


3.3.3 Number of books and chapters in edited volumes/books published and papers published in national/international conference proceedings per teacher during year

Sl. No.	Name of the teacher	Title of the book/chapter published	Title of the paper	Title of the conference	Name of the conference	National / International	Year of publication	ISBN/ISSN number of the proceedings	Affiliating Institute at the time of publication	Name of the publisher
1	Mishra, D., Rajanikanth, K., Shummugasundaram, M., Kumar, A.P., Maneiah, D.	Materials Today: Proceedings	Dissimilar resistance spot welding of mild steel and stainless steel metal sheets for optimum weld nugget size	Materials Today: Proceedings	2nd International Conference on Manufacturing Material Science and Engineering, ICMMSSE 2020	International	2021	22147853	CMR Technical campus, hyderabad	Elsevier
2	Kamalakkannan, R., Ramesh, C., Shummugasundaram, M., Sivakumar, P., Mohamed, A.	Materials Today: Proceedings	Evaluation and selection of suppliers using TOPSIS	Materials Today: Proceedings	2nd International Conference on Manufacturing Material Science and Engineering, ICMMSSE 2020	International	2020	22147853	CMR Technical campus, hyderabad	Elsevier
3	Sivasankar, S., Sankar, L.P., Kumar, A.P., Shummugasundaram, M.	Materials Today: Proceedings	Strengthening of square hollow steel sections using carbon fibre reinforced polymer strips subjected by compression	Materials Today: Proceedings	2nd International Conference on Manufacturing Material Science and Engineering, ICMMSSE 2020	International	2020	22147853	CMR Technical campus, hyderabad	Elsevier
4	Sankar, L.P., Sivasankar, S., Shummugasundaram, M., Kumar, A.P.	Materials Today: Proceedings	Predicting the polymer modified ferrocement ultimate flexural strength using artificial neural network and adaptive network based fuzzy inference system	Materials Today: Proceedings	2nd International Conference on Manufacturing Material Science and Engineering, ICMMSSE 2020	International	2020	22147853	CMR Technical campus, hyderabad	Elsevier

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5	Kumar, A.P., Shunmugasund aram, M., Sivasankar, S.	Materials Today: Proceedings	Numerical analysis on the axial deformation	Materials Today: Proceedings	2nd International Conference on Manufacturing Material Science	International	2020	22147853	CMR Technical campus, hyderabad	Elsevier
6	Kumar, A.P., Shunmugasund aram, M., Sivasankar, S., Amuthavalli, N.K.	Materials Today: Proceedings	Evaluation of axial crashworthines s performance of composite wrapped metallic circlear tubular structures	Materials Today: Proceedings	2nd International Conference on Manufacturing Material Science and Engineering, ICMMSE 2020	International	2020	22147853	CMR Technical campus, hyderabad	Elsevier
7	Sankar, L.P., Sivasankar, S., Shunmugasund aram, M., Kumar, A.P.	Materials Today: Proceedings	Investigation on binder and concrete with fine grinded fly ash and silica fume as pozzolanic combined replacement	Materials Today: Proceedings	2nd International Conference on Manufacturing Material Science and Engineering, ICMMSE 2020	International	2020	22147853	CMR Technical campus, hyderabad	Elsevier
8	Shunmugasund aram, M., Kumar, A.P., Amudhavalli, N.K., Sivasankar, S.	Materials Today: Proceedings	Parametric optimization on tensile strength of friction stir butt joints of dissimilar aa6061 and aa5052 aluminium alloys by taguchi technique	Materials Today: Proceedings	2nd International Conference on Manufacturing Material Science and Engineering, ICMMSE 2020	International	2020	22147853	CMR Technical campus, hyderabad	Elsevier
9	Kumar, A.P., Shunmugasund	Materials Today:	Staic axial crushing	Materials Today: Proceedings	2nd International Conference on	International	2020	22147853	CMR Technical campus,	Elsevier


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10	Shunmugasundaram, M., Kumar, A.P., Sankar, L.P., Sivasankar. S.	Materials Today: Proceedings	Experimental investigation and process parameters optimization of stir cast aluminium metal matrix composites to improve material removal rate	Materials Today: Proceedings	2nd International Conference on Manufacturing Material Science and Engineering. ICM MSE 2020	International	2020	22147853	CMR Technical campus, hyderabad	Elsevier
11	Amudhavalli, N.K., Sivasankar, S., Shunmugasundaram, M., Kumar, A.P.	Materials Today: Proceedings	Characteristics of granite dust concrete with m-sand as replacement of fine aggregate composites	Materials Today: Proceedings	2nd International Conference on Manufacturing Material Science and Engineering. ICM MSE 2020	International	2020	22147853	CMR Technical campus, hyderabad	Elsevier
12	Shunmugasundaram, M., Kumar, A.P., Sankar, L.P., Sivasankar, S.	Materials Today: Proceedings	Optimization of process parameters of friction stir welded dissimilar AA6063 and AA5052 aluminum alloys by Taguchi technique	Materials Today: Proceedings	2nd International Conference on Manufacturing Material Science and Engineering. ICM MSE 2020	International	2020	22147853	CMR Technical campus, hyderabad	Elsevier
13	Shunmugasundaram, M., Ali baig, M.A., Ajay Kumar, M.	Materials Today: Proceedings	A review of bio-degradable materials for fused deposition modeling machine	Materials Today: Proceedings	2nd International Conference on Manufacturing Material Science and Engineering. ICM MSE 2020	International	2020	22147853	CMR Technical campus, hyderabad	Elsevier

