time reconfigurable technique based on Embedded System	Emerging trends in Engineering and Technology	2021		
11	D.Ramesh Reddy		A Novel Design of a compact planar patch Antenna for ultra wide band applications	International Conference on Innovations in Electronics, Electrical & Communication Technologies	12 th - 13 th Nov, 2021	ISBN: 978-93-5473-424-3	
12	G.Kavya Sree		A Novel Design of a compact planar patch Antenna for ultra wide band applications	International Conference on Innovations in Electronics, Electrical & Communication Technologies	12 th - 13 th Nov, 2021	ISBN: 978-93-5473-424-3	
13	K.Ram Charan		Adaptive Technique for Improving the Efficiency of Automatic Watering for Plants	International Conference on Innovations in Electronics, Electrical & Communication Technologies	12 th - 13 th Nov, 2021	ISBN: 978-93-5473-424-3	
14	K.Swathi		Adaptive Technique for Improving the Efficiency of Automatic Watering for Plants	International Conference on Innovations in Electronics, Electrical & Communication Technologies	12 th - 13 th Nov, 2021	ISBN: 978-93-5473-424-3	
15	K.Sharief		Adaptive Technique for Improving the Efficiency of Automatic Watering for Plants	International Conference on Innovations in Electronics, Electrical & Communication Technologies	12 th - 13 th Nov, 2021	ISBN: 978-93-5473-424-3	
16	G.Sreedhar		A New approach to improve the protection of smart crop system	International Conference on Innovations in Electronics, Electrical & Communication Technologies	12 th - 13 th Nov, 2021	ISBN: 978-93-5473-424-3	
17	B.Sushma		A Novel Approach to Increase the Accuracy of Accident Alert System Using GPS and GSM	International Conference on Innovations in Electronics, Electrical & Communication Technologies	12 th - 13 th Nov, 2021	ISBN: 978-93-5473-424-3	
18	Hennare Kalyani		Identification of Vehicle Number Plate Using Adaptive Technique	International Conference on Innovations in Electronics, Electrical & Communication Technologies	12 th - 13 th Nov, 2021	ISBN: 978-93-5473-424-3	
19	K.B.Deekshitha		A Novel Design of a compact planar patch	International Conference on Innovations in Electronics,	12 th - 13 th Nov, 2021	ISBN: 978-93-5473-	



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		Antenna for ultra wide band applications	Electrical & Communication Technologies			424-3	
Academic Year :2020-21							
Sl. No.	Name of the teacher	Title of the book/chapters published	Title of the paper	Title of the proceedings of the conference	Year of publication	ISBN/ISSN number of the proceeding	Name of the publisher
1	Dr. T. Sunil Kumar Reddy	Investigation on Deep Learning Approach for Big Data: Applications and Challenges (Book chapter 56)			2020		IGI Publisher of timely Knowledge DOI: 10.4018/978-1-7998-0414-7.ch056
2	Dr. P. Krishna Murthy	"Data Acquisition System Using Run Time Reconfigurable Technique Based on Embedded System". (Book chapter 2)			October, 2020		Emerging Trends in Engineering and Technology
3	Dr. A. Pulla Reddy	"A Novel Approach of Image DeNoising using Implementation of the DWT and HWT Techniques. (Book chapter 6)			October, 2020		Emerging Trends in Engineering and Technology
4	Dr. A. Pulla Reddy	Economic Operations in Thermal Power Plant (Book chapter 9)			2021		AkiNik Publications
5	Dr. Y. Murali Mohan Babu	"Transform Techniques for Radar Image Analysis".			43070	ISBN-13: 978-93-86258-87-8	VSRD Academic Publisher
6	Dr. Y. Murali Mohan Babu	"Digital Image Compression Techniques".			43435	ISBN-13: 978-81-93901-90-8	A to Z Publications
7	Dr. Y. Murali Mohan Babu	"Classification Models in Satellite Image Processing". (Book Chapter)			November-2020.	ISBN-13: 978-93-82829-34-8	Spectrum Publications
8	K.Munivara Prasad	An ensemble framework for flow based application layer BDOS attack detection using data		ICT Analysis and Applications	2020		




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		mining techniques (Book Chapter)					
9	J.Nagamuneiah	An ensemble framework for flow based application layer BDOS attack detection using data mining techniques (Book Chapter)		ICT Analysis and Applications	2020		
10	Dr. T Sunil kumar reddy	Deep learning and neural networks: concepts, methodologies, tools, and applications (Book chapter)			2020		Igi global publishers
11	S. M. Jameel Basha	Lecture Notes in Mechanical Engineering	Comparison of Thermo-Physical and Tribological Characteristics of Nanolubricant	Emerging Trends in Mechanical Engineering Select Proceedings of ICETME 2018	2020	2195-4356	Springer Nature Singapore Pte Ltd
12	S. M. Jameel Basha	Lecture Notes in Mechanical Engineering	Adopting SDR Fluctuations to Non-premixed Turbulent Combustion by Varying Swirl Ratio	Emerging Trends in Mechanical Engineering Select Proceedings of ICETME 2019	2020	2195-4357	Springer Nature Singapore Pte Ltd
13	Dr. M. Hemalatha		Embedded systems and Industrial Automation	International Virtual conference on "Embedded systems and Industrial Automation"	11 th - 13 th June, 2020		
14	Mrs. M. Hemalatha		Water feature extraction, enhancement and change detection of Multi Temporal Satellite Images using MNDWI2-PCA	IOP Conference Series: Material Sciences and Engineering	04th - 05th Sept, 2020		
15	M.Hemalatha		Water feature extraction, enhancement and change detection of Multi Temporal Satellite Images using MNDWI2-PCA	IOP Conference Series: Materials Science and Engineering	4th -5th Sep, 2020		
16	Ms. Kuraganti Santhi / Ram mohan reddy		A Novel Approach for Heart Disease Prediction based on Risk Factors using Machine Learning	International Conference on Computational and Bio Engineering	Dec-20		
17	A.Rama Mohan Reddy		Secure SDLC using security patterns 2.0	Fifth International Conference on Information and Communication	23-24 April 2021		



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				Technology for Intelligent Systems			
18	A.Rama Mohan Reddy		A modified Bat optimization algorithm segment MRI's of brain sub regions for early detection of Alzheimer's Disease	International Conference on Computational and Bio Engineering (CBE'20) Springer	4th-5th December 2020		
19	A.Rama Mohan Reddy		A Novel Approach for Heart Disease Prediction based on Risk Factors using Machine Learning	International Conference on Computational and Bio Engineering (CBE'20) Springer	4th-5th December 2020		
20	K Sekar		Ovarian cyst detection using Ultrasound images based on segmentation techniques	The First Online International conference on "continuity, consistency and Innovation in Applied Sciences and Humanities"	13th and 14th August 2020		
21	N. Chaitanya Kumar		Generation of Multiple session keys using Diffie-Hellman Technique	International Conference on Computational and Bio Engineering (CBE'20) Springer	13th and 14th August 2020		
22	Dr. M. Neeraja		Customer Satisfaction in select online food delivery applications (with reference to Telangana and Andhra Pradesh)	Intentional conference on Tourism, Travel and Hospitality Management - 2020	30-31 October 2020		
23	Dr. G. Anupama		Understanding and Awareness of Glass Ceiling Among Management Students	International Conference on Glass Ceiling: Issues and Challenges on Women Career Development in Educational Institutions	25-27 March 2021		
24	Dr. M. Neeraja		Designing Global Destinations: Trends & Strategic Imperatives	Intentional conference on Tourism, Travel and Hospitality Management - 2020	30-31 October 2020		
25	Dr. M. Neeraja		Community-based eco Tourism Initiatives - A case study of Eco Tourism Destination Talakona in Andhra Pradesh	Intentional conference on Tourism, Travel and Hospitality Management - 2020	30-31 October 2020		Bunee
Academic Year :2019-20							
Sl. No.	Name of the teacher	Title of the book/chapter published	Title of the paper	Title of the proceedings of the conference	Year of publication	ISBN/ISSN number of the proceeding	Director Name of the publisher



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Name of the publisher

1	P. Krishna Kishore	Artificial intelligence (Book)			2019		Vsrd academic publishing Isbn-13: 978-93-87610-42-2 Code no. : vsrdapcsit-161
2	Dr. S. Thulasee krishna	Selection of a best model for effective results based on examination (Book)			2019		Lambert academic publishing Isbn:978-613-8-3851-3 Springer, ingapore,75-80
3	Dr. N. Vikram	Secured architecture for internet of things-enabled personalized health care systems (Book chapter 7)			2019		Springer, ingapore,75-80
4	Dr. S. Thulasee krishna	Traditional new approach for 'r' language (Book)			2020	ISBN-13 :978-93-87610-49-1	Vsrd academic publishing
5	Dr. A. Rama Mohan Reddy	Smart farming by using internet of things (Book)			2019	ISBN:9788194289500	Snb ingenious publishers, smart nuts and bolts groups.
6	Mr. R. Ravindraiah	An Instinctive method for Lesion Detection in Diabetic Retinopathy Images using a Novel Spatial possibilities C means clustering in kernel space		Springer International Conference on Intelligent Computing and Smart Communication Technologies (ICST-2019)	26th - 27th July 2019		
7	R. Ravindraiah	Evaluation of conventional methods for the detection of lesions in Diabetic Retinopathy Images: A Review		Intelligent computing and smart communication technologies	26th - 27th July 2019		
8	B. Chandrabab Naik	Time Series analysis of water feature extraction using water index techniques from landsat remote sensing images		Third International Conference on L-SMAC (IOT in Social Mobile, Analytics and Cloud)	2019		<i>B. Naik</i>
9	S. Mallikarjunaiah	Grid Interconnecting Solar Generation System using Transformer less cascade seven level Inverter		National conference on "Sensor Networks, Internet of Things (IOT) & Internet of Everything	17th-19th Oct 2019		DIRECTOR Chodavada Ramunamma Engineering College (AUTONOMOUS) TIRUPATI



10	K. Raju		Fractional order AN79S (FoanF9S) method for maximum power plant in a Pv system	National conference on "Sensor Networks, Internet of Things (IOT) & Internet of Everything	17th-19th Oct 2019		
11	Y. Hari Krishna		A Novel approach to restrain voltage and power balance using cascaded H-bridge convertor instigated for solid state transformer	National conference on "Sensor Networks, Internet of Things (IOT) & Internet of Everything	17th-19th Oct 2019		
12	k. Raju		Extenuation of voltage variations and Load levelling in wind DG micro grid with back propagation based fuzzy logic controller	National conference on "Sensor Networks, Internet of Things (IOT) & Internet of Everything	17th-19th Oct 2019		
13	S Jareena		AC to DC convertor with high power factor & High efficiently	National conference on "Sensor Networks, Internet of Things (IOT) & Internet of Everything	17th-19th Oct 2019		
14	Dr. J. Srinu Naick		Algorithm for optional power flow solution of microgrid	National conference on "Sensor Networks, Internet of Things (IOT) & Internet of Everything	17th-19th Oct 2019		
15	Dr. J. Srinu Naick		Control and operation of a DC grid- based wind power generation system in a application of Artificial "Intelligence techniques in polycystic ovarian syndrome diagnosis	National conference on "Sensor Networks, Internet of Things (IOT) & Internet of Everything	17th-19th Oct 2019		
16	V. Samba Siva		An Efficient Apache spark frame work analysis for engineering students information behaviour	National conference on "Sensor Networks, Internet of Things (IOT) & Internet of Everything	17th-19th Oct 2019		
17	G.Dilli Rani		Design and implementation of high speed hybrid adder with reverse carry propagate adder	#REF!	17th-19th Oct 2019		
18	Dr. V. Thrimurthulu		A Novel reversible decoder for design and synthesis of combinational circuit	National conference on "Sensor Networks, Internet of Things (IOT) & Internet of Everything	17th-19th Oct 2019		
19	M. Adisheshaiah		High speed packet classification using XNOR BV	National conference on "Sensor Networks, Internet of Things (IOT) & Internet of	17th-19th Oct 2019		




