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Vijayapur

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- IPR

Calendar year	2022	2021	2020	2019	2018
No. of Patents Published	01	02	01	-	02
No. of Patents Granted	-	-	-	01	

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- Funded Projects

Sl.No	Principal Researcher	Project title	Scheme
1	Dr. M. I. Sakri	Setting up of Noise and Vibration Engineering Laboratory	VGST (K-FIST Level-I)
2	Dr. Pushpa B. Patil	Big data Analytics Laboratory	VGST (K-FIST Level-I),
3	Dr.B.CMelinamath	Speech and Image Processing	VGST (FDP)
4	Mrs. Sujata S. Desai	Denoising and retrieval of document images	VGST (RFTT),
5	Mrs. Suvrana L. Kattimani	Automatic Highlights extraction in cricket based on video event detection	VGST (RFTT),
6	Dr. M. S. Shirdhonkar	Document Image Retrieval system	VGST (RFTT),
7	Dr. R. G. Tikotkar	Establishing Tribology Laboratory	VGST (K-FIST L1)
8	Dr. (Smt) G. V. Patil	Self-Sustained Hybrid Energy Management System Using Wind Turbine and Solar Aero Generator	VGST (RFTT),

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● Funded Projects

Sl.No	Principal Researcher	Project title	Scheme
9	Dr. Shobha Savanur	“Design and Implementation of Hardware accelerators & Protocol on FPGA”	VGST (FDP)
10	Prof. Sunanda Biradar	Android based abnormality detection system of kidney in medical images	VGST (RGS/F),
11	Sumangala Biradar	Secure e-health system using DNA Cryptography	VGST (RGS/F),
12	Dr. S. N. Das	Electrochemical Analysis of Biologically Active compounds by using Assimilated Sensor Electrodes	VGST (K-FIST Level-I),
13	Dr. P. V. Malaji	Vibration Energy Harvesting and IOT Lab	VGST (KFIST/L2),
14	Dr. K. S. Chadchan	Green Synthesis of Chitosan Encapsulated Silver Nanoparticles to control Pigeon peawilt disease caused by Fuserium Oxysporum	VGST (RGS/F),
15	Dr. Shashikant Cholake	Numerical investigation of Turbulance flow trasnition in presence of radiating fluids	VGST (RGS/F),

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- AICTE Projects

Sl.No	Principal Researcher	Project title	Scheme
1	Establishment of the Advanced Internal Combustion Engines Laboratories	Dr. Ramesh Jeeragal	AICTE (MODROB)
2	Short Term Training Programme	Dr. BasavarajAngadi	AICTE (STTP)
3	Modernization of Energy Conversion Engineering Lab	Prof. S. B. Koulagi	AICTE (MODROB) New Delhi
4	Computerized single cylinder four stroke diesel engine test rig	Dr. V. V. Katti	AICTE (MODROB) New Delhi
5	Advanced Network Laboratory	Dr. Pushpa B. Patil	All India Council for Technical Education (AICTE) MODROB
6	Short Term Training Programme	Ms. AnuradhaTankasali	AICTE (STTP)
7	MODROB-Structural Engineering Laboratory	Prof. R. G. Talasadar	AICTE, New Delhi

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- AICTE Projects

Sl.No	Principal Researcher	Project title	Scheme
8	MODROB-Structural Engineering Laboratory	Dr. S. J. Arwikaar	AICTE, New Delhi
9	MODROB-Hydraulics Laboratory	Dr. V. P. Huggi	AICTE, New Delhi
10	MODROB-Environmental Engineering Laboratory	Prof. (Smt) A. S. Arwikaar	AICTE, New Delhi
11	MODROB-Surveying Laboratory	Prof.(Smt) S. S. Angadi	AICTE, New Delhi
12	MODROB-Structural Engineering Laboratory	Prof. R. G. Talasadar	AICTE, New Delhi
13	Two Week FDP on “Applications of MATLAB/SIMULINK in Control & Power System Engineering”	Dr. (Smt) Shobha R. Savanur	AICTE (FDP), New Delhi

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- **Highest Citations from Jan 2022 to till date**