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Dr. M. S. Sankar

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14	Maneiah, D., Shummugasund aram, M., Reddy, A.R., Begum. Z.	Materials Today: Proceedings	Optimization of machining parameters for surface roughness during abrasive water jet machining of aluminium/mag nesium hybrid metal matrix composites	Materials Today: Proceedings	2nd International Conference on Manufacturing Material Science and Engineering. ICMMSE 2020	International	2020	22147853	CMR Technical campus, hyderabad	Elsevier
15	Maneiah, D., Mishra. D., Kumar, A.P., Shummugasund aram, M., Mangesh, L.	AIP Conference Proceedings	Effect of welding angle on strength of friction welded aluminum 6061- T6 alloy welded joints	Physics and Astronomy (miscellaneous)	AIP Conference Proceedings	International	2021	0094243X	CMR Technical campus, hyderabad	Elsevier
16	Maneiah, D., Kumar, A.P., Shummugasund aram, M., Mishra, D., Sravani, D.	AIP Conference Proceedings	Progressive collapse behaviour of aluminium- composite bitubular energy absorbers subjected to axial loading	Physics and Astronomy (miscellaneous)	AIP Conference Proceedings	International	2021	0094243X	CMR Technical campus, hyderabad	Elsevier
17	Maneiah, D., Shummugasund aram, M., Kumar, A.P., Mishra, D., Kumar, M.A.	AIP Conference Proceedings	Influence of abrasive water jet machining parameters on material removal rate of hybrid metal matrix composites	Physics and Astronomy (miscellaneous)	AIP Conference Proceedings	International	2021	0094243X	CMR Technical campus, hyderabad	Elsevier

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18	Kumar, A.P., Shunmugasundaram, M., Mishra, D., Maneiah, Rao, M.G.	AIP Conference Proceedings	Physics and Astronomy (miscellaneous)	AIP Conference Proceedings	International	2021	0094243X	CMR Technical campus, hyderabad	Elsevier
19	Sivasankar, S., Amudhavalli, N.K., Kumar, A.P., Shunmugasundaram, M.	Materials Today: Proceedings	Materials Today: Proceedings	2nd International Conference on Manufacturing Material Science and Engineering, ICMMSSE 2020	International	2020	22147853	CMR Technical campus, hyderabad	Elsevier
20	Sivasankar, S., Sankar, L.P., Kumar, A.P., Shunmugasundaram, M.	Materials Today: Proceedings	Materials Today: Proceedings	2nd International Conference on Manufacturing Material Science and Engineering, ICMMSSE 2020	International	2020	22147853	CMR Technical campus, hyderabad	Elsevier
21	A. Praveen Kumar, M. Shunmugasundaram, S. Sivasankar, N. K. Amudhavalli	Advances in Lightweight Materials and Structures	International conference on Advanced Lightweight Materials and Structures	ICALMS 2020	International	2020	662-3161/2662-3177	CMR Technical campus, hyderabad	Springer, Singapore

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22	S. Sivasankar , N. K. Amudhavalli , A. Praveen Kumar , M. Shunmugasundaram	Advances in Lightweight Materials and Structures	Effect of Carbon Fiber-Reinforced Polymer Strips on Square Steel Tubular Sections Under Compression	International conference on Advanced Lightweight Materials and Structures	ICALMS 2020	International	2020	662-3161/2662-3171	CMR Technical campus, hyderabad	Springer, Singapore
23	N. K. Amudhavalli , S. Sivasankar . M. Shunmugasundaram , A. Praveen Kumar	Advances in Lightweight Materials and Structures	Correlation Involving Compressive Strength and Flexural Strength of Polyester Fiber-Reinforced Binary Blended Concrete	International conference on Advanced Lightweight Materials and Structures	ICALMS 2020	International	2020	662-3161/2662-3171	CMR Technical campus, hyderabad	Springer, Singapore
24	Ahamad, N. Ameer; Azeem; Baig, Maughal Ahmed Ali; Shunmugasundaram, M.	Advances in Lightweight Materials and Structures	Conjugate Heat and Mass Transfer Due to Solid Block in Porous Material	International conference on Advanced Lightweight Materials and Structures	ICALMS 2020	International	2020	662-3161/2662-3171	CMR Technical campus, hyderabad	Springer, Singapore
25	M. Shunmugasundaram , A. Praveen Kumar , N. K. Amudhavalli , and S. Sivasankar	Advances in Lightweight Materials and Structures	Investigations on the Tensile and Flexural Properties of Vacuum-Infused Area Polymer Nanocomposites	International conference on Advanced Lightweight Materials and Structures	ICALMS 2020	International	2020	662-3161/2662-3171	CMR Technical campus, hyderabad	Springer, Singapore