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				Everything			
20	V.Thrimuthulu		Design and Implementation of High speed hybrid adder with reverse carry propagate adder	National conference on "Sensor Networks, Internet of Things (IOT) & Internet of Everything	17th-19th Oct 2019		
21	V.Thrimuthulu		High speed approximation multiplier for high speed and area efficient applications	National conference on "Sensor Networks, Internet of Things (IOT) & Internet of Everything	17th-19th Oct 2019		
22	P.Krishna Murthy		Reduce power flip flop design based on signal feed through scheme	National conference on "Sensor Networks, Internet of Things (IOT) & Internet of Everything	17th-19th Oct 2019		
23	B. Viajaya		An Efficient Apache spark frame work analysis for engineering students information behaviour	National conference on "Sensor Networks, Internet of Things (IOT) & Internet of Everything	17th-19th Oct 2019		
24	A.N. Sreedhar		An Efficient Apache spark frame work analysis for engineering students information behaviour	National conference on "Sensor Networks, Internet of Things (IOT) & Internet of Everything	17th-19th Oct 2019		
25	N. Hanuma Naick		Exentuation of voltage variations and load levelling in wind-Dg microgrid with back propagation base fuzzy logic controller	National conference on "Sensor Networks, Internet of Things (IOT) & Internet of Everything	17th-19th Oct 2019		
26	Dr.Neeraja		Role of Intellectual Property Rights in Enhancing Global Competitiveness of the Tourism & Hospitality Industry	Intellectual Property Rights Challenges & Issues in India	2019	ISSN: 978-81-933256-7-4	Pithapuram Govt College, Kakinada,A.P.
27	B. Dhananjaya		Exploring the elements of Employees Motivation in Hospitality Industry	International Online Conference on Contemporary Issues in Business Management	2019		Amaravathi Research Academy
28	Dr.Neeraja		Perception on MOOC among Management Graduates : A Survey Study	New Vistas in Services Marketing	2019	ISBN: 978-93-88808-05-7	Paramount Publishing House, New Delhi,
29	P.Krishna Kishore	 DRIFAC: Drift identification in traffic flow streams for DDOS attack defence through			2019		 DIRECTOR Chedalawada Ramanamma Engineering College (AUTONOMOUS) TIRUPATI

		ensemble classifier (Book Chapter)					
30	K.Munivara Prasad	DITFAC: Drift identification in traffic flow streams for DDOS attack defence through ensemble classifier (Book Chapter)			2019		
31	V.Samba Siva	DITFAC: Drift identification in traffic flow streams for DDOS attack defence through ensemble classifier (Book Chapter)		Computing and Network Sustainability (Book)	2019		
32	M.Sreenivasulu	DITFAC: Drift identification in traffic flow streams for DDOS attack defence through ensemble classifier (Book Chapter)		Computing and Network Sustainability (Book)	2019		
33	A.Rama Mohan Reddy	Secured architecture for internet of things-enabled personalized health care systems (Book chapter 7)			2019		Springer, ingapore,75-80

Academic Year :2018-19

Sl. No.	Name of the teacher	Title of the book/chapters published	Title of the paper	Title of the proceedings of the conference	Year of publication	ISBN/ISSN number of the proceeding	Name of the publisher
1	Dr.C.Chandra Sekhar	Book	Digital image compression techniques		Dec, 2018	ISBN-13 : 978-81-93901-90-8	A to Z Publications
2	A Rama Mohan Reddy	Book	Fuzzy and Poka YOKE in SDLC		Sep, 2018	ISBN-13:978-3-330-02257-7	Lambert Academic Publishing
3	K.Munivara Prasad		DITFAC: Drift identification in traffic flow streams for DDOS attack defence through ensemble classifier	International Conference on ICT for Sustainable development	30th Aug 2018		
4	V.Samba Siva		DITFAC: Drift identification	International Conference on	30th Aug		




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			in traffic flow streams for DDOS attack defence through ensemble classifier	ICT for Sustainable development	2018		
5	P.Krishna Kishore		DITFAC: Drift identification in traffic flow streams for DDOS attack defence through ensemble classifier	International Conference on ICT for Sustainable development	30th Aug 2018		
6	M.Sreenivasulu		DITFAC: Drift identification in traffic flow streams for DDOS attack defence through ensemble classifier	International Conference on ICT for Sustainable development	30th Aug 2018		
7	K.Rama Mohan Reddy		Cryptography technique for mining association rule in distributed data bases with privacy preserving	2nd International Conference on Computing, Communications and Data Engineering	Feb-19		
8	Mrs. G. Komala Yadav		Image Quality assessment using SIDWT Algorithm	National Conference on New Frontiers of Engineering, Sciences , Management and Humanities	12 th - 13th October, 2018	978-93-87793-49-1	
9	Mrs. T. Vedavathi	Conference on Industry 4.0		Confederation of Indian Industry	17-18 December, 2018		
10	D.Shoba Rani		Deep learning based dynamic tasks of loading in mobile cloudlet environments	Evolutionary Intelligence		ISSN:1864-5909	
11	Dr. M. Neeraja		Big data analytics - a Key to better operations and Consumers Efficiency	International Conference on Emerging trends in Business and Commerce	6th October 2018	ISSN: 978-93-85101-21-2	
12	Dr. M. Neeraja		Impact of Digital Marketing on the Banking Sector(A Survey on select banks in Tirupathi)	National Seminar on Emerging Trends in Digital marketing Challenges and opportunities	22nd and 23rd March 2019	ISBN: 978-81-935990-3-7	
13	Dr. M. Neeraja		Big data technology trends in banking and Finance	International Conference on Emerging trends in Business and Commerce	6th October 2018	ISSN: 978-93-85101-21-2	
14	Dr. M. Neeraja		Customer Satisfaction in select online food delivery applications (with reference to Telangana and Andhra Pradesh)	The Indian Management Researcher	July-December 2018	ISSN: 2349-2090	 DIRECTOR
15	B. Dhananjaya		HRM in the Digital Age: Consequences and Performance	International Conference on Emerging Trends in Business and Commerce 2018	06-Oct-18		 Chodulavanda Ramanamma Engineering College (AUTONOMOUS) TIRUPATI Narayana Engineering College, Nellore

16	B. Dhananjaya		A Study on GST Impact on India Economy	International Conference on Essential Management Skills in the age of Disruption	19-Jan-19		SV University, Tirupati
17	Dr. M. Neeraja		Customer Satisfaction in Bank Services in Digital Economy (Comparative Study of Home loan advances of Indian Bank, Andhra Bank & SBI in Hyderabad)	Digitalisation of Banking Operations : Outreach, Challenges And Impact on Economy	2019	ISBN: 978-93-5351-550-8	Department of Commerce, Alpha Arts And Science College, Porur, Chennai.

Academic Year :2017-18

SL No.	Name of the teacher	Title of the book/chapters published	Title of the paper	Title of the proceedings of the conference	Year of publication	ISBN/ISSN number of the proceeding	Name of the publisher
1	Sekhar Koneti	Book		Computer Organization and Architecture	Jul-05	ISBN:978-3-659-57119-0	Lambert Academic Publishing
2	Sekhar Koneti	Book		Programming in C and Data Structures		ISBN:978-3-659-57119-0	Lambert Academic Publishing
3	Dr. K. Soundararajan		Enhancement of localized routing using CDPSO in WSN	2018 IEEE Conference on Signal Processing and Communication Engineering Systems	04-05 January 2018	ISBN: 978-1-5386-2369-5	
4	N. Chaitanya Kumar		Proactive Secret sharing for long lived MANETS using elliptic curve cryptography	International Conference on Inventive computing and informatics	2017	ISBN: 978-1-5386-4031-9	
5	N. Chaitanya Kumar		Multi-stage Multi-secret sharing scheme for hierarchical access structure	International Conference on Computing Communication and Automation	2017	ISBN:978-1-5090-7471-7	
6	D.Shoba Rani		Design of Thermometer code to binary encoder using systematic cell design methodology	International conference on Advanced Communication systems	Oct-17		
7	Dr. M. Neeraja		Green growth in India : Policies and Initiatives	2nd International Conference on Green Development in Tropical Regions -2017	26-28th July 2017		<i>bonna</i>
8	Dr. M. Neeraja		Sustaining growth through responsible Tourism with special reference to the Telangana	A national Interdisciplinary referred research journal dedicated to Global Dialogue	17th Sep, 2017	ISSN: 2395-4612	DIRECTOR Chadala Wada Ramanna Engineering College (AUTONOMOUS) TIRUPATI



A BOOK ABOUT

INTERNET OF THINGS: A REAL TIME APPLICATIONS

VIVEKANANDA
REDDY D
AND
VIKRAM
NEERUGATTI



A BOOK ABOUT
INTERNET OF
THINGS : A REAL
TIME
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AND
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ANDROID APPLICATION: REMOTE TICKET BOOKING

V.K. Palani

B.Tech Student Dept. of CSE, ASIT, CUDJH

Dr. N. Vikram Neerajali

Professor Dept. of CSE, ASIT, CUDJH

ABSTRACT

Android applications is getting huge demand in almost every field. A complete set of software for mobile devices such as tablet, smartphones, smartphones etc. It is currently used in various devices such as television etc. It has applications in fields like education, medicine, and textiles. The current project is a canteen automation system, which user to register online, read and select the food from menu card by just selecting the food that user want to have, by using link and results after selecting the food from the menu card will display near the chef/shop keeper who is going to cook the food. This is a combination of android as well as web application.

By using this application the work of the waiter is reduced and his work is nullified. The benefit of this is that if there is a rush in the canteen, there will be chances that the waiters will be unavailable and the user can order food to the chef online by using this app. The user will have a user account by using which they can login in to the system. This applies to the regular user of the canteen.



INTRODUCTION

Systems are based on pen papers record, cash, manual calculation and manual and manual record keeping at credits which in today's time in an attempt to operate a business, we aim to operate a business, we aim to do this task by creating a web application for managing the canteen menu and orders. Many people don't have much time to spend in canteen by just there and waiting for the waiter to take their order. Many customers visit the canteen in their respective office and need so they have limited to eat and return to their respective office. This software helps them to save time and order food wherever they are without calling the waiter again and again. In a college canteen, there can be a long queue available, so in the lunch time or the peak hour of the canteen the waiter and students need to wait for a long time in the queue to place their order. At some time it gets difficult for the canteen to manage and sometime it results in some error in the payment and exchanging of

receipts. An invoice is generated in the kitchen too when the order is being told to the waiter. To make the work easy we decided to make an application in which the user can create an account and then they can order their food through the application within the campus and pay through the app or can also pay with cash. At the time of payment, an invoice will be generated which will be unique for different orders. This will help the student to collect their order from the counter. From the application, the user will be kept update on their order status and when they get a notification that their order is prepared, then students go to collect their order because they do not need to wait in a long queue to collect their order. History of all the orders will be maintained for the student as well as the canteen on their

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This Certificate is acknowledges and honours

Dr. M. Hemalatha

for presenting and publishing his/her paper on

Detection and Comparative Analysis of Liver Disease Using Machine Learning Models

on the occasion of

International Multidisciplinary Conference -2021

31st October 2021

Organised by:

UNIVERSAL GROUP OF INSTITUTIONS, Lalru, Chandigarh, Punjab

in collaboration with:

IARDO and Conference world



Dr. Jitinder Singh
Universal Group of Institution

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Manjama

Dr. A. K. Sharma
IARDO Director

DIRECTOR

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**INTERNATIONAL CONFERENCE ON
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 & COMMUNICATION TECHNOLOGIES
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2021-22

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ISBN: 978-93-5473-424-3



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 Gudur, Nellore Dt., A.P.



CERTIFICATE

This is to certify that Prof./Dr./Mr./Miss/Mrs. *Dr. P. Krishna Murthy*.....
 From *Chadalawada Ramanamma Engineering College* presented / participated a paper entitled
A Novel Design of a Compact Planar Patch in an International Conference on
Antenna for ultra wide Band Applications
Electronics, Electrical and Communication Technologies (ICIEECT-21) on 12th & 13th November, 2021
 organized by the Department of Electronics and Communication Engineering & Electrical and Electronics
 Engineering, Audisankara College of Engineering & Technology, Gudur, Andhra Pradesh, India.


Dr. A. Mohan
 Director


Dr. R. Lokanadham
 Principal


Prof. K. Dhanunjaya
 Convener & HOD ECE


Prof. J. Suresh
 HOD EEE


Dr. A. Immanuel
 Convener



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CERTIFICATE

This is to certify that Prof./Dr./Mr./Miss/Mrs. *Dugumanni... Ramesh.. Reddy.....*
 From *Chadalawada..ramanamma..Engineering College* presented / participated a paper entitled
A.. Novel.. Design.. of.. a.. Compact.. planar.. patch in an **International Conference on**
Antenna for ultra wide Band Applications
Electronics, Electrical and Communication Technologies (ICIEECT-21) on 12th & 13th November, 2021
 organized by the Department of Electronics and Communication Engineering & Electrical and Electronics
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Chapter 56

Investigation on Deep Learning Approach for Big Data: Applications and Challenges

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ABSTRACT

In recent years, big data analytics is the major research area where the researchers are focused. Complex structures are trained at each level to simplify the data abstractions. Deep learning algorithms are one of the promising researches for automation of complex data extraction from large data sets. Deep learning mechanisms produce better results in machine learning, such as computer vision, improved classification modelling, probabilistic models of data samples, and invariant data sets. The challenges handled by the big data are fast information retrieval, semantic indexing, extracting complex patterns, and data tagging. Some investigations are concentrated on integration of deep learning approaches with big data analytics which pose some severe challenges like scalability, high dimensionality, data streaming, and distributed computing. Finally, the chapter concludes by posing some questions to develop the future work in semantic indexing, active learning, semi-supervised learning, domain adaptation modelling, data sampling, and data abstractions.