Sl. No.	Faculty Name	Citations
01	Dr. S. N. Das (Chem)	245
02	Dr. R. S. Malladi (Chem)	218

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- **Highest Journal Publications from Jan 2022 to till date.**

Sl. No.	Faculty Name	Number of journal paper published
01	Dr. A. A. Zende	04
02	Dr. P. V. Malaji	03
03	Dr. M. Y. Dhange	03

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- Most Cited Articles

Article	Author	No of Citations Received
Nickel, its adverse health effects & oxidative stress	Das K.K., Das S.N., Dhundasi S.A.	456
Primary concept of nickel toxicity - An overview	Das K.K., Reddy R.C., Bagoji I.B., Das S., Bagali S., Mullur L., Khodnapur J.P., Biradar M.S.	158
Electrochemical detection and degradation of textile dye Congo red at graphene oxide modified electrode	Shetti N.P., Malode S.J., Malladi R.S., Nargund S.L., Shukla S.S., Aminabhavi T.M.	130
Fabrication of ZnO nanoparticles modified sensor for electrochemical oxidation of methdilazine	Shetti N.P., Malode S.J., Nayak D.S., Bagihalli G.B., Kalanur S.S., Malladi R.S., Reddy C.V., Aminabhavi T.M., Reddy K.R.	108
Novel ruthenium doped TiO ₂ /reduced graphene oxide hybrid as highly selective sensor for the determination of ambroxol	Bukkitgar S.D., Shetti N.P., Malladi R.S., Reddy K.R., Kalanur S.S., Aminabhavi T.M.	70

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- Quality Research Publication in Q1 Journals.

Sl. No.	Name of the Faculty/ Research Scholar/Dept	Title of the paper	Journal Name
01	Dr. R. M. Math (ECE)	Deep learning and computer vision for leaf miner infestation severity detection on muskmelon (<i>Cucumis melo</i>) leaves	Computers and Electrical Engineering
02	Dr. U. D. Dixit (ECE)	Automatic logo detection from document image using HOG features	Multimedia tools and applications
03	Dr. R. S. Patil (ECE)	A new automated segmentation and classification of mammogram images	Multimedia tools and applications
04	Dr. A. A. Momin (CVE)	Investigating the Flexural Behavior of a Two-Span High-Performance Concrete Beam Using Experimentally Derived Stress Block Parameters	ACS Omega
05	Dr. A. A. Zende	Mechanical Properties of High-Strength Self-Compacting Concrete	ACS Omega
06	Rajam CV	Thermal and vibration analysis of CI engine using diesel and waste cooking oil biodiesel blends	Applied Thermal Engineering
07	Dr. M. Y. Dhange	<ol style="list-style-type: none"> 1. A mathematical model of blood flow in a stenosed artery with post- stenotic dilatation and a forced field 2. Modeling of blood flow with stenosis and dilatation 	<p>1.PLOS ONE</p> <p>2.Mathematics and Mechanics of complex system</p>
08	Dr. K. S. Chadchan (Chem) and Dr. S. N. Das	Simultaneous sensing of mesalazine and folic acid at poly (murexide) modified glassy carbon electrode surface	Materials Chemistry and Physics

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- No. of Publications and Citations

Year	No of Publications	No of Citation Received
2022	51	651
2021	46	446
2020	59	397
2019	33	259
2018	30	643
	219	2396