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26	M. Shunmugasundaram, P. Anand, Maughal Ahmed Ali Baig, Yamini Kasu	Advances in Lightweight Materials and Structures	Experimental Investigation on Tensile Property of Vacuum Infused Kenaf-Based Polymer Composite with the Presence of Nanofillers	International conference on Advanced Lightweight Materials and Structures	ICALMS 2020	International	2020	662-3161/2662-3171	CMR Technical campus, hyderabad	Springer, Singapore
27	Kamalakkanan, R.; Shunmugasundaram, M.; Nagaraj, R.; Aravindhan, D.; Thouffic, S. Mohammed	Advances in Lightweight Materials and Structures	A Discrete Artificial Immune System Algorithm for the Lot Streaming Flow Shop Scheduling Problem	International conference on Advanced Lightweight Materials and Structures	ICALMS 2020	International	2020	662-3161/2662-3171	CMR Technical campus, hyderabad	Springer, Singapore
28	Dr. K. SrujanRaju		Data Mining in Healthcare and Predicting Obesity, pp 877-888	Proceedings of the Third International Conference on Computational Intelligence and Informatics, March 2020	Third International Conference on Computational Intelligence and Informatics	International	2020	2194-5365	CMR Technical campus, hyderabad	Springer
29	Dr. K. SrujanRaju		Automatic Temperature Control System Using Arduino, pp 219-226	Proceedings of the Third International Conference on Computational Intelligence and Informatics, March 2020	Third International Conference on Computational Intelligence and Informatics	International	2020	2194-5365	CMR Technical campus, hyderabad	Springer

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30	Dr. SrujanRaju		Energy Distribution in a Smart Grid with Load Weight and Time Zone, pp 109-121	Proceedings of the Third International Conference on Computational Intelligence and Informatics, March 2020.	Third International Conference on Computational Intelligence and Informatics	International	2020		2194-5365	CMR Technical campus, hyderabad	Springer	30
31	Dr. SrujanRaju		Review of Optimization Methods of Medical Image Segmentation. pp 109-121	Proceedings of the Third International Conference on Computational Intelligence and Informatics, March 2020.	Third International Conference on Computational Intelligence and Informatics	International	2020		2194-5365	CMR Technical campus, hyderabad	Springer	31
32	Dr. SrujanRaju		Speech Recognition to Build Context: A Survey		International Conference on Computer Science, Engineering and Applications (ICCSEA)	International	2020		9.78173E+12	CMR Technical campus, hyderabad	IEEE	32
33	Dr. SrujanRaju	Data Engineering and Communications Technologies	A Mobility Adaptive Efficient Power Optimized Protocol for MANETs Based on Cross-Layering Concept			International	2021		2367-4512	CMR Technical campus, hyderabad	Springer	33
34	Dr. SrujanRaju	Data Engineering and Communications Technologies	Analysis of Channel Estimation in GFDM System, Data Engineering and Communications Technology			International	2021		2367-4512	CMR Technical campus, hyderabad	Springer	34


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35	Dr. SrujanRaju	K. Data Engineering and Communications Technologies	Evaluating the AdaBoost Algorithm for Biometric-Based Face Recognition		International	2021		2367-4512	CMR Technical campus, hyderabad	Springer	35
36	Dr. SrujanRaju	K. Data Engineering and Communication Technology	GFDM-Based Device to Device Systems in 5G Cellular Networks	Proceedings of 3rd ICDECT-2K19	International	2021		2367-4520	CMR Technical campus, hyderabad	Springer	36
37	Dr. SrujanRaju	K. Data Engineering and Communications Technologies	COVID-19 Isolation Monitoring System		International	2021		2367-4512	CMR Technical campus, hyderabad	Springer	37
38	Dr. SrujanRaju	K. Advances in Intelligent Systems and Computing	A Method of Speech Signal Analysis Using Multi-level Wavelet Transform		International	2020		2194-5357	CMR Technical campus, hyderabad	Springer	38
39	Dr. SrujanRaju	K. Advances in Intelligent Systems and Computing	Miss Rate Estimation (MRE) and Novel Approach Toward L2 Cache Partitioning Algorithms for Multicore System		International	2020		2194-5357	CMR Technical campus, hyderabad	Springer	39
40	Dr. SrujanRaju	K. Advances in Intelligent Systems and Computing	Efficient Lossy Audio Compression Using Vector Quantization (ELAC-VQ)		International	2020		2194-5357	CMR Technical campus, hyderabad	Springer	40


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41	Dr. SrujanRaju	K. Advances in Intelligent Systems and Computing	A Systematic Survey on IoT Security Issues, Vulnerability and Open Challenges		International	2020			2194-5357	CMR Technical campus, hyderabad	Springer	41
42	Dr. SrujanRaju	K. Advances in Intelligent Systems and Computing	Configure and Management of Internet of Things		International	2020			2194-5357	CMR Technical campus, hyderabad	Springer	42
43	Dr. SrujanRaju	K. Studies in Big Data	Internet of Things-Based Security Model and Solutions for Educational Systems		International	2020			2197-6503	CMR Technical campus, hyderabad	Springer	43
44	Dr.K.Maheswari		Prediction of Polycystic Ovarian Syndrome Using F3I Based Machine Learning Approach for Earlier Treatment	international conference on cognitive Intelligent computing	International	2021				CMR College of Engineering and Technology,Hyderabad		44
45	Dr.K.Maheswari	Data Mining			National	2021			978-93-91987-02-2	CMR technical Campus,Hyderabad	Jayalakshmi Publi	45