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Economic Operation in Thermal Power Plants

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Economic Operation in Thermal Power Plants

Dr. M. Laxmidevi Ramanaiah, Dr. M. Ramprasad Reddy, Dr. A. Pulla Reddy and
Dr. A.V. Sudhakara Reddy

Abstract

A modern power system is invariably supplied by a number of power plants. The purpose of economic operation of power system is to reduce the operating cost of generation to the minimum. The total generator operating cost includes fuel, labour and maintenance costs. For simplicity fuel cost is the only one considered to be variable. The fuel cost is meaningful in case of thermal and nuclear power plants. Hydro plants have negligible operating cost, but are required to operate under constraint of availability of water for hydro generation in a given period of time. It is, however, unrealistic to neglect transmission losses particularly when long distance transmission of power is involved.

Keywords: economic operation, thermal power plants, generator cost, operating cost and fuel cost

I. Introduction

The optimal operation with consideration of

- Economic operation.
- System security.
- Emissions at certain fossil-fuel (Thermal/coal-fired/steam plants) power plants.
- Optimal releases of water at hydro generation.

The main aim of economic dispatch problem is to minimize the total cost of generating real power (production cost) at various stations while, satisfying the loads and the losses in the transmission links. For simplicity, we consider the presence of thermal plants only in this chapter.

II. Economic operation

The economic operation can be divided into two parts.



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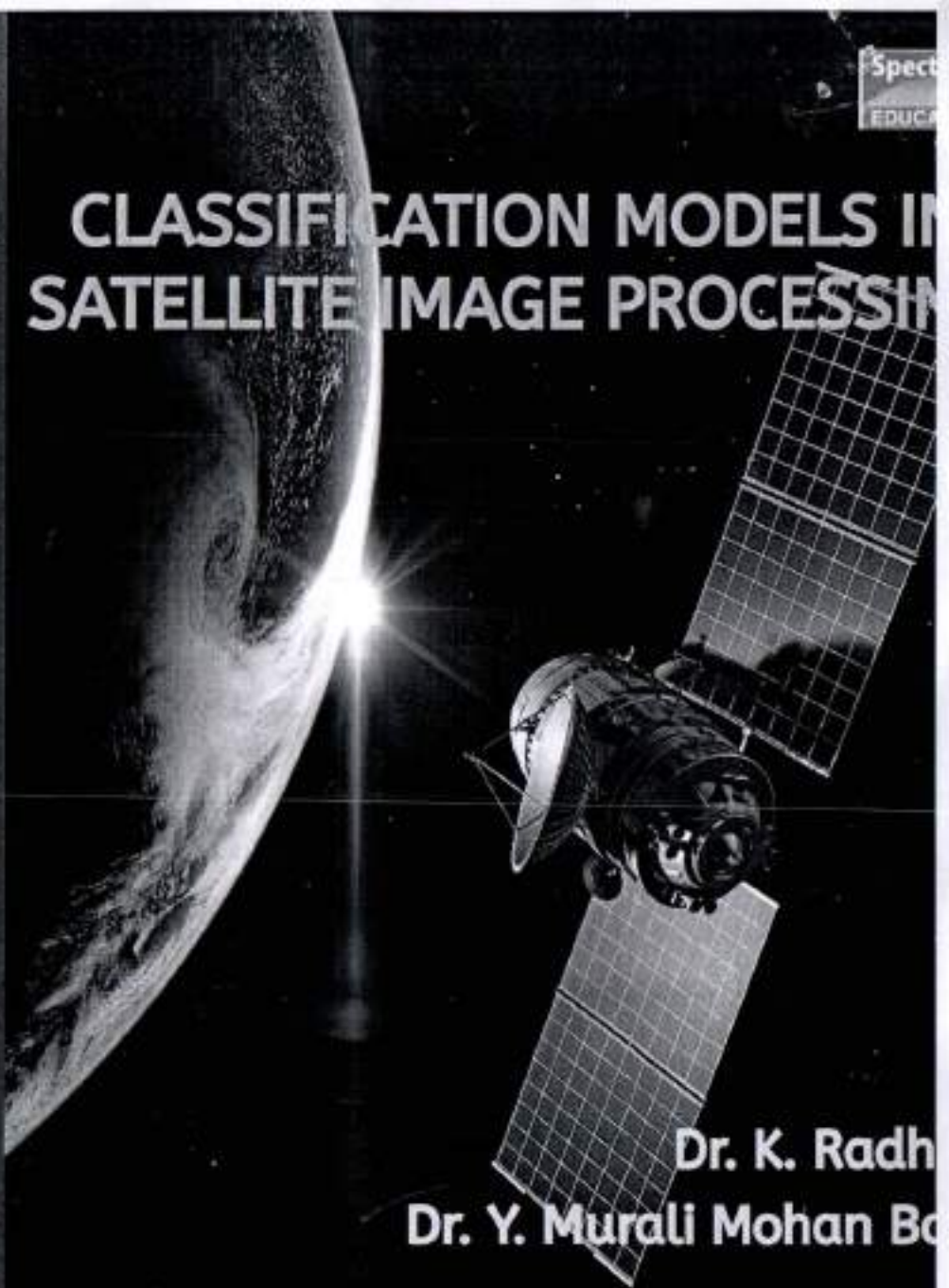
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An ensemble framework for flow-based application layer DDoS attack detection using data mining techniques

Authors **K Munivara Prasad**, V Siva, J Nagamuneiah, Siddaiah Nelaballi

Publication date 2020

Book ICT Analysis and Applications

Pages 9-19

Publisher Springer, Singapore

Description The large number of requests flow exceeds the capacity of the target server drives to denial in the service to the legitimate users. Due to the server's oversized prospective, the flooding requests increase the server capacity generated by the malicious attackers from distributed environment defining the distributed denial of service attack. From the contemporary literature it is evident that applying the knowledge gained from the findings of previous request distributions is a suitable strategy to block the DDoS attacks. This strategy's key limitation is frisking to detect the new patterns of request flooding excavated by the attacker at the server from the previous knowledge on earlier attack distributions patterns. Therefore, this paper explains a novel trained ensemble classifier with new features which reflects in the traffic flow properties, so that, the traffic flow shows distribution diversity from each other which is ...

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Emerging Trends in Mechanical Engineering pp 153–164

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Comparison of Thermo-Physical and Tribological Characteristics of Nanolubricant

[Md Mansoor Ahamed](#) , [S. M. Jameel Basha](#) & [B. Durga Prasad](#)

Conference paper | [First Online: 12 December 2019](#)

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Abstract

This paper presents the comparison of characterization and investigation on viscosity, thermal conductivity and friction coefficient of Silicon carbide (SiC), Silicon nitride (Si₃N₄) and Magnesium oxide (MgO) nanolubricants for refrigeration applications. The characterization of nanoparticles was done by SEM, XRD and EDS tests. Nanopolyester oil samples were prepared by two-step method for different volume concentrations of 0.15, 0.3, 0.45 and 0.6%. Viscosity of the



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nanolubricants was measured for different volume concentration and at various temperatures. The experimental results found that the viscosity and thermal conductivity of the Si_3N_4 nanolubricant is higher than the other nanolubricants. Also it is found that the coefficient of friction of Si_3N_4 nanolubricant is lower than the other nanolubricants. The viscosity of the Si_3N_4 nanolubricant has been enhanced by 41.6, 33.9, 31.2, and 37.1% at 0.6% volume concentration for 20, 30, 40, and 50 °C with respect to polyolester (POE) oil. The result displayed that the thermal conductivity of Si_3N_4 nanolubricant was enhanced by 42.4, 46, 45.6, & 41.4% corresponding to 0.15, 0.3, 0.45 and 0.6% volume concentration with respect to pure POE oil. This paper also emphasis on the comparison of tribological behavior of the nanolubricant and pure POE oil. It is found that the coefficient of friction was reduced by 1.3 times lower at optimal concentration of 0.6%. These conclusions suggest that Si_3N_4 nanoparticle as additives in the base POE oil can improve the lubrication and thermal properties of base lubricant and can be used for the refrigeration application.

Keywords

Nanoparticles **Nanolubricant**
Characterization **Thermo-physical properties**
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Emerging Trends in Mechanical Engineering pp 399–413

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Adopting SDR Fluctuations to Non-premixed Turbulent Combustion by Varying Swirl Ratio

[S. M. Jameel Basha](#) 

Conference paper | [First Online: 12 December 2019](#)

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Abstract

It is known that the CI engine combustion process is complex phenomenon. The rapid progress has been made in multidimensional modeling of in-cylinder processes by suitable combination of assumptions and equations that can analyze the critical features. The CFD models gives us the complete understanding of the in-cylinder processes, reduce the cost of the expensive and time consuming experimental techniques. FLUENT is one of the versatile tools which is used for modeling of in-cylinder flows as well as exhaust



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pollutants. FLUENT has a set of assumptions and restriction. One such restriction is that the effect of Scalar Dissipation Rate Fluctuations (SDRF) is ignored. In the present paper an attempt has been made for the inclusion of SDRF by writing the User Defined Function and appending the same to the existing code FLUENT. Three swirl ratios 2, 3 and 4 with spherical bowl have been chosen and runs are made for these swirl ratios with and without SDRF. The simulated results are compared with the experimental results for validation.

Keywords

SDRF **Flamelet equation** **Swirl ratio**

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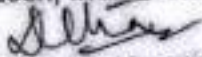
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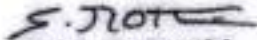
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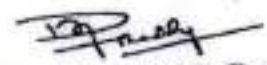
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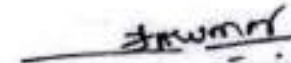
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Generation of Multiple session keys using Diffie-Hellman technique

Dr. V.V.S.S.S. Balaram, K. Vansee Krishna and N. Chaitanya Kumar

Department of Information Technology, Sree Nidhi Institute of Science & Technology, Ghatkesar, Hyderabad, India.
(vadrevu_kinnera@yahoo.com, vams97@yahoo.com and n_chaitu@yahoo.com)

Abstract

Diffie-Hellman (DH) is a well-known cryptographic algorithm used for secure key exchange. The first appearance of DH was in 1976 [1]. The algorithm allows two users to exchange a symmetric secret key through an insecure wired or wireless channel and without any prior secrets. This key can then be used to encrypt subsequent communications using a symmetric key cipher. Although Diffie-Hellman key agreement itself is an anonymous (non-authenticated) key-agreement protocol, it provides the basis for a variety of authenticated protocols, and is used to provide perfect forward secrecy in Transport Layer Security's ephemeral modes. In our paper we introduced a modified version of DH, where the participants uses two public keys instead of one key and in turn generate 15 shared keys. Of these 4 keys are called base keys, because they are used to generate the other 11 keys called extended keys.

Keywords: Session Key, Public Key Cryptography, Diffie- Hellman Key Exchange Algorithm

1. Introduction

Diffie Hellman (DH) allows two users to exchange a symmetric secret key through an insecure wired or wireless channel and without any prior secrets. DH is widely used in many cryptographic protocols such as Secure Socket Layer (SSL), Secure Shell (SSH) and IP Security (IPSec). Modifying the security of DH means improving the security of the protocols that use DH.

Besides, because of the rapid increase of popularity of remote communication through unsecured channels such as the Internet, the use of cryptographic protocols to secure them increases. Even though there are many efficient cryptosystems currently available, their reliability depends on the keys being used, because the messages are easily interpreted when opponents know the secret values. Although this problem is overcome by changing the cryptographic keys frequently, the question is how it can be done through public communication channels. In fact, the ability to dynamically and publicly establish a session key for secured communication is a big challenge in cryptography. Although public key algorithms prior to communication may be used for establishing the session keys [2], it requires additional key exchange operations (KEOs) per session and increases overhead. In such conditions, if multiple shared keys are exchanged securely at a time with comparatively fewer KEOs and if a key or even multiple keys are used in the same session, it not only eases the establishment of session keys, but

also reduces the key exchange overhead significantly. The same is implemented in the first part of the present work, where the generation of multiple two-party shared keys is proposed. The method is mainly an extension of the Diffie-Hellman (DH) public key-exchanging technique [2], where instead of one, it requires the exchange of two pairs of public keys. It is seen that the proposed technique generates 15 DH-style keys with 12 exponent operations and 22 additions. On the other hand, the original DH technique can generate a single shared key through the exchange of one pair of public keys and the execution of four exponentiation operations (no multiplication is required).

Since the key distribution is the main factor of the secure group communication, it has received a lot of attention recently, and a number of efficient techniques have been proposed. Now some research works on DH and its extensions are considered.

Although the DH was proposed for a cyclic group of order n , it also works in commutative rings [3] and Galois field $GF(2^m)$ [4]. A variant of DH, where the modulus is a composite number, is also studied in [4]. On the basis of DH, ElGamal has developed an encryption and digital signature algorithm [5]. Hughes [6] made a different variation of DH, where he shows that the shared key can be computed before any interaction, that is, one party prior to contacting others can encrypt a message using a secret key and send it to different people, and



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Paper Abstracts




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Customer Satisfaction in Select online Food Delivery Applications (With reference to Telangana and Andhra Pradesh Region)

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The ascend of digital technology reshapes the market of many industries including restaurant industry. The restaurant industry and mobile app technology is a match made in heaven. Mobile app technology changed the dynamics of the restaurant industry. Whereas other industries can benefit from the integration of mobile, restaurant industry handles customer needs and requirements within an app. These mobile apps provide a tracking system where the Customers become more acquainted with each progression of delivering.