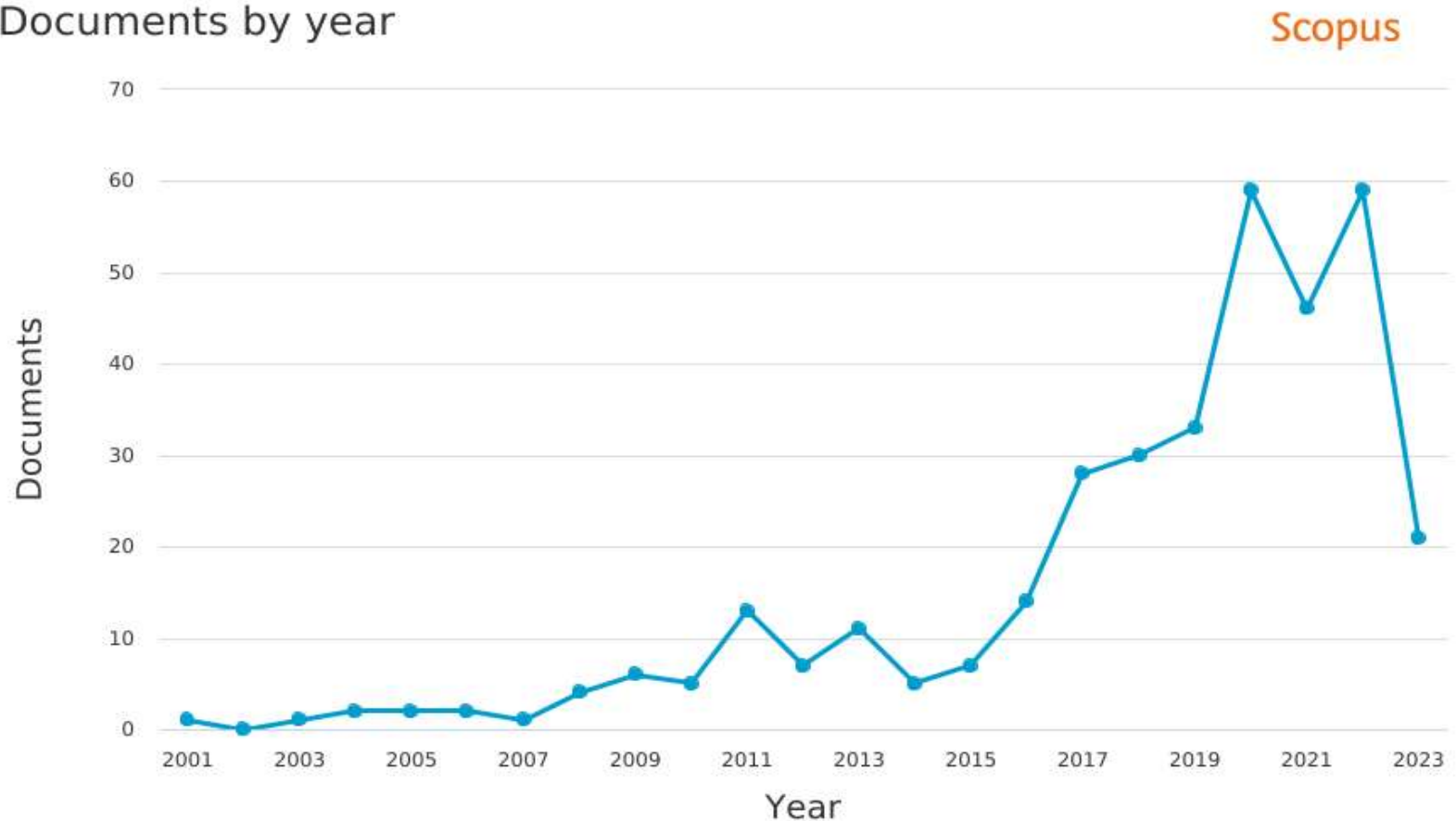
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- Most Prolific Authors

Author	No of Publications
Das, S.N.	26
Patil, P.B.	20
Shirdhonkar, M.S.	16
Jadhav, A.S.	15
Malaji, P.V.	13
Dixit, U.D.	12
Malladi, R.S.	12
Sankad, G.C.	12
Zende, A.A.	11
Chadchan, K.S.	10
Dhange, M.	10