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46	Dr. V. Malsoru	"Big Utility Sequential Patterns Mining Algorithm along with Hadoop and Map Reduce Frame work"	"Big Utility Sequential Patterns Mining Algorithm along with Hadoop and Map Reduce Frame work"	"Big High Utility Sequential Mining Algorithm along with Hadoop and Map Reduce Frame work"	"Journal Theoretical and Applied Information Technology"	International	5th November 2020	1992-8645	JITS	Little Lion Scienti	46
47	Najeema Afrin	Advances in Intelligent Systems and Computing	A New Ensemble Technique for Recognize the Long and Shortest Text	Advances in Intelligent Systems and Computing	2nd National Conference on Computer Security, Image Processing, Graphics, Mobility and Analytics	National	2020	Pages 481-486	CMR TECHNICAL CAMPUS	Najeema Afrin	47
48	Dr.K.Maheswari	"Big Utility Sequential Patterns Mining Algorithm along with Hadoop and Map Reduce Frame work"	Prediction of Polycystic Ovarian Syndrome Using F31 Based Machine Learning Approach for Earlier Treatment	international conference on cognitive Intelligent computing		International	2021		CMR College of Engineering and Technology.Hyderabad		48
50	Dr. V. Malsoru	"Big Utility Sequential Patterns Mining Algorithm along with Hadoop and Map Reduce Frame work"	"Big Utility Sequential Patterns Mining Algorithm along with Hadoop and Map Reduce Frame work"	"Big High Utility Sequential Mining Algorithm along with Hadoop and Map Reduce Frame work"	"Journal Theoretical and Applied Information Technology"	International	5th November 2020	1992-8645	JITS	Little Lion Scienti	49

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51	Advances in Intelligent Systems and Computing	A New Ensemble Technique for Recognize the Long and Shortest Text	The Research Importance and Possible Problem Domains for NoSQL Databases in Big Data Analysis	Proceedings of the 2nd International Conference on Computational and Bio Engineering	2nd National Conference on Computer Security, Image Processing, Graphics, Mobility and Analytics NCCSIGMA	National	2020	Pages 481-486	CMR Technical campus, hyderabad	Najeema Afrin
52	Lecture Notes in Networks and Systems	An Efficient Design of Blood Vessel Image Extraction Using LBP Technique	Proceedings of I3CAC, 2021	Proceedings of I3CAC, 2021	I3CAC, 2021	International	2021	2367-3370	CMR Technical campus, hyderabad	Springer
53	Dr. G. Somasekhar	Dr. S. Vijaya Bhaskar Reddy	Experimental studies on steel fiber reinforced short ternary columns under axial loading	Materials Today: Proceedings	International Conference & Exposition on Mechanical, Material and Manufacturing Technology(ICE3M T2020)	International	2021	2214-7853	CMR Technical campus, hyderabad	Elsevier
54	Dr. Rumpa Sutradhar	Strength characteristics of micronized silica concrete with polyester fibre	Materials Today: Proceedings	Materials Today: Proceedings	International Conference & Exposition on Mechanical, Material and Manufacturing Technology(ICE3M T2020)	International	2021	2214-7853	CMR Technical campus, hyderabad	Elsevier
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56	A. Nagaraju		An Experimental study on Self-compacting concrete by packing Density Method	IOP Conference Series: Materials Science and Engineering	International Conference on Materials, Mechanical and Energy Engineering	International	2021	1757-899X	CMR Technical campus, hyderabad	IOP Conference Series
57	Dr. Chilakala S	Advances in Modern Sensors- Physics, Design, Simulation and Applications	Smart stick for the visually impaired		Book Chapter IOP S	International	2020	9780-750327060	CMR Technical campus, hyderabad	IOP Publishing
58	Dr. Chilakala S	Performance of Cooperative Spectrum Sensing in Cognitive Radio Networks	Doctoral Thesis/Disseration of Performance	Advances in Modern Se	https://www.grin.com	International	2020		CMR Technical campus, hyderabad	GRIN
59	Dr. Chilakala S	Automation of Traffic Lights through IoT	Automation of Traffic Lights through IoT	7 th IEEE international virtual conference on smart structures and systems	7 th IEEE international virtual conference on smart structures and systems	National	2020	97836-56087397	CMR Technical campus, hyderabad	IEEE
60	Dr.K.Mohana I	Machine Learning Approaches and Applications in Applied Intelligence for Healthcare Data Analytics	Big Data-Based Frameworks and Machine Learning		Book Chapter	International	2022	978172-8172231 978100-3132110	CMR Technical campus, hyderabad	taylor francis,CRC Press