In this study, the research made an attempt to investigate customer's insight and satisfaction towards click on food feature in Telangana and Andhra Pradesh region. Also, to find most popular online food delivery app in this region and comprehend as to how have mobile app technology of digital system played a significant role in the restaurant industry. The study reported responses of 487 customers who are already using the online food delivery apps. To achieve the objectives, data from different areas of Telangana and Andhra Pradesh region have been collected by using a mixed approach of both quantitative and qualitative method.

The investigation took the form of structured questionnaire and semi structured interviews with selected customers. Tested hypothesis by adopting appropriate statistical techniques like descriptive analysis, chi square. The results revealed that majority respondents use Swiggy. Doorsteps & convenience are the most encouraging factors on online food ordering. The study highlights that most preferred meal is dinner. Ordering food online is easy and convenient; customers are substantially influenced when they acknowledged cash backs and offers. Customers ordering decision gets pretentious by the experience of self, opinions and experience of friends/family and deliberations on online media. Likely to recommend and prefer to buy in their preferred food delivery apps was opted by majority respondents.

Keywords: Mobile apps technology, Customer perception, Customer satisfaction.



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Community –Based Eco Tourism Initiatives - A Case Study of Eco Tourism Destination Talakona in Andra Pradesh

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Community based tourism (CBT) is tourism in which local residents (often rural, poor and economically marginalized) invite tourists to visit their communities with the provision of overnight accommodation. The residents earn income as land managers, entrepreneurs, service and produce providers and employees. At least part of tourism income is set aside for projects which provide benefits to the community as a whole. However, for most of the times, this concept of the bottom up planning is usually given in the top-down manner because of lack of awareness on the part of communities. The communities participated from planning to execution level are often catalyzed by external forces such as non-governmental organizations' encouragement to the local communities, and there has been little exploration of what communities think of their roles in tourism development. This paper studies the same aspect in Talakona which is located in Nerabailu village, Yerravaripalem Mandal of Chittoor District, Andhra Pradesh, India. The focus of the research is to understand different aspects of community based tourism, make suitable plans and strategies and implement community based tourism projects in talakona and to conduct market research and identify places and activities of touristic interest e. g. local music, dance, cuisine, art and craft, specialty agriculture, festivals and events etc. and use them in sustainable manner for tourism development. Finally, the paper concludes with Promoting the development of the CBT in Andhra Pradesh to improve CBT product offer and improving community-based tourism enterprises (CBTE's) tourism knowledge and know-how.

Keywords: Community based tourism, Eco tourism, Cultural Heritage, community involvement.

Tourism Entrepreneurship to Generate Employment in India through Skill Development

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This paper is a review article based on the concept of 'tourism entrepreneurship'. The article is specific to Indian settings. Analyzing the review of research literature, it was identified that less number of studies are available in Indian context on the concept of tourism entrepreneurship and skill development producing employment in India specific to the tourism industry. In the present scenario, Indian government is focusing on the skill development to tackle the problem of unemployment in the country; as 'Skill India' initiative has been taken up by the government. This strengthens the relevance of the study to the present scenario of Indian tourism industry. Thus, in short the present study is discussing the different avenues of employment generation through tourism entrepreneurship and skill development for the Indian tourism industry.

Keywords: Tourism, entrepreneurship, employment, skills, development

Tourism, Travel & Hospitality Management-2020, October 30-31, 2020



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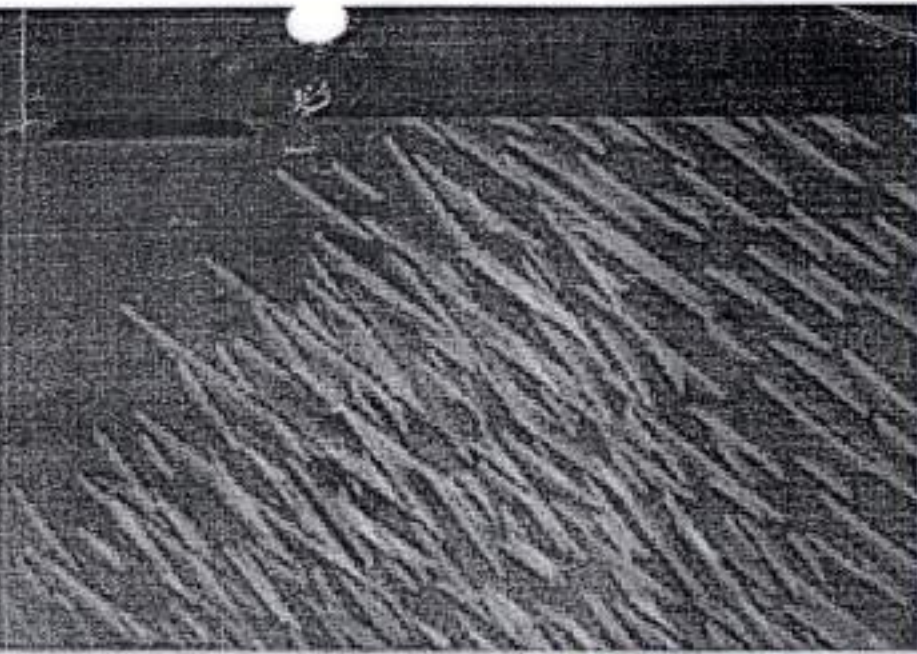


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The aim of obtaining a confident software development process along with the selected traditional model towards the work. Based on a comparison of the software process models, we identified several factors affecting the process model selection for a project. As a result in this study I proposed new concept of Best Selection for Model for Best Result, which depicts a diagram chart to choose the best model. A new model called CSDM introduced which would cater the needs of the old model. The new model is simple and easy to understand. We have not given a chance one can move easily from one task to another. That is, incorporate new requirements. "Student Assessment System" is developed using CSDM which subject to change in requirements to incorporate in the next trial build. This is very useful for developer to develop new projects.

Selection of a Best Model



Soma Thulasi Krishna
Santanu Sreekanth



Dr. S. THULASEE KRISHNA has obtained Ph.D. Degree from Rayalaseema University, Kurnool. Presently he is working as a Professor in the Department of Computer Science and Engineering in Chaitanya Charalavada Ramaswami Engineering College Tirupati, Andhra Pradesh, India. He has published 14 research papers both in national and international journals.

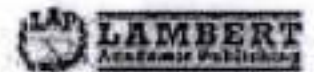
Selection of a best model for effective results based on examination

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Chapter 7

Secured Architecture for Internet of Things-Enabled Personalized Healthcare Systems



Vikram Neerugatti and **A. Rama Mohan Reddy**

Abstract The Internet of Things (IoT) is the emerging area. This technology is made to connect any object around us to the Internet with the unique IP, and these connected objects can be communicated each other remotely as per the user's convenience. It has applications in all most all the fields like industries, factories, environment, agriculture, transport, education, healthcare, energy, and retail. IoT leads to the new technologies like big data and cyber-physical systems. Connecting any object, from anywhere at any time, is not simple. It has various challenges like discovery, scalability, software complexity, interoperability, fault tolerance, security, and privacy. One of the major challenges is security. Due to the weak links used to connect the things to the Internet leads to many security issues in different levels of the IoT. This paper presents the various security issues and novel security architecture for the IoT-enabled personalized healthcare systems.

Keywords IoT · Internet of Things · Security · Architecture · Healthcare

7.1 Introduction

Since a decade, Internet of Things is evolving. The enabling technologies of IoT are the cloud computing, wireless sensor networks, communication protocols, big data analytics, embedded systems, etc. Internet of Things is a truly ubiquitous computing, i.e., anywhere, anytime for every one computing said by Weiser [1]. The phrase "Internet of Things" is first coined by the Kevin Ashton in 1999 at MIT. Nowadays, the mobile phones and data rate become very cheaper, the wireless communication devices becoming smaller and cheaper and the processing capabilities is more. So the smart phone becomes the mediator for things, Internet, and people [2]. It has vast application domains like transportation and logistics, healthcare, smart environments, Personal, Social and Futuristic applications of IOT [3]. The major relevant scenarios for this domain are shown in Fig. 7.1.

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Time Series Analysis of Water Feature Extraction using Water Index Techniques from Landsat Remote Sensing Images

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Abstract—Recently, the remote sensing data is widely used for the extraction of water body from the satellite images. The accuracy assessment of the extracted water features from the satellite images is highly correlated with the real time data. Spatiotemporal changes in nagarjunasagar reservoir, located in India in a period of 2014 to 2019 time series and analysis using multi temporal Landsat-8 (OLI) images. Unsupervised classification (Isodata) and spectral water indexing methods, including NDVI, NDWI, MNDWI and AWEI were evaluated for surface water body extraction and change detection. The overall accuracy and kappa coefficients were evaluated for water indexing methods. The statistical parameters of the accuracy results show that AWEI achieved 96.26% overall accuracy, 0.94 kappa coefficient and MNDWI achieved 96.94% overall accuracy, 0.95 kappa coefficient. The AWEI and MNDWI water indexes performed better results as compared to other water indexing methods.

Keywords— Landsat-8 (OLI) sensors, water index, NDVI, NDWI, MNDWI and AWEI.

I. INTRODUCTION

Water bodies have been identified through remote sensing techniques or field surveying [1]. The remote sensing techniques has proved to be more advantageous when compared with ordinary field surveying methods in terms of cost saving and minimal time. Multispectral remote sensing techniques applied in various applications of extraction and characterization features like, water extraction, lakes, reservoirs, rivers, sea ice, extent of snow and icebergs [3]. Many investigates are continuously going on more precise identification [4] and prominence water body extraction from remote detected data and as results new and upgraded methods have established.

The most frequently used multispectral data in water body extraction [2] are Landsat imagery and available at a free of cost from USGS portal, as a results its widely used in mapping of water body extraction applications [5]. The spectral bands, especially the NIR and SWIR bands of the Landsat provide some information about water. The water indexing methods, including, NDVI, NDWI [6,7,8],

MNDWI [9] and AWEI focused on the thresholds to separate water body and non water bodies. The threshold value separates the water body from other LULC and it may causes an error in classification.

The paper focuses on evaluation of time series analysis of the water body extraction over a region from Landsat-8 (OLI) data in the year 2014 to 2019 [12-15]. A high spatial determination can reduce the number outlier pixels and provide a noticeable boundary. The proposed method improves the accuracy of urban surface water boundary compared to the existing the methods [10]. Unsupervised classification (ISODATA) technique is used to enhance the imagery and perform the accuracy assessment to calculate the overall accuracy and kappa coefficient.

II. COLLECTION OF DATA SET

The reservoir nagarjuna sagar was put up across the river Krishna, which is located in Nalgonda district in the state of Telangana . The geographical area of nagarjuna sagar latitude 16°34'55.60"N to 16°56'44.95"N and longitude 78°24'13.97"E to 78°47'06.07"E as shown in fig.1. This reservoir is the second biggest water reservoir in India, it also acts as hydroelectric project, used as drinking water in urban areas and the irrigation. The required study data collected from USGS portal with free of cost. The high resolution multitemporal Landsat-8 (OLI) with cloud free data only downloaded to further research from 2014-2019. The Landsat-8 (OLI) data have 30m spatial resolution with different bands as shown in (Table. I).

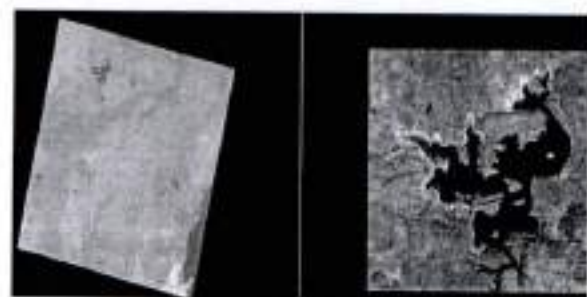


Fig. 1. Location of nagarjuna sagar reservoir (Landsat-8 (OLI) January, 2019).