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Documents by year



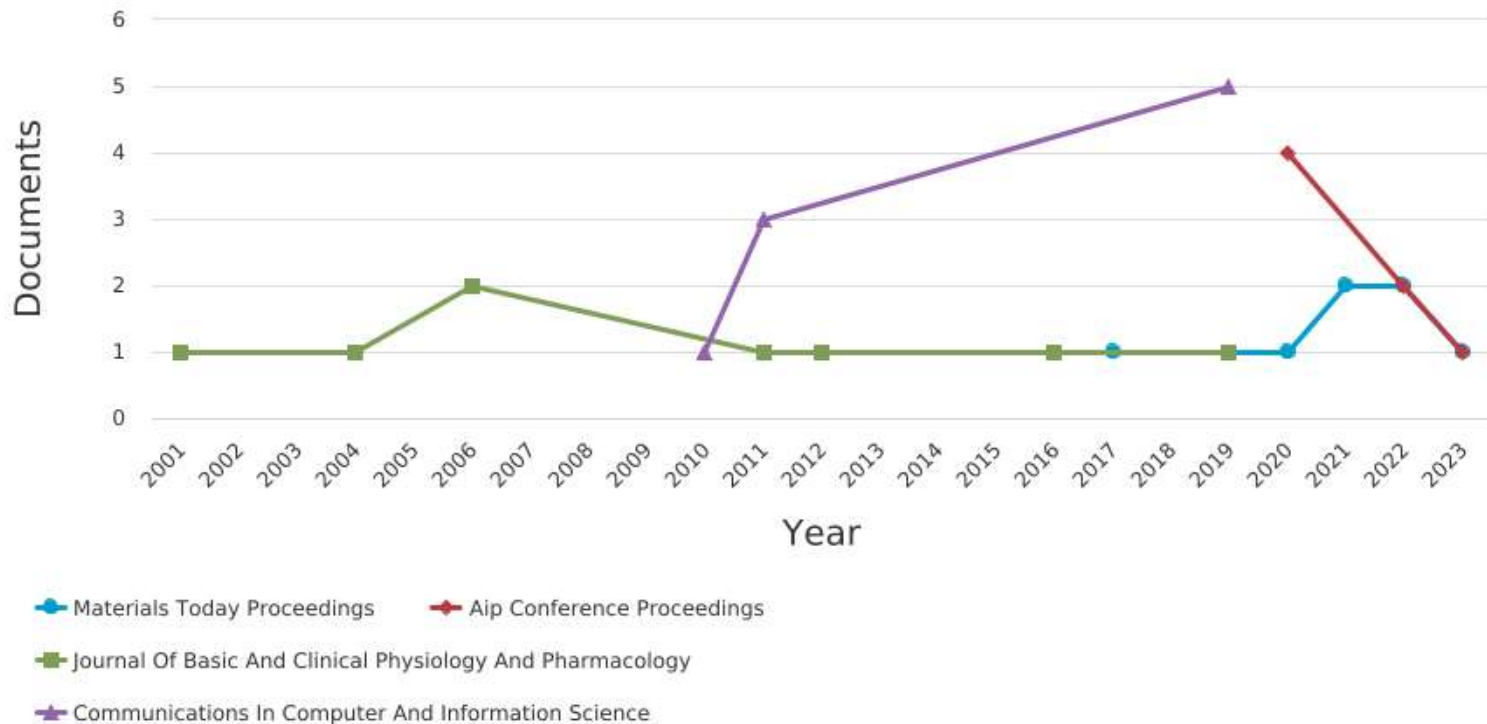
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Documents per year by source