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61	Dr.K.Mohana L	Performance Measurement of Reed-Solomon Code through AWGN Channel Under Various Modulation Schemes	Performance Measurement of Reed-Solomon Code through AWGN Channel Under Various Modulation Schemes	International Conference on Mobile Networks and Wireless Communications (ICMNBC-2021)	International Conference on Mobile Networks and Wireless Communications (ICMNBC-2021)	International	2021		CMR Technical campus, hyderabad	IEEE
62	Dr Mahesh V S AIP	Design and analysis of two dimensional electromagnetic band gap antenna for WIFI applications	AIP Conference Proceedings	ICMSE 2020	ICMSE 2020	International	2021	978-0-7354-4114-9	CMR Technical campus, hyderabad	AIP
63	Dr Mahesh V S	A Collection of Contemporary Research Articles in Electronics, Communication and Computation	Estimation through Points of Interest based on Surf and MSER Descriptors	A Collection of Contemporary Research Articles in Electronics, Communication and Computation	NCECC-2020	National	2021	978-81-948050-7-6	CMR Technical campus, hyderabad	MANTECH
64	SK.Dilshad	Analytical Variable execution of Vedic Multiplier using FinFET	GDGI Full	International Conference	ICMEET 2021	International	2021		CMR Technical campus, hyderabad	IEEE
65	Srinivas Konda	Data Mining and Machine Learning Applications	Classification and Mining Behaviour of Data				2022	https://link.springer.com/1119792509	CMR Technical campus, hyderabad	Wileys



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66	Cognitive Behavior and Human Computer Interaction Based on Machine Learning Algorithm	Predictive Model and Theory of Interaction		international	2021	9781119791607	CMR Technical campus, hyderabad	scriverner publishing	65
67	Sequential Pattern Mining for the U.S. Presidential Elections Using Google Cloud Platform (GCP)	Advances in Intelligent Systems and Computing book series	springer	international	2020	978-981-15-5400-1	CMR Technical campus, hyderabad	springer	66
68	Intelligent System Design Advances in Decision Sciences, Image Processing, Security and Computer Vision	Early Prediction of Non-communicable Diseases Using Soft Computing Methodology		international	2020	NA	CMR Technical campus, hyderabad	springer	67
69	Lecture Notes in Electrical Engineering	Statistical Metric Measurement Approach for Hazy Images	Proceedings of the International Conference on Communications and Cyber Physical Engineering 2018	international	2019	NA	JITS	springer	68
70		Nanoplasmonic Multiband Band Pass Filters For THz Wireless Communications	IEEE Research and Applications of Photonics in Defense Conference (RAPID)	international	2021	21130231	CMR Technical campus, hyderabad	IEEE	69

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71					2021 Third International Conference on Intelligent Communication Technologies and Virtual Mobile Networks (ICICV)	Published in: 2021 Third International Conference on Intelligent Communication Technologies and Virtual Mobile Networks (ICICV)	international		2021	20607812	CMR Technical campus, hyderabad		70
72	Srinivas Konda	Text Summarization of Multiple Documents Using Binary Fruit Fly Optimization Algorithm	Text Summarization of Multiple Documents Using Binary Fruit Fly Optimization Algorithm	2021 Third International Conference on Intelligent Communication Technologies and Virtual Mobile Networks (ICICV)	Published in: 2021 Third International Conference on Intelligent Communication Technologies and Virtual Mobile Networks (ICICV)	international		2021	20607812		iecc		70
73	Kishore Kumar M	Data Mining and Classification	Lecture Notes in Networks and Systems	2021 978-981-16-1941-0 1119792509	Proceedings of the 2nd International Conference on Computational and Bio Engineering	international		2021 2022	978-981-16-1941-0 1119792509	VITS CMR Technical campus, hyderabad	Springer Nature Wileys		71
74	Kishore Kumar M	HUGE INFORMATION INTEGRATION FOR EMERGENCY MANAGEMENT IN BIG DATA ENVIRONMENT				international							72
75	Bukya Mohanbabu	Software Engineering Risk Analysis In Requirement Engineering	International journal of creative research thoughts	2018 2320-2882		international		2018	2320-2882	jntuh	Scopus		73
	DR Shanker Nayak Bukya	Software Engineering Risk Analysis In Requirement Engineering	LAMBERT ACADEMIC PUBLICATIONS	2019	LAMBERT ACADEMIC PUBLICATIONS	LAMBERT ACADEMIC PUBLICATIONS		2019	1378	SVIT Secunderabad	LAMBERT ACADEMIC PUBLICATIONS		74

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76	DR Shanker Nayak Bukya	Web Technology With Practical Examples	Web Technology With Practical Examples	WEB TECHNOLOGY WITH PRACTICAL EXAMPLES	RESEARCHCHN INDIA PUBLICATIONS Published in Bonfring Intellectual Integrity.	RESEARCHCHN INDIA PUBLICATIONS Published in Bonfring Intellectual Integrity.	2019	978-93-86138-68-2	SVIT Secunderabad CMR Technical campus, hyderabad	RESEARCHCHN INDIA PUBLICATION S Published in Bonfring Intellectual Integrity.	75
77	DR Shanker Nayak Bukya	Ad Hoc and Sensor Networks	Ad Hoc and Sensor Networks	Published in Bonfring Intellectual Integrity.	Published in Bonfring Intellectual Integrity.	Published in Bonfring Intellectual Integrity.	2020	978-93-87862-79-1			76

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
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Dissimilar resistance spot welding of mild steel and stainless steel metal sheets for optimum weld nugget size

Debashis Mishra , K. Rajanikanth, M. Shunmugasundaram, A. Praveen Kumar, D. Maneliah

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Abstract

Different grades of steels are regularly used for various structural applications and it is always a difficult task to produce dissimilar welded joints. An attempt is made to weld thin sheets of mild steel (MS) and stainless steel (SS) materials by spot welding process by varying the different process parameters such as welding current, sheet thickness and different combinations of mild steel and stainless steel like MS with SS, MS with MS and SS with SS. The electrode is used as a copper and chromium alloy of 6 mm diameter. The experiment is designed as per the Taguchi L9 orthogonal approach by varying the three factors at three levels. The optimization of chosen factors and obtained weld nugget diameters as response values are performed to testify the statistical significance of the model terms by using R-square, analysis of variance (ANOVA), t and F tests, and desirability function. The outcomes will be useful in choosing the exact combinations of process parameters to achieve the desired quality spot-welded joints for automotive applications.