TABLE I
CHARACTERISTICS OF LANDSAT-8 (OLI) WITH ITS STIPULATION.
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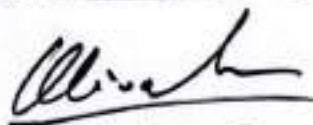
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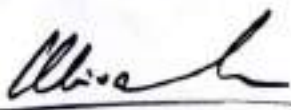
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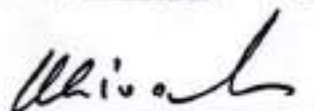


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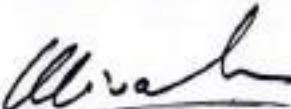


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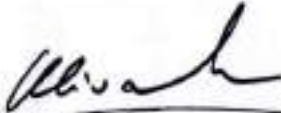


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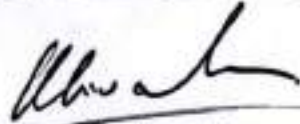


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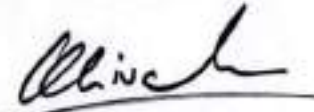
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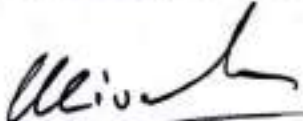



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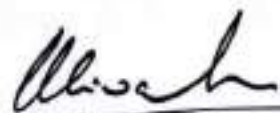
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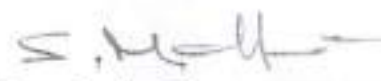
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Dr. Neeraj
Professor, Dept of Management
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Introduction:

In today's globally competitive environment, intellectual property has placed itself on a pedestal in the context of economic growth and is becoming increasingly important. Intellectual Property (IP) is the fuel that powers the engine of prosperity, fostering invention and innovation. The increasing significance of intangible assets in the global economy is forcing business organizations to actively manage their IP as a key driver for building and sustaining their competitive advantage and achieving superior performance (As shown in Table-1).

Table-1: Trends in IPR in India

Application	2012-13	2013-14	2014-15	2015-16	2016-17
Patent	43,674	42,951	42,763	46,904	45,444
Design	8,337	8,533	9,327	11,108	10,211
Trade mark	1,94,216	2,00,005	2,10,501	2,83,060	278,378
Geographical Indication	24	75	47	14	32
Copyrights	Copyright administration shifted to DIPP/CGPDTM in 2016-17			14812	16617
Semiconductor Integrated Layout Designs (SCILD)	SCILD administration shifted to DIPP/CGPDTM in 2016-17			-	-
Total	2,46,251	2,51,564	2,62,638	3,55,898	3,50,467

Trends in last five years in respect of filing of intellectual property applications, IP is now being used not only as a tool to protect creativity and generate revenue but also as a strategic alliances for socio-economic and technological growth.

Accordingly, in order to foster the protection of innovations and creativity, the Intellectual Property Office under the Ministry of Commerce and Industry is dedicated to mobilize the resources for such technological advancement for the economic development of the country.

India has nearly 4500 start-ups and is growing at 10-12 % Year on Year and is 3rd largest start-up base globally. There are 140+ incubators and accelerators mainly categorized as Govt. Independent, Academic and Govt. supported. 70% of India's start-ups are concentrated in Bay



NCR-Delhi and Mumbai. These states have their own Innovation and start-up missions and the cities like Bangalore, Mumbai, Delhi and Chennai emerging as start-up hubs of the country (Table-2).

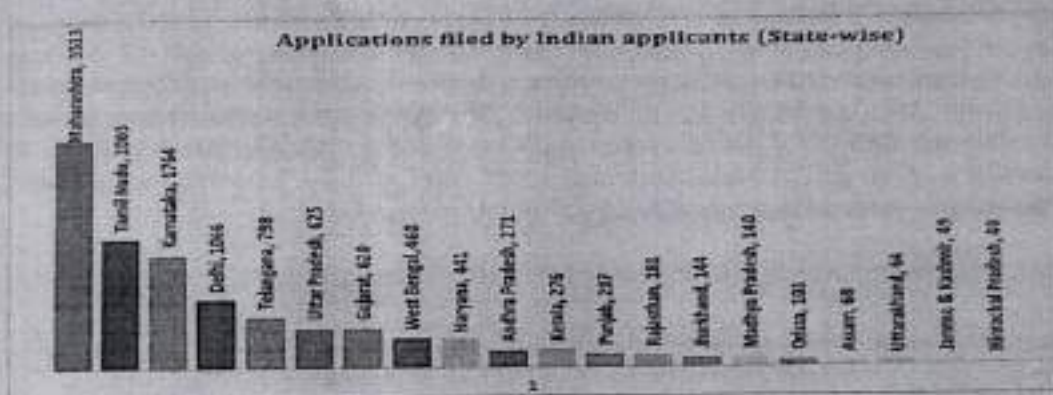
Table-2: Types of Incubators and Accelerators in India - 2017

Types of Incubators and Accelerators
Corporate (9%)
Independent (32%)
Academic (51%)
Govt. Supported (8%)

Source: IPR 2018: Innovation and Protection in India 2017

The generation of IP largely takes place at the State level through small, medium and big industries, academic institutions and individuals. Most States in India (as shown in Graph -1) have not yet evolved their IP strategies and ecosystems in terms of effective facilitating of services among MSMEs and start-ups, creating awareness, conducting training programmes, systems for utilization of IPR etc.

Graph-1: Applications filed by Indian applicants (State-wise)



States need to maximize the benefits from their intellectual property by stimulating higher levels of innovation through a judicious system of rewards, ensuring timely and effective legal protection for IPRs and leveraging strategic alliances for enhancing the value of the intellectual property created in the State.

Andhra Pradesh Innovation Ecosystem

“Andhra Pradesh’s vision is to be amongst India’s three best states by 2022, and a developed state by 2029” - N Chandrababu Naidu, Chief Minister of Andhra Pradesh. After the Andhra Pradesh State bifurcation in 2014, the state has highly prioritized Industrial growth, Information technology, Electronics and e-Governance as a means to promote manufacturing, create employment and build a conducive innovation ecosystem.



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Perception on Mooc among Management Graduates: A Survey Study

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Abstract

Massive Open Online Courses (MOOCs) are a recent expansion in higher education that experienced rapid development and achieved substantial attention from a broad range of learners. According to data gathered by Class Central, around 23 million new learners signed up for their first MOOC in 2017. That's similar than the 23 million new learners who registered for a MOOC in 2016. The total number of MOOC learners is now 81 million. The total potential revenue just from students currently enrolled in these online degree programs offered on the major MOOC platforms now exceeds \$65 million.

In this connection, the present study aims to explore the learner's perception, experiences and satisfaction on massive open online courses among management students of various institutions who enrolled in MOOCs. A web based survey (Google forms) and an interview (A structured questionnaire with a Set of 15 questions) was used to investigate learner's perception & Experiences on MOOCs. The study has focused on both Management graduates and post graduates. The researcher used both quantitative and qualitative method as a research design. In addition, the study focuses to identify the significant effect of course content and instructor interaction on perceived effectiveness. Finally, the study discusses the future directions in MOOCs' development

Keywords: MOOCs, Coursera, Edx, Percieved effectiveness, online course

Introduction

Massive Open Online Courses have emerged as a popular mechanism for independent learners to acquire new knowledge and skills. MOOCs are designed to reach as many students, formal and informal as possible. Massive Open Online Courses (MOOCs) hold the potential to open up educational opportunities to a global audience. However, evidence suggests that only a small proportion of MOOC participants go on to complete their courses and relatively little is understood about the MOOC design and implementation factors that influence retention.



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DITFEC: Drift Identification in Traffic-Flow Streams for DDoS Attack Defense Through Ensemble Classifier

Authors **K Munivara Prasad**, V Samba Siva, **P Krishna Kishore**, M Sreenivasulu

Publication date 2019

Book Computing and Network Sustainability

Pages 299-307

Publisher Springer, Singapore

Description The overwhelming of the request flow beyond the target server capacity leads to the service denial to the legitimate users. Because of the server's oversized potential, the act of flooding requests beyond the server capacity is carried by the malicious attackers from distributed environment called distributed denial-of-service attack. Hence, applying the knowledge gained from the findings of previous request distributions research works seems to be the suitable strategy to cease the DDOS attacks. This strategy indispensable limitation is skipping to detect the new patterns of request flooding dug by the attacker at the server from the previous knowledge on earlier attack distribution patterns. Therefore, this paper endeavors to contribute on how to handle the limitation by proposing a novel-trained ensemble classifier with new features which reflects in the traffic-flow properties, so that the traffic-flow tuple shows ...

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DITFEC: Drift Identification in Traffic-Flow Streams for DDoS Attack Defense Through Ensemble Classifier

Authors K. Munivara Prasad, V. Samba Siva, P. Krishna Kishore, M. Sreenivasulu

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Chapter 7 Secured Architecture for Internet of Things-Enabled Personalized Healthcare Systems



Vikram Neerugatti and A. Rama Mohan Reddy

Abstract The Internet of Things (IoT) is the emerging area. This technology is made to connect any object around us to the Internet with the unique IP, and these connected objects can be communicated each other remotely as per the user's convenience. It has applications in all most all the fields like industries, factories, environment, agriculture, transport, education, healthcare, energy, and retail. IoT leads to the new technologies like big data and cyber-physical systems. Connecting any object, from anywhere at any time, is not simple. It has various challenges like discovery, scalability, software complexity, interoperability, fault tolerance, security, and privacy. One of the major challenges is security. Due to the weak links used to connect the things to the Internet leads to many security issues in different levels of the IoT. This paper presents the various security issues and novel security architecture for the IoT-enabled personalized healthcare systems.

Keywords IoT · Internet of Things · Security · Architecture · Healthcare

7.1 Introduction

Since a decade, Internet of Things is evolving. The enabling technologies of IoT are the cloud computing, wireless sensor networks, communication protocols, big data analytics, embedded systems, etc. Internet of Things is a truly ubiquitous computing, i.e., anywhere, anytime for every one computing said by Weiser [1]. The phrase "Internet of Things" is first coined by the Kevin Ashton in 1999 at MIT. Nowadays, the mobile phones and data rate become very cheaper, the wireless communication devices becoming smaller and cheaper and the processing capabilities is more. So the smart phone becomes the mediator for things, Internet, and people [2]. It has vast application domains like transportation and logistics, healthcare, smart environments, Personal, Social and Futuristic applications of IOT [3]. The major relevant scenarios for this domain are shown in Fig. 7.1.

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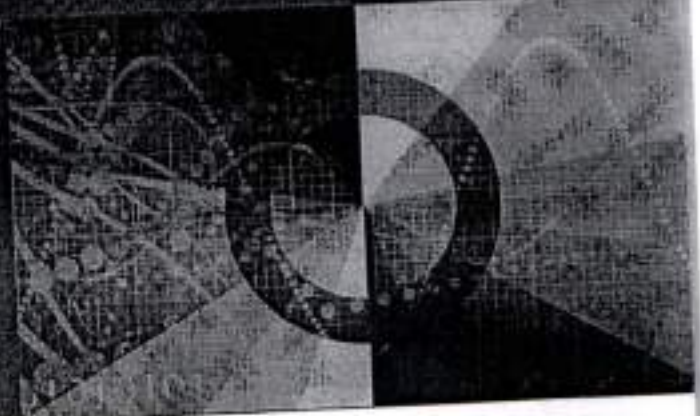
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A software process model is an abstract representation of a process. The articulation of these models in the twentieth century has brought unexampled changes to the field of software engineering. An alternative model is proposed for large scale software development for products and services with high quality expectations. It would be based on meeting up front in the Software Architecture of the system, designing with software product monitoring and alerting logic in place, end-to-end user experience, experimentation and quality of service using PY principles. The basic idea behind developing this model is to have high quality software products and services that can be developed faster, cheaper and in a better way. It can scale with demand in various scenarios, can deliver an outstanding user experience and be future safe for SDLC bottlenecks which arise in both conventional and the agile software development. Accordingly, product monitoring phase is important to deliver the quality products which require more alerts about the progress and status of the works in day by day. This alert can be done by leveraging the principles of Poka-Yoke which can make alarm to the management.

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K. K. Baseer
A. Rama Mohan Reddy
C. Shoba Bindu



Dr. K. K. Baseer obtained his B.Tech & M.Tech Degrees in CSE from JNTUHT, Hyderabad and Ph.D. from JNTUA University, Ananthaparama, India. At present working as an Associate Professor in dept. of IT, Sree Vidyanikethan Engineering College, Tirupati, India. His areas of interest include Deep Learning, Data Science & SE.

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A Monitoring Tool for Mistake-Proofing Quality Software



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BIG DATA ANALYTICS -A KEY TO BETTER OPERATIONS & CONSUMERS EFFICIENCY

With special reference to Banking services and financial institutions in India

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ABSTRACT

Banks and other financial institutions are under similar pressure to sustain their competitiveness. The aftermath of 2008 financial crisis has unleashed a new wave of stricter and newer regulations, intense competition, and lower customer trust for the banking and financial industry. With such myriad of challenges, banks are under great pressure to adapt and evolve. Considering immense and growing ocean of data from multiple sources including web and social media, big data analytics has evolved as one of the key technology trends to look out for.

This paper provides an insight on the concept of big data analytics, its significance in banking operations and consumer efficiency. The study explores how big data analytics is being successfully used in Indian banking services. The data used is secondary data from a bank while the analysis is of primary nature. This study reveals the best practices being adopted by banks in India to enhance their services to the customers by using Big Data Analytics.

Key words: *Big Data, Banking services, Customer patronage, cyber security, financial institutions.*




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INTRODUCTION

Big data analytics is the process of examining large and varied data sets -- i.e., big data -- to uncover hidden patterns, unknown correlations, market trends, customer preferences and other useful information that can help organizations make more-informed business decisions.