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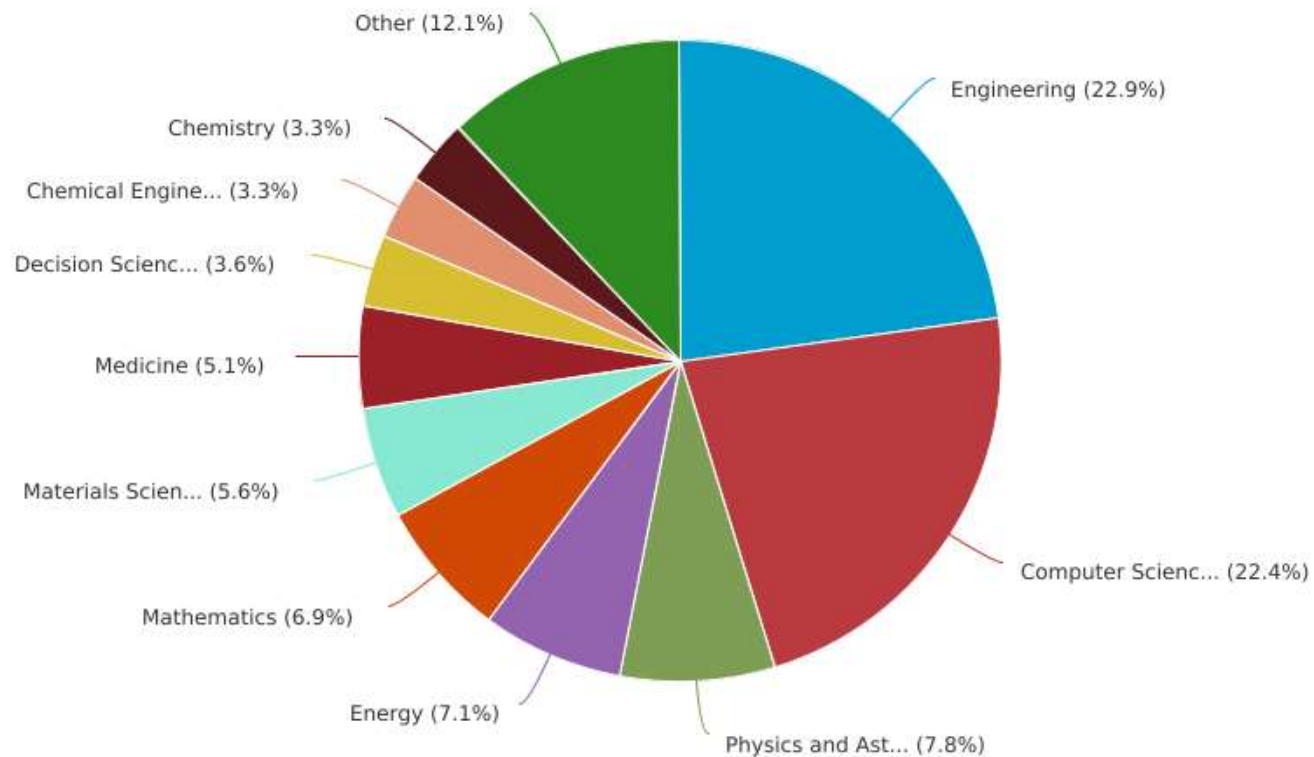
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