Section snippets

Introduction to spot welding technique and literature studies

Welding is a manufacturing processes regularly used in many different manufacturing industries. The benefits of the use of welding techniques are like different means of joining that may spot, seam, butt, lap, T, and corner joints can be produced. Complex geometries and shapes of various thickness and of different

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Predicting the polymer modified ferrocement ultimate flexural strength using artificial neural network and adaptive network based fuzzy inference system

L. Ponraj Sanakar^a, S. Sivasankar^b, M. Shunmugasundaram^c, A. Praveen Kumar^c

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Abstract

Ferrocement is a thin composite made with a cement-based mortar matrix reinforced with closely spaced layers of small diameter wire mesh. The mesh made of square weld mesh and minimum reinforcement. Ferrocement can also be considered a high performance laminated cementitious composite. The paper presents comparative models were developed to predict the Ultimate flexural strength using Artificial Neural Network and Adaptive Neuro-Fuzzy Inference System. The data have taken from experimental research work of ferrocement slabs. It reinforced with welded square mesh with different volume fraction and incorporating modified mortar with Recron fibre and artificial latex with varying percentage. This work is attempted to develop an optimized method for prediction of Ultimate flexural strength and to reduce the design time.

Introduction

Ferrocement is a construction material consisting of wire meshes and cement mortar. Applications of ferrocement in construction is vast due to the low self weight, lack of skilled workers, no need of formwork etc. It was developed by P.L. Nervi, an Italian architect in 1940. Quality of ferrocement works are assured because the components are manufactured on machinery set up and execution time at work site is less. Cost of maintenance is low. This material has come into widespread use only in construction in the last two decades. Properties of Ferrocement are highly versatile form of reinforced concrete. It's a type of thin reinforced concrete construction, in which large amount of small diameter wire meshes uniformly

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Investigation on binder and concrete with fine grinded fly ash and silica fume as pozzolanic combined replacement

L. Pongaj Sanakar^a, S. Sivasankar^b, M. Shunmugasundaram^c, A. Praveen Kumar^d

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Abstract

This paper presents the persuade of Fine Grinded Fly Ash (FGFA) and Silica Fume (SF) as a modified pozzolanic replacement to the binder. The OPC cement was combined replaced with FGFA in 0%, 5%, 10%, 15%, 20%, 25%, 30%, 35% and 40% and Silica Fume in 5% to weight of cement. The consistency of water is tested based on the values Cement, FGFA and SF combined pastes are manufactured and tested for its initial setting time and final setting time of modified binder. And also the slump cone and flow Table test for fresh concrete and hardened high-performance Concrete compressive, split tensile and flexural strengths have been conducted. The results show that the properties of modified binder and both fresh and hardened high-performance concrete highly influenced by the percentage of FGFA and SF replacement. This study shows that the influence of the combination of FGFA and SF and the higher strength gains was observed at the initial and later ages of both modified mortar and high-performance Concrete and compared with Control Specimen (CS).

Introduction

The main ingredient in the conventional concrete is Portland cement the process that is being used in the construction industry for the production of cement releases large traces of carbon dioxide which leads to a rise in atmospheric temperature. Because of unsustainable, the process of cement production by reduces the natural resources limestone. To resist the production of cement, to initiate innovative construction binding materials. The innovative pozzolanic materials such as silica fume and fly ash. By the introduction of Pozzolonic material as a partial replacement to the cement reduces the uncontrolled usage of cement and enhance the planned management of resources and by-products from various industries. The major



Characteristics of granite dust concrete with M-sand as replacement of fine aggregate composites

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Abstract

Concrete is the most widely used man-made material in existence. It is second to water as the most-consumed resource on the planet. But, while cement as it is the key ingredient in concrete which has shaped much of our built environment, it also has a massive carbon footprint which leads to emission of greenhouse gases. Granite dust is eco-friendly to the nature and used as an innovative alternative to cement which can be a part of developing high strength concrete. Due to quick growth in the structural industry the necessity for the sand is increased broadly, causing deficiency of suitable river sand. The main aim of this paper is to strengthen the concrete with the fractional replacement of cement by granite dust and replacing the river sand with manufactured sand. The current study is carried out by fractional replacement of cement with granite dust in varying proportions of 0%, 5%, 10%, 15%, and 20% by weight of the cement and fine aggregate is replaced with 50% of manufactured sand for M30 grade of concrete. The specimens of cubes, prisms and cylinders are cast to test for each proportion. The hardened concrete tests such as compressive strength, split tensile strength, flexural strength are conducted. The samples are tested at 7 and 28 days age of concrete. It has been observed that the concrete strength enhances significantly after the use of granite dust.