Big Data has been making all the headlines over the last few years, but it is just one data trend in a long line that appear every decade. The difference between these data analytic developments is blurred at best, but the underlying technology does appear to give some distinction between the old and the new trends. The technology behind Big Data is undeniably Hadoop, a software ecosystem designed to allow the query and statistical analysis of large and semi-structured data. Hadoop's ability and flexibility to handle increasingly complex data has unlocked new opportunities for extracting value and business insights from potentially massive amounts of organizational internal data.

Big Data has also allowed the possibility to enrich this internal data with equally vast amounts of semi-structured external data from public sources and social media, maximizing data value potential even further (As shown in pic-1). Combining and processing all this internal and external data was simply not possible using traditional management and analytical tools before the age of Big Data.



Source: www.bigdata-mindspace.com



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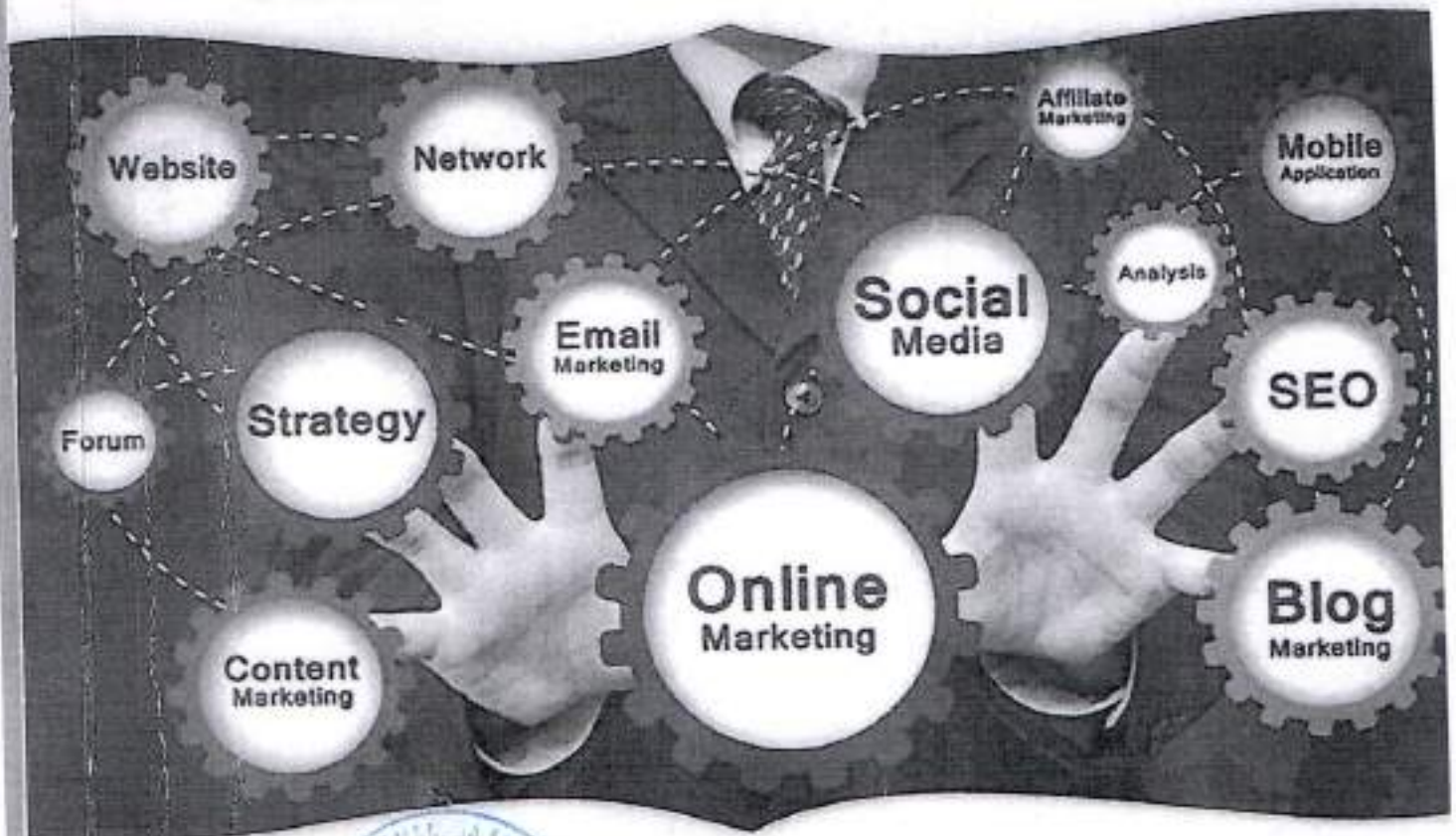


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EMERGING TRENDS IN DIGITAL MARKETING

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IMPACT OF DIGITAL MARKETING ON THE BANKING SECTOR (A survey on select banks in Tirupathi)

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Abstract

Digital marketing is the use of digital channels to promote products and services, build brand preference and interactively engage with customers in a mutual satisfactory manner. Banking operations and services have become omnipresent through digital marketing and its platforms. Lately, Indian Banking Industry has shown a tremendous growth on Social Media platforms like Face book, Twitter, and YouTube, Google plus, Linked In etc. The Banking sector in India has proven that it's not just about opening saving bank accounts, credit cards, investments, wealth management, and mutual funds, insurance and so on. With the increasing growth in Social Media in India, banks have understood that likes, tweets, shares do matter to engage with the young generation.

The study sought to investigate the adoption of digital marketing among banks in India & identifying the major challenges in adoption of digital marketing in Indian banking industry. The study adopted a survey research design on a sample size of 20 commercial banks (Selected commercial banks located in temple town Tirupati, Andhra Pradesh, India) in India. Data was collected by use of questionnaires and interview schedules and the data analyzed by the aid of Statistical Package of Social Scientists Program (SPSS).

Key words: Social media, customer patronage, customer satisfaction, banking services, service delivery

1. INTRODUCTION

Digital marketing is the use of digital channels to promote products and services, build brand preference and interactively engage with customers in a mutual satisfactory manner. Banking operations and services have become present through digital marketing and its platforms. Lately, Indian Banking Industry has shown a tremendous growth on Social Media platforms like Face book, Twitter, and YouTube, Google plus, LinkedIn etc as shown in fig -1.



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BIG DATA TECHNOLOGY TRENDS IN BANKING AND FINANCE

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ABSTRACT

Technology has a lot to play in the evolution of the Banking Industry in the last one to two decades. The service and the way the banks operated have advanced to make life easier for both the customers and the banking professionals. When the Big Data Revolution hit the various industries, the banking industry realized the opportunity avenues associated with it. Financial institutions are making use of Big Data in big ways, from boosting cyber security to reducing customer churn, cultivating customer loyalty, and more through innovative and personalized offerings that make modern banking a highly individualized experience.

Based on an extensive secondary data & interview schedules with financial services professionals, this paper provides an insight on How Big Data shapes banking and other financial services today and how the industry may change in response to Big Data's continuing evolution. The main objective of this paper is to identify what trends are today's financial services professionals tapping into to set themselves apart from their competition? And what role do modern financial services pros see Big Data playing as we move into the future?

Keywords: *Big Data, cyber security, Fintech, blockchain technology, cloud management*



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INTRODUCTION

The banking industry is among many industries which have massive and useful data about their customers but very few banks are utilizing this set of information to enhance the customer experience and using the data information to prevent fraud. The banking and financial industry is very well aware of the fact that if the data can be used effectively they can fulfill the needs of customer accurately. According to research, only 37% of customers agree that banks understand their needs and preferences. Banks have an ocean of informative data but the challenge is how to use that data smartly, shortage of skilled people, unstructured vast data, high cost associated and much more. But gradually banking sector has started applying the Big Data technology in every sector of it and started taking benefits of it.

OBJECTIVES:

1. To analyze how Big Data shapes banking and other financial services today
2. To assess how the industry may change in response to Big Data's continuing evolution.
3. To identify what trends are today's financial services professionals tapping into to set themselves apart from their competition.
4. To identify what role do modern financial services pros see Big Data playing as we move into the future.

RESEARCH METHODOLOGY

The present paper is purely qualitative and conceptual work through both primary and secondary data are used as sources for this paper .Primary data was collected from financial services professionals and bank officers over Andra Pradesh, Karnataka, and Tamilnadu through interviews and observation method. The secondary data was collected through online journals, magazines etc.

LITERATURE REVIEW

The Banking & Financial Services Landscape Today



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IMPACT OF BIG DATA ANALYTICS ON BANKING SECTOR

With special reference to Banks in India

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ABSTRACT

Nowadays, banking industry is generating huge amount of data. The Indian Banking sector is undergoing huge reforms post-demonetization and digitalization; they have a huge burden of managing of data every day. A majority of the banks have failed to utilize the information within their own databases. The evolution called Big data analytics possessing beneficial characteristics like volume, velocity and variety of data. It will improve quality by strengthening risk management, optimizing HR by providing new insights for fraud detection, customer segmentation and monitoring client behavior in real time. Previously, most banks have failed to utilize this data. However, nowadays, banks have starts using this data to reach their main objectives of marketing. By using this data, many secrets can be revealed like money movements, thefts, disasters.

With an extensive secondary data, and interview schedules with bank professionals , The present paper provides an insight how big data analytics is being used in banking sector to find out spending patterns of customer, sentiment and feedback analysis etc.

Key words: Data analytics, Customer patronage, cyber security, client behavior



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Customer Satisfaction in Select Online Food Delivery Applications (With Reference to Telangana and Andhra Pradesh Region)

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Abstract

In the context of restaurant industry, employing a greater number of youth and providing opportunities for the growth of customer's satisfaction would be interesting to explore the status of online food delivery app services in India. This is an industry, where customers are satisfying their food needs and requirements within a mobile app. What is it that keeps customers from making it to the top rung of authority in the country's Restaurant business?

In view of the above observations and comments, the researcher made an attempt to investigate customer's insight and satisfaction towards click on food feature in Telangana and Andhra Pradesh region. Also, to find most popular online food delivery app in this region and comprehend as to how have mobile app technology of digital system played a significant role in the restaurant industry. The study reported responses of 487 customers who are already using the online food delivery apps. To achieve the objectives, data from different areas of Telangana and Andhra Pradesh region have been collected by using a mixed approach of both quantitative and qualitative method.

The investigation took the form of structured questionnaire and semi structured interviews with selected customers. Tested hypothesis by adopting appropriate statistical techniques like descriptive analysis, chi square. The results revealed that majority respondents use Swiggy, Doorsteps & convenience are the most encouraging factors on online food ordering. The study highlights that most preferred meal is dinner. Ordering food online is easy and convenient; customers are substantially influenced when they acknowledged cash backs and offers. Customers ordering decision gets pretentious by the experience of self, opinions and experience of friends/family and deliberations on online media. Likely to recommend and prefer to buy in their preferred food delivery apps was opted by majority respondents.

Keywords: Mobile apps technology, Customer perception, Customer satisfaction.





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CUSTOMER SATISFACTION IN BANK SERVICES IN DIGITAL ECONOMY (COMPARATIVE STUDY OF HOME LOAN ADVANCES OF INDIAN BANK, ANDHRA BANK & SBI IN HYDERABAD)

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1. INTRODUCTION

Customer satisfaction is an important theoretical as well as practical issue for most marketers and consumer researchers. Customer satisfaction can be considered the essence of success in today's highly competitive world of business. Thus, the significance of customer satisfaction in strategy development for a market oriented and customer focused firm cannot be overstated. Further, customer satisfaction is increasingly becoming a corporate goal as more and more companies strive for quality in their products and services. Satisfaction refers to the buyer's state of being adequately rewarded in a buying situation for the sacrifice he has made. Adequacy of satisfaction is a result of matching actual post-purchase and consumption experience with the expected reward from the brand in terms of its anticipated potential to satisfy the consumer's motives. The concept of satisfaction is one about which there are presently few agreed-upon definitions or approaches to measurement. Hunt has summarized the concept in the following statement.

1.1 IMPORTANCE OF CUSTOMER SATISFACTION

A company would be wise to measure customer satisfaction regularly because one key to customer retention is customer satisfaction. A highly satisfied customer generally stays loyal longer, buys more as the company introduces new products and upgrades existing products, talk favorably to others about the company and its products, pays less attention to competing brands and is less sensitive to price, offers product or service ideas to the company, and costs less to serve than new customers because transactions can become routine².

1.2 FACTORS INFLUENCING CUSTOMER SATISFACTION RATINGS

Customer satisfaction is influenced by a number of factors and accurate measures can not be easily obtained. The factors that influence customer satisfaction ratings are presented in Table-1.1. However, it has been ensured that customer satisfaction services are bench marked, i.e., compared with set standards.