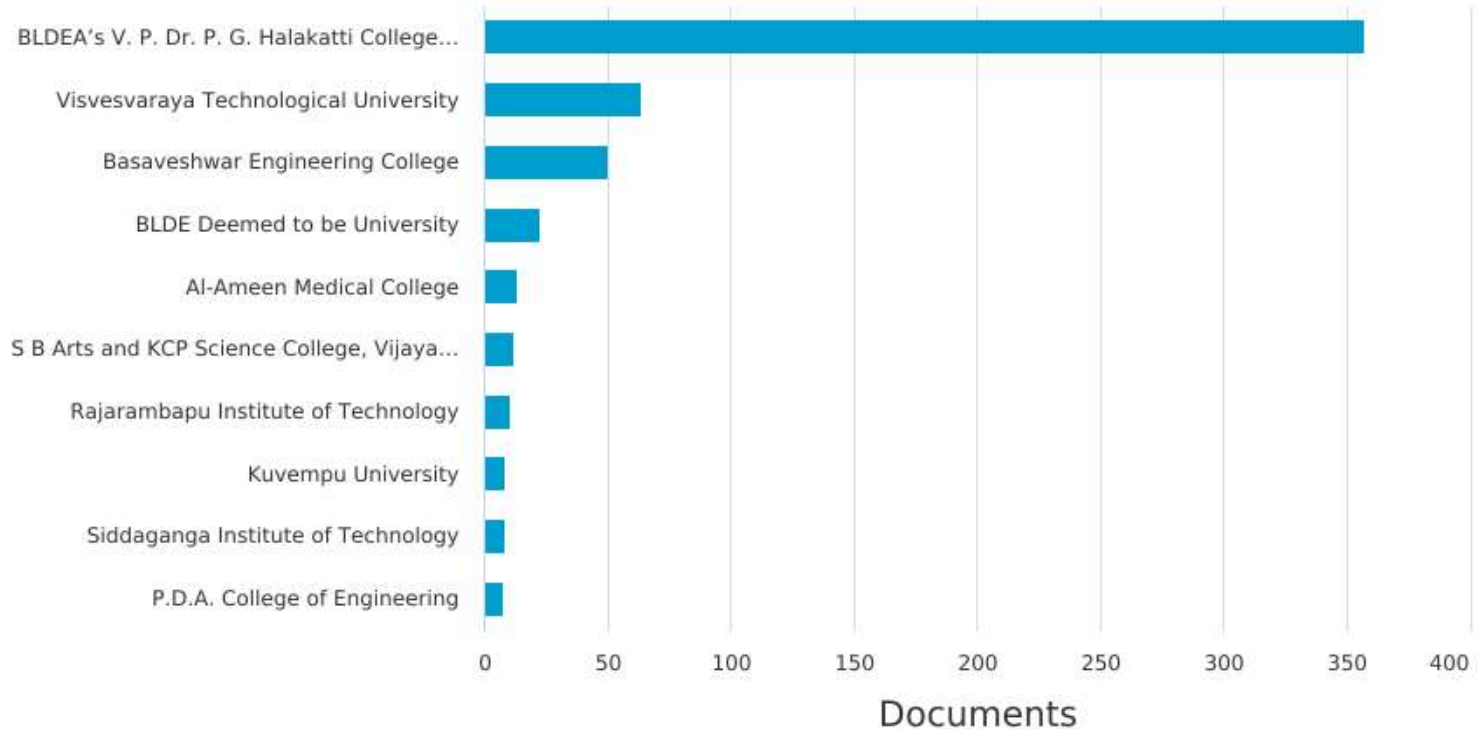
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