Introduction

Concrete is the utmost used material which is broadly used in the field of construction all over the world. Construction materials are becoming expensive due to lack of presence of raw materials to reduce the quantity of unused going to dump yards, can be used as fractional replacement to cement that decrease the requirement of cement and the demand for waste can be increase. [1], [2], [3], [4]. The need of natural sand

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assessment

Materials properties, Welding, Chemical elements, Educational

Topics

Aluminum 6061-T6 alloy of thickness 3mm is friction welded by this experimental examination. The rotational speed of the tool is varied like 560, 900, and 1400rpm. The feed is selected as 20, 63, and 100mm/min. The tilt angle is kept at 0 degree. The welded joints are produced by taking different welding angle such as 0-, 30- and 60- degrees. The tool steel pin having a circular and hexagonal profile is used to produce the welded joints. The tensile samples are extricated from the welded specimens and followed for the testing. The maximum tensile strength is observed like 213MPa, 256MPa, and 200MPa at 0-, 30-, and 60-degrees welding angles respectively with the use of a circular profiled probe. The highest tensile strength has arrived like 191MPa, 207MPa, and 212MPa at 0-, 30-, and 60-degrees welding angles respectively with the use of a hexagonal profiled probe. The weld strength is observed superior at the lower rotating speed of the tool but welding travel time is observed to be more. The improvement in hardness value is observed in relevance with the increase in tool rotating speed. The welding process is noticed to be productive and qualitative for the welding of aluminum and can be used for various industrial applications.

+ Author & Article Information
AIP Conf. Proc. 2358, 090006 (2021)
<https://doi.org/10.1063/5.0058961>

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D. Maneiah ; Debashis Mishra; A. Praveen Kumar; M. Shunmugasundaram; L. Mangesh

Effect of welding angle on strength of friction welded aluminum 6061-T6 alloy welded joints

RESEARCH ARTICLE | JULY 30 2021

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Square Hollow Steel (SHS) tubular sections have wide range of structural applications comprise of strength and ductility and therefore they are successfully performed in seismic regions. However they failed due to additional loads, faulty design and construction, severe environmental situation and corrosion. FRP technology provides better solution for the above mentioned problems compared to traditional methods. This paper presents the SHS tubular sections externally wrapped with CFRP sheets and subjected by axial crushing. Width and spacing of strips are kept constant and number of layers can be varied as one, two and three. After the crushing test, results were compared with one another and the wrapped specimen. Finally, failure pattern, stress-strain curve, axial crushing strength, load vs deformation curve and ductility were found from the test results and also suggested the optimum usage of CFRP strips for SHS strengthening.

Abstract

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Sivasankar Sandrasekaran · N.K. Amudhavalli · A.Praveen Kumar · Manoharan Shunmugasundaram

DOI: 10.1016/j.matpr.2020.02.173

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Crushing strength of square hollow steel tubular sections externally jacketed by carbon fibre reinforced polymer strips

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Amritha

Public Full-text

The impact of different variables, namely thermal conductivity ratio of solid to porous the radiation parameter and Rayleigh number, is investigated in a cavity being fixed with porous medium that contains a solid material. The solid material which is having square geometry is made to occupy the central position in the cavity. The conjugate heat transfer coupled with mass transfer is analyzed because of the presence of solid in the domain. The left surface of the cavity is forced to have the highest temperature as well as concentration as compared to the right surface that has the lowest temperature and concentration. The energy transport across the solid takes place due to conjugate effect, whereas convection also takes place in the porous domain. Finite element method based on simple triangular element with a node at each of three corners is employed to get the solution of equations across the medium.

Abstract

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In book: Advances in Lightweight Materials and Structures

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Conjugate Heat and Mass Transfer Due to Solid Block in Porous Material

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Advances in Lightweight Materials and Structures pp 817-827

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A Discrete Artificial Immune System Algorithm for the Lot Streaming Flow Shop Scheduling Problem

R. Kamalakannan , M. Shunmugasundaram, R. Nagaraj, D. Aravindhan & S. Mohammed Thouffiq

Conference paper | First Online: 14 October 2020

816 Accesses

Part of the Springer Proceedings in Materials book series (SPM, volume 8)

Abstract

This paper attempts to present the challenge of scheduling n jobs- m machines in the flow shop scheduling environment. In this scheduling, lot streaming is a method used to divide up multiple sublots to allow functions to intersect across multiple production systems. The purpose of this work is to reduce the time and save the manufacturing cost. In recent times, researchers have used bright heuristics to explain flow shop difficulties on a lot streaming problem. In this work, artificial immune system (AIS) algorithm is used to solve the lot streaming

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Speech Recognition to Build Context: A Survey

Mar 2020

DOI: 10.1109/ICSEEA49143.2020.9132848

Conference: 2020 International Conference on Computer Science, Engineering and Applications (ICSEEA)

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Abstract and figures

In era Computer evolution many problems can be solved using computer vision and signal processing. These domains are typically digitized in binary files like images, Audio, and Videos. The translation, recognition and synthesis are required while understating the meaning of the binary content. The recognition process is also having many problems in case of audio processing. The missing context is the major reason in pattern-based matching. This is due to unclear or low-quality input, as well as training model on different frequencies but by using context some of the accuracy may improve. Context finding from binary files is a challenge as it works in temporal and space domain. Binary data like images contain special information, while audio files contain temporal information. Video files have both time and space domains. Updating context in the temporal domain, to find proper context from the audio corpus, speech recognition is applied. Over the time period, there are different models adapted like Hidden Markov Model (HMM), Rule Based models with fuzzy support, pattern-based models including machine learning techniques K-nearest neighbor, Support Vector Machine, also latest techniques like Artificial Neural Network (ANN). These technologies are typically included in Automatic Speech Recognition (ASR). ASR uses Language resources with any one of the above models. Here, an in-depth survey on ASR and available APIs. Technologies used to build APIs also discussed.