Table - 1.1 Factors influencing Customer Satisfaction Ratings

Factors	Remarks
Response bias	Bias in survey results due to responses being received from only a limited group among the total survey participants
Data collection method	Method used to collect information such as questionnaires, surveys and personal interviews
Question form	Ways a question is phrased, i.e., positively or negatively
Question context	Placement and tone of a question relative to the other questions asked
Timing of the question	The length of time after the purchase date that questions are asked
Social desirability bias	Bias in survey results because of respondents tendencies to provide information they believe is socially appropriate
Mood	Positive mood draws encouraging responses

2. REVIEW OF LITERATURE

Though public sector banks are the biggest employers in the country, very few studies dealing with customer satisfaction in these banks have been undertaken. Among the few studies, most of them are narrow in scope as the studies are confined to one public sector bank or one private sector bank. In fact, in-depth studies on customer satisfaction especially on public sector banks are nil. However, some useful literature is available in various text books and polished theses. Further, a good number of articles published in various academic magazines and journals are available. In this regard, the available literature has been presented hereunder.

CUSTOMER SATISFACTION

Steve Baron and Kim Harris (2003) in their book, "Services Marketing: Text and Cases examined the concept of customer satisfaction from three perspectives-the academics, the practitioners and the customers. He felt that service quality should be regarded as an antecedent to customer satisfaction. He also felt that issues of service quality and customer satisfaction lie at the heart of service marketing and management. Both are seen as desirable output of any service strategy. Srinivasan, (2004) in his book, "Services Marketing (The Indian context) discussed customer satisfaction and the benefits associated for a service firm with satisfied customers. He also dealt with the methods of measuring customer satisfaction improvements in a service firm and the

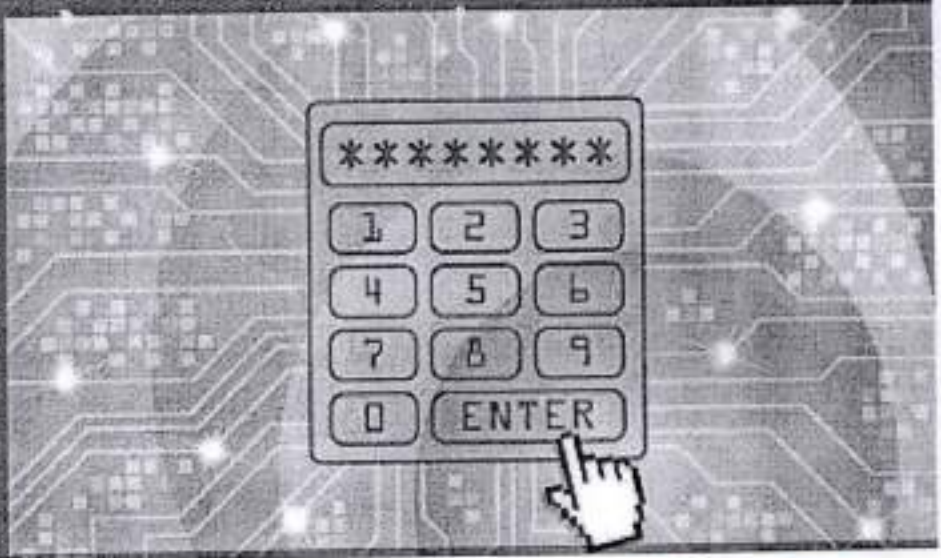


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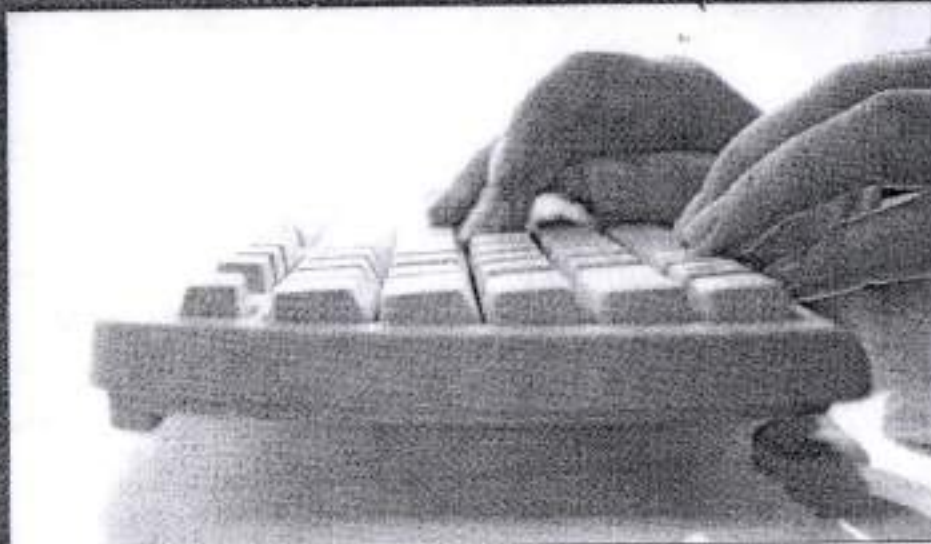


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book gives exposure to run the C programs and to develop the applications. It facilitates the methodology of software development in its applications. This book also provides sample programs to understand the concepts of C and Data Structures in detail. It also consists of a number of exercises for the students to enrich their knowledge in a proactive learning process. This book covers the concepts in the curriculum of various universities in India and abroad. It can also be used by the novice professional to develop their applications in C. At last, this book helps the students to learn the basic concepts related to C and Data Structures and develop various applications, provides an overview of the computer.



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Proactive Secret Sharing For Long Lived MANETs Using Elliptic Curve Cryptography

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Abstract—Since MANETs are infrastructure-less, they heavily use secret sharing techniques to distribute and decentralize the role of a trusted third party, where the MANET secret s is shared among the legitimate nodes using (t, n) threshold secret sharing scheme. For long lived MANETs, the shared secret is periodically updated without changing the MANET secret based on proactive secret sharing using Elliptic Curve Cryptography (ECC). Hence, the adversary trying to learn the secret, needs to gain at-least t partial shares in the same time period. If the time period and the threshold value t are selected properly, proactive verifiable secret sharing can maintain the overall security of the information in long lived MANETs. The conventional cryptographic algorithms are heavy weight, require lot of computation power thus consuming lot of resources. In our proposal we used Elliptic Curve Cryptography to verify commitments as it requires smaller keys compared to existing proactive secret sharing techniques and makes it useful for MANETs, which are formed of resource constraint devices.

Index Terms—Mobile ad-hoc network, bi-variate polynomial, proactive, secret sharing technique, threshold cryptography.

1 INTRODUCTION

MANET known as Mobile ad hoc Network is a continuously self-configuring, dynamic and infrastructure-less network of mobile nodes connected wirelessly [1] [2]. These mobile nodes roam freely, every node has its own range of signal communication, other nodes within the range can interact and exchange messages. New nodes join and some other nodes may leave or some nodes fail to connect as they move out of the MANET network range [3]. The nodes in MANET are energy constrained i.e., nodes are battery powered devices. There are many security threats to MANETs such as denial of service, eavesdropping, interception and routing attacks [4] [5]. Securing the nodes as well as the network communication in MANETs is very challenging. Many techniques that employ secret sharing concepts have been proposed to secure MANETs. But these techniques seem to be weak for long lived [6] MANETs, as the attacker would have enough time to corrupt enough nodes. This allows the attacker to gain secret information for the lifetime of the MANETs. So, in order to secure long lived MANETs, the secrets that the nodes possess should be renewed. This can be achieved using proactive secret sharing techniques.

In Our Proposal, we have employed proactive secret sharing techniques to enhance security for long lived MANETs using Elliptic curve cryptography, which solves the problem of computational overhead.

1.1 Secret Sharing Technique and Threshold Cryptography

Blakely [7] and Shamir [8] are the first to introduce secret sharing techniques. In general a secret sharing scheme consists a dealer and a set $U = \{u_1, u_2, u_3, \dots, u_n\}$ of n users.

The dealer has a secret s , a share s_i of which is privately distributed to user $u_i, 1 \leq i \leq n$. A valid subset u (for $u \subset U$) of t number of users holding valid shares can reconstruct the secret s . The t is referred to as the threshold number and (t, n) is referred to as the threshold access structure [8].

In threshold cryptography, the private key s is shared among n participants using a (t, n) threshold access structure with the help of a secret sharing scheme, with each participant u_i having a partial share s_i [9]. For example, in public key cryptography (PKC), let the public key be pk and the corresponding private key be s . If a user has encrypted a message using the public key pk then to decrypt the message, at-least t out of n nodes are required to decrypt the message.

1.2 Elliptic Curve Cryptography [10]

Elliptic curve cryptosystems were first proposed independently by Neil Koblitz and Victor Miller in 1985. Elliptic curve cryptography (ECC) is a public key encryption technique that is based on the algebraic structure of elliptic curves over finite fields. Elliptic curve cryptography requires smaller keys compared to non-ECC cryptography to provide equivalent security.

The security of this cryptosystem depends on hardness of discrete logarithm problem in the group of points of an elliptic curve defined over a finite field, and it is found that the discrete logarithm problem in elliptic curve is as hard as in any other groups [11].



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Multi-stage Multi-secret Sharing Scheme for Hierarchical Access Structure

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Abstract—Hierarchical threshold secret sharing (HTSS) schemes can be thought as a generalization of classical threshold secret sharing schemes, and they have been extensively in the literature. In an HTSS, participants are classified into different security levels, and the threshold value of a higher level is smaller than that of a lower level. Participants in each level can recover the secrets, if the number of shares is equal to or more than the corresponding threshold value. Share of a higher level participant can be used to reconstruct the secret at lower level. In this paper, we proposed first hierarchical threshold multi-secret sharing scheme based on polynomial interpolation. Proposed scheme is a variation to HTSS schemes based on the CRT suggested by Singh et al. and Hara et al. Novelty of the proposed scheme is that each participant requires to keep only one secret share and multiple secrets can be shared separately without refreshing the secret share. Also, secrets are recovered in stage by stage. Our scheme which is unconditionally secure, is based on Lagrange interpolation polynomial and one-way function.

keywords: Hierarchical, Multi-secret, Multi-stage, Polynomial, Secret Sharing.

1. Introduction

A secret sharing scheme (SSS) is a method in which a secret is divided into shares. These shares are distributed among the set of participants by a dealer in such way that any authorized set of participants can recover the secret by combining their shares, whereas any unauthorized set of participants cannot get any knowledge about the secret. The first SS schemes were introduced by Shamir [1] and Blakley [2] in 1979 independently. Shamir's scheme is based on the Lagrange interpolation polynomial while Blakley's scheme is realized using linear projective geometry. Their schemes are known as (t, n) threshold SSS, where t is the threshold and n is the number of participants. A (t, n) threshold SSS allows any t or more than t participants to recover the secret, while it does not allow any less than t participants to recover the secret.

In Shamir's threshold secret sharing scheme, a trusted dealer generates n secret shares based on a $(t-1)^{\text{th}}$

degree polynomial. Secret reconstruction is based on lagrange polynomial interpolation of any t or more than t set of private shares. A SSS is ideal if the maximal length of the shares is same as that of the secret. If the set of shares corresponding to an unauthorized set provide no any information and the set of shares corresponding to an authorized set gives all the information of the secret, in the information- theoretic sense, then the scheme is perfect.

The family of all authorized sets, who can recover the secret, is known as an access structure. Γ is the symbol generally used to denote access structure of a SSS. The set of all unauthorized sets, which can not gain any knowledge about the secret, is called adversary structure or forbidden set and it is denoted by $\bar{\Gamma}$. Several access structures are proposed in the literature. Example include generalized access structure, (t, n) threshold access structure and multipartite access structure.

In a (t, n) threshold access structure any set of t or more participants out of n is an authorized set and any set of less than t participants is an unauthorized set. That is

$$\Gamma = \{X \in 2^N : |X| \geq t\}$$

$$\bar{\Gamma} = \{X \in 2^N : |X| < t\}$$

where 2^N denotes the power set of the set of participants.

An access structure is called monotone, if it satisfies the following:

$$(X \in \Gamma) \wedge (X \subseteq Y) \Rightarrow Y \in \Gamma$$

$$(X \in \bar{\Gamma}) \wedge (Y \subseteq X) \Rightarrow Y \in \bar{\Gamma}$$

If Γ and $\bar{\Gamma}$ are such

$$\Gamma = \{X \in 2^N : |X| = t\} \text{ and}$$

$$\bar{\Gamma} = \{X \in 2^N : |X| = t-1\}$$

then we say that Γ only contains the minimal authorised sets which can get the secret, $\bar{\Gamma}$ only holds maximal unauthorised sets which can not get the secret.