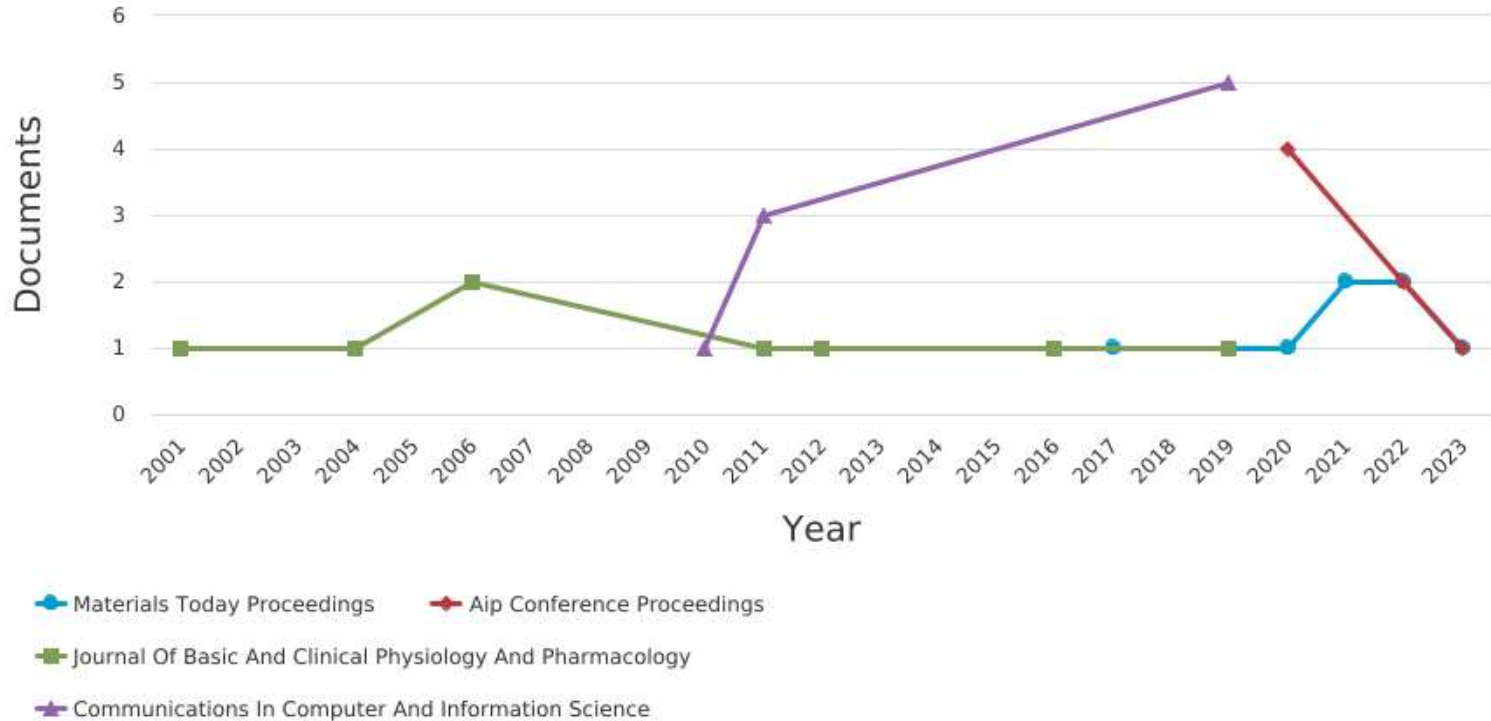
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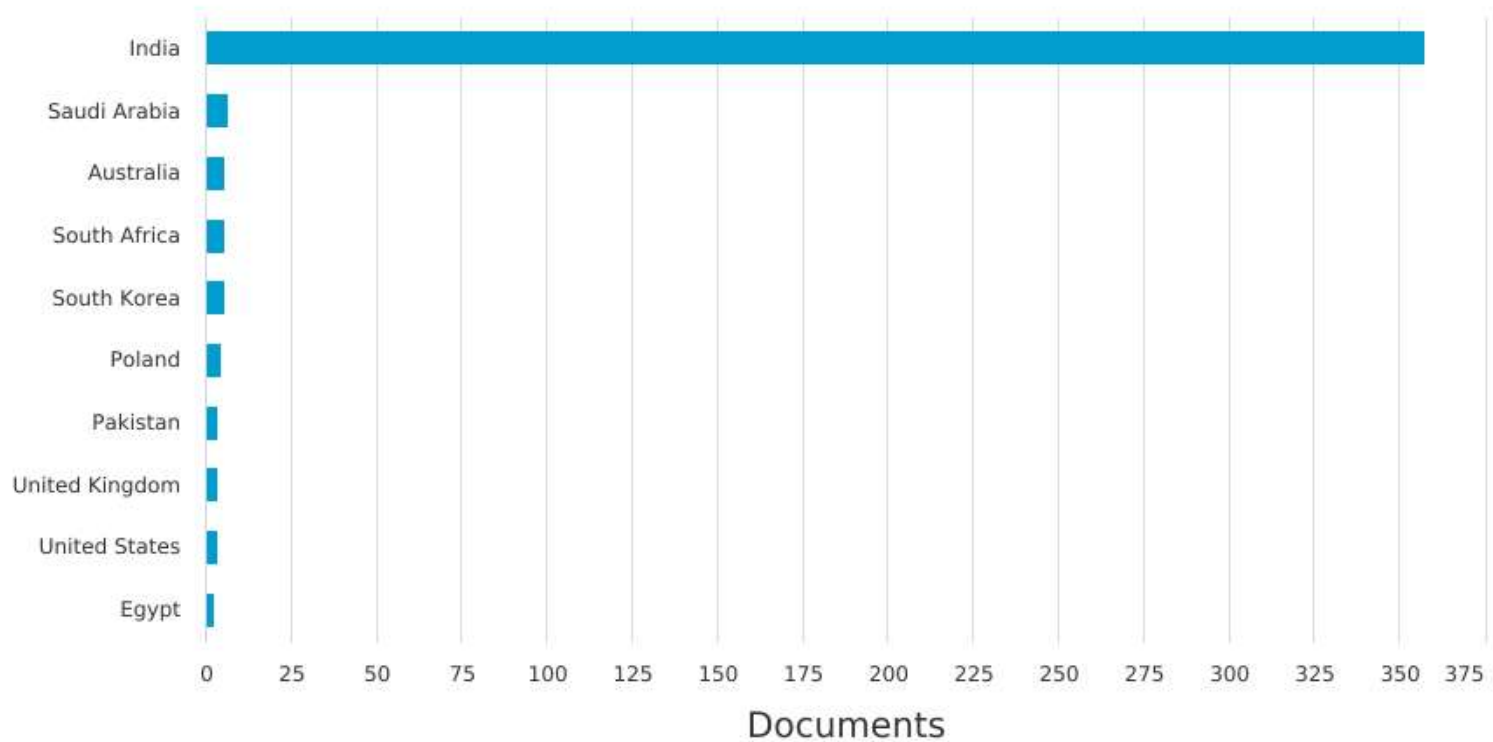