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Intelligent System Design pp 407-415

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Efficient Lossy Audio Compression Using Vector Quantization (ELAC-VQ)

Vinayak Jagtap, K. Srujan Raju, M. V. Rathnamma & J. Sasi

Kiran

Conference paper | First Online: 11 August 2020

684 Accesses

Part of the *Advances in Intelligent Systems and Computing* book series (AISC, volume 1171)


Abstract


Compression is the technique for effective utilization of space in servers as well as in personal computers. Most significantly, being multimedia compression. In this paper, the focus is on the audio compression method. Audio compression method has two types: lossy and lossless compression. Vector quantization is an effective way of lossy compression technique. The important tasks in vector quantization are codebook generation and searching. Simple Codebook generation algorithm is used which enhances the compression process. The proposed method is Efficient Lossy Audio Compression

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Design and analysis of two dimensional electromagnetic band gap antenna for WiFi applications

B. Premalatha ; G. Srikanth; P. Raveendra Babu; Mahesh V. Sonth

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AIP Conf. Proc. 2358, 090005 (2021)

<https://doi.org/10.1063/5.0058623>


The prime focus of the paper is to design and simulate a rectangular micro strip patch antenna with inset feeding used for WiFi applications. The two dimensional (2D) Electromagnetic band gap structures (EBG) are proposed in the ground plane to get more gain and bandwidth. The effect of various shapes of EBG structures on the performance of the antenna is studied. Circular, hexagonal and triangular two dimensional EBG structures are placed on the ground plane in order to reduce the surface waves. First, a rectangular micro strip antenna is designed and simulated by taking the resonant frequency of 5.2 GHz. Simulations are carried out by placing different EBG structures in the ground plane and the behavior of the antenna is studied. Simulations are carried out using High Frequency structure Simulator (HFSS) software. The performance parameters like return losses, bandwidth radiation pattern and gain are measured. The band width and gain of the antenna units using EBG structures has increased considerably by placing hexagonal and triangle shaped EBG and the results are reported.

Topics

Electronic band structure, Computational electromagnetics, Surface waves, Telecommunications

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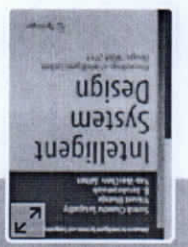
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Sequential Pattern Mining for the U.S. Presidential Elections Using Google Cloud Platform (GCP)

M. Varaprasad Rao , B. Kavitha Rani, K. Srinivas & G. Madhukar

Conference paper | First Online: 11 August 2020

671 Accesses

Part of the *Advances in Intelligent Systems and Computing* book series (AISC, volume 1171)

Abstract

All traditional growth-based pattern methods for sequential pattern mining can result recursively with length $(k + 1)$ models on the basis of the given long- k pattern databases. In $\log_2(k + 1)$ recursion rates at best, you can detect a length- k pattern which leads to fewer recursion rates and quicker pattern development. Here we suggested a cloud-based strategy in the minimum moment and precision to obtain patterns. On the basis of the U.S. presidential candidate donations, the suggested method is implemented. These patterns are easily

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for dehazed images.

A novel statistical metric measurement approach for the evaluation of enhancement of hazy images. Metric measurement plays a critical role in picture enhancement in hazy weather conditions and leads to a lessening in pixel resolution, a distortion in color, and gray images. In this paper hazy and foggy images are considered for evaluation using contrast-to-noise ratio (CNR) which dehazes the original hazy images. We propose a unique novel effective parameter based on an image filtering approach. The results demonstrated show a better CNR for dehazed images.


Abstract

(LNEE, volume 500)

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Conference paper | First Online: 01 September 2018

I. Saikumar , K. Srujan Raju, K. Srinivas & M. Varaprasad Rao

Statistical Metric Measurement Approach for Hazy Images

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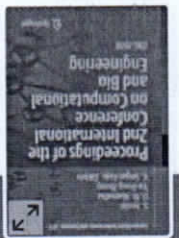
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Text Summarization of Multiple Documents Using Binary Fruit Fly Optimization Algorithm

Text Summarization of Multiple Documents Using Binary Fruit Fly Optimization Algorithm

Kishore Kumar Mamidala & Suresh Kumar Sanampudi

Conference paper | First Online: 28 September 2021

305 Accesses

Part of the [Lecture Notes in Networks and Systems](#) book series (LNNNS, volume 215)

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Due to the availability of huge data on the Internet, it becomes a time-consuming process for the user to find the most relevant text related to their interesting topic. This process can be simplified by text summarization. Initially, a set of multiple documents are preprocessed separately. Later, word frequency and the similarity of the sentences from every preprocessed document are calculated and then most redundant sentences are eliminated. Next, the content from these multiple preprocessed document is merged into a single input

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