Let \mathcal{P} denote the set of all n participants. Let these participants be divided into $m \geq 2$ disjoint levels L_1, L_2, \dots, L_m so that each level L_i has n_i participants with a threshold value t_i , where $n = \sum_{i=1}^m n_i$. All participants in level L_i play



Design Of Thermometer Code To Binary Encoder using Systematic Cell Design Methodology

M.Bharathi¹, Dr. D.Leela Rani²

Abstract

A Systematic Cell Design Methodology based on pass transistor and transmission gate in the category of hybrid CMOS logic style is proposed and used for design balanced three input XOR/XNOR circuits. System cell design methodology (SCDM) is an extension of cell design methodology (CDM). In this methodology, in order to get high flexibility in design targets, designer utilizes various basic cells, including three independent inputs and two complementary outputs and different mechanisms of correction and optimization techniques, in order to create complementary outputs and performance and wide range of applications. Accordingly, full swing balanced three input XOR/XNOR are proposed to drive capability, full balanced full swing outputs and less number of transistors of being structure, high performance, operating at low voltages and excellent signal integrity. This structure is generated systematically by employing binary decision algorithm. As an especial feature, the critical path of the presented design consists of only two elements, which causes low propagation delay. All simulations have been performed with HSPICE software to achieve the minimum power delay product. On average these circuit outperforms their counterparts showing 35%-57% improvement in the power delay product and this topology minimizes 13%-19% of the area of the layout. A thermometer to binary code converter is designed by using this three input splitters with the help of systematic cell design methodology which are useful to design full adders.

Keywords

Binary Decision Algorithm, Cell based methodology, Thermometer binary code convert

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1. Introduction

With the rapid growth of portable electronic devices, it is becoming a critical challenge to design low-power, high-speed digital circuits that occupy small chip areas. We have seen published papers that compete in designing digital circuits [1]. Such studies mostly rely on creative design ideas but do not follow a systematic approach. These designs are not organized design methodology can be treated as a solution for the challenge. It is not try-and-error, which means that it systematically and deliberately aims to the design goals. It also picks circuit components and does not propose to determine the circuit characteristics after simulation. Cell design methodology

(CDM) has been presented to design some limited functions, such as two-input XOR/XNOR and carry-invert carry in the hybrid CMOS style [7][8]. The predominant results persuade us to improve CDM through two stages: 1) generating more complex functions and 2) rectifying some remaining flaws. The flaws in previously published CDM include containing some manual steps in the design flow and generating a large number of designs in which the predominant ones would be determined after the completion of simulation. Therefore, in the first stage, a three-input XOR/XNOR as one of the most complex and all-purpose three-input basic gates in arithmetic circuits [10] has been chosen. If the efficiency of the circuits is confirmed in such a competitive environment, it can show the strength of the methodology. In the next stage, CDM is alternative as systematic CDM (sCDM) as designing the three-input XOR/XNORs for the first time. It systematically generates elementary basic cell (EBC) using binary decision diagram (BDD) and early chosen circuit components based on a specific target. This takes place when the mentioned features are not considered in the CDM. Therefore after the systematic generation, the sCDM involves circuit optimization has 3 steps: 1)

wide selection of the basic cell; 2) wide selection of the second mechanisms; and 3) inverter using mechanism. It should be noted that BDD can be used for EBC generation of other three-input functions. We consider the power-delay product (PDP) as the design target. It stands as a fair performance metric, precisely involving portable electronic system targets. The exclusive-OR (XOR) and exclusive-NOR (XNOR) gates are the essential parts of several digital systems and are greatly used in very large scale integration systems [1] such as parity based checkers, comparators, crypto processors [2][3], arithmetic and logic circuits [4-7], test pattern generators [8], especially, full adder module of Sum output that is 3-input XOR and so forth. Most of these systems, XOR and XNOR gates constitute part of the worst case delay path of the system, which significantly affects the worst case delay and the overall performance of the system. An optimized design is desired to avoid any degradation on the output voltage, consume less power, and have less delay in critical path with low supply voltage as we scale toward deep submicron technologies. Other desired features for the design are to have a lower number of transistors for implementation. In particular, for XOR and XNOR circuits, simultaneous generation of the two non-skewed outputs is highly desirable [9]. As known, the switching speed of the balanced XOR and XNOR functions, comparing with other designs that use an inverter to generate the complement signal, is increased by eliminating the inverter from the critical path [8][11]. In this a formal design method for balanced 3-input XOR/XNOR circuits in hybrid CMOS logic style in this methodology, we start with selecting a basic cell including 3-input and two outputs. Next and if necessary we can apply a different correction mechanisms and optimization methods to obtain balanced 3-input XOR/XNOR circuits. Accordingly and by using four basic cells, it consists of six balanced, 3-input XOR/XNOR circuits design. In this type of logic design, new full-swing outputs play a decisive role in cell drivability. Full-swing outputs impact multi-stage structured arithmetic circuits design performance [12][13]. Thus, by designers can consider to achieve full swing output operations as an important factor in the basic block design of arithmetic circuits. In addition, all of the proposed circuits whose worst path path contains only two transistors have low average power consumption and delay.

2. EXISTING METHODOLOGY

This Existing methodology is based on using pass transistors as basic cells and optimization mechanisms. To obtain basic cells, 3-input XOR/XNOR function is investigated. For choosing the design, we use the simulation results [10][11] in which the balanced two input based XOR/XNOR circuits based on the Cell2 have presented better results.

A. Cell Design Methodology Based on Pass Transistors

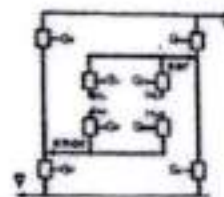


Figure 1. The Elementary Basic Cell

In this Methodology, the function of three input XOR/XNOR is implemented with the pass transistors by using cell design methodology but it does not implemented systematically.

B. The Elementary Basic Cell

In this process of designing a balanced 3-input XOR/XNOR circuits, the difficulties achieved are three independent inputs and two complementary outputs. The elementary basic cell which is extracted of minimum sum of product form of 3-input XOR/XNOR is presented in Figure 1. This cell has eight elements, deciding two outputs. Each element is a pass transistor or transmission gate and has two input controls, i.e., the gate and either the drain or the source.

The input signals (applied to the two input terminals of these transistors) and the selection of pMOS, nMOS transistors and gate decide various output states. As shown in Figure 2.1, we refer to the pins of central section (S1 to S4 and G1 to G3) as A or C, or their complements respectively. Assume the pins of external section G2 to G3 can also be B or its complements form. Another form of the elementary basic cell is realized by swapping the position of B or its complement that is G2 to G3 and the outputs of central section that are the drains or the sources of external section. This form of the circuit for the elementary basic cell is requires less power and ground loss (P-G). Therefore, the complementary outputs are only affected by input drivability and charged or discharged.

C. The Introduction of Basic Cells

In this Methodology, Basic cell is implemented in two versions. Basic Cell: Version II We proceed basic cell 2 (referred as BC2). In this cell, nMOS transistors for all the four external basic and transmission gate for central section boxes are selected. In order to convert the BC2 into an XOR/XNOR circuit, which provides full swing operation, it is necessary that the high impedance states of outputs to be replaced with "1". We also have to optimize the circuit using various methods to eliminate the non full swing operation. We present the first version of the elementary basic cell (referred to as BC1) in Fig. In this cell, all six transistors are nMOS. Truth table of the BC1

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GREEN GROWTH IN INDIA: POLICIES & INITIATIVES

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ABSTRACT

Green Growth means fostering economic growth and development, while ensuring that natural assets continue to provide the resources and environmental services on which our well-being relies. Today, India is witnessing a positive change in the corporate and government sector, with respect to green development, which is an opportunity for the country to exercise environmental stewardship, accelerate economic growth and strengthen governance, while achieving social justice.

This paper attempts to address the concept of Green Growth –Its origin, definition & Objectives. The paper includes briefly outline Green growth challenges & indicators . It also discusses green growth policies & initiatives adopted in India finally focuses how India boosting Green growth.

KEYWORDS: Green Growth, Green Policies, Sustainable Development, Environmental Degradation, Environmental Sustainability, Green Investment, Green Banking.



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GREEN GROWTH IN INDIA: POLICIES & INITIATIVES

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INTRODUCTION

The concept of green growth originated in the Asia and Pacific Region. At the Fifth Ministerial conference on Environment and Development, March 2005, Seoul, fifty two governments and other stakeholders from Asia and The Pacific region agreed to pursue the path of "Green Growth" and adopted a declaration 'The Seoul Initiative Network on Green Growth'. The objective was to develop strategies of developing a green economy to eliminate the tradeoffs between economic growth and investment and gains in environmental quality and social inclusiveness.

OCED, 2011, defines Green growth as "fostering economic growth and development while ensuring that natural assets continue to provide the resources and environmental services on which our well-being relies."

UNEP defines a green growth process as "...one that results in improved human well-being and social equity, while significantly reducing environmental risks and ecological scarcities.... The key aim for a transition to a green economy is to eliminate the trade-offs between economic growth and investment and gains in environmental quality and social inclusiveness" (UNEP 2011).

ICC Green Economy task Force states "...Economic growth and environmental responsibility work together in a mutually reinforcing fashion while supporting progress on social development. Business and industry have a crucial role in delivering economically viable products, process, services and solutions required for transition to a green economy".



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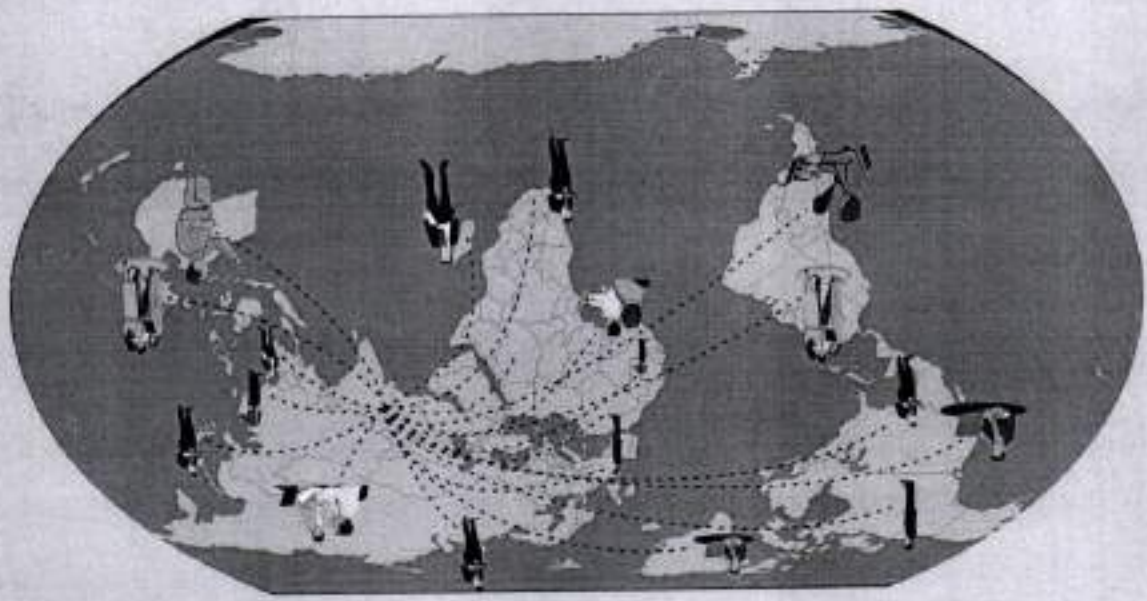
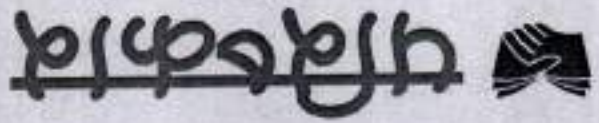
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Sustaining Growth Through Responsible Tourism With special reference to the Telangana

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Abstract

Tourism has emerged as one of the world's largest industries and one of its fastest growing economic sectors. For many countries tourism is seen as a main instrument for regional development, as it stimulates new economic activities. Telangana, a popular destination for tourists not just from around the country, but also from around the world, vigorously promoting different destinations catering to the needs of the visiting tourists and aspires to sustain growth through responsible tourism.

Based on an extensive secondary data, this paper focuses on tourism policies which include respondents public & private, Institutional arrangements made for development of tourism in telangana. The survey explores the role of Telangana State Tourism Development Corporation (TSTDC) in promoting and attracting the tourists. It further examines the initiatives that have been undertaken by Tourism department and TSTDC and in particular to develop sustainable in tourism destinations through responsible tourism. Finally an attempt is made to provide suggestions for sustaining growth through responsible tourism in telangana.

Keywords: sustainability, sustainable tourism, tourism policy, responsible tourism

Introduction:

The tourism industry is one of the largest growing industries day by day. With the current advancement in technology and trends, there have been many business improvements of tourism all through the world. It is very important for the tourism industry to promote responsible tourism and take actions accordingly in order to better develop the industry and preserve the culture and heritage of one's country.

Review Of Literature

In order to understand why responsible tourism has been posited as an antidote to the negative impacts of tourism, we should look first at the broader debate and concepts of sustainable development and sustainable tourism development from which responsible tourism has emerged.

Although the concept of conservation per se is not new (Hall 1998), the recent awareness of environmental issues can be traced to 1972 and the first United Nations summit to consider the issues of the impact of humanity on the world. The summit placed the conservation of the environment into the spotlight of public awareness and it remained on the political agenda throughout the 1970s, gathering momentum during the 1980s. This increased interest was manifested in Our Common Future, or the Brundtland Report as it is commonly known, where the term sustainable development entered popular use. The report defines sustainable development as "development that meets the needs of the present generation without compromising the ability of future generations to



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