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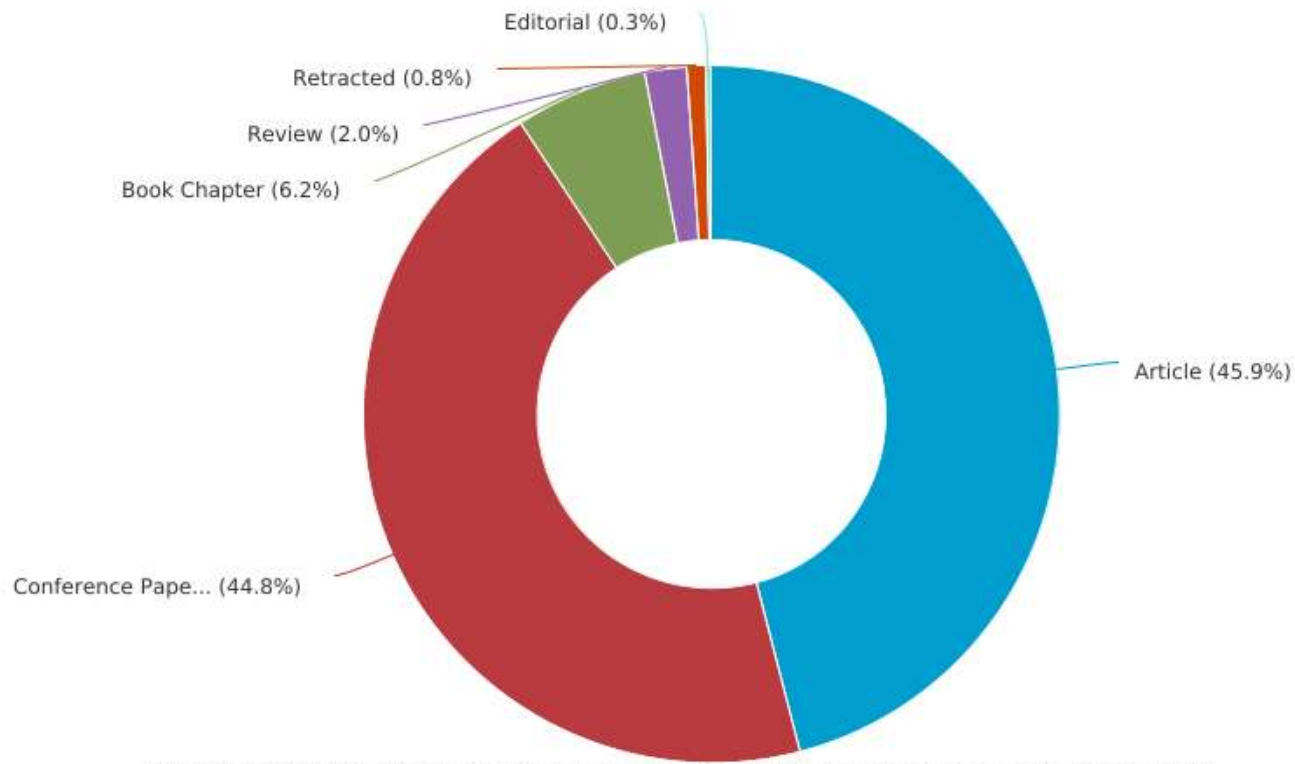


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Documents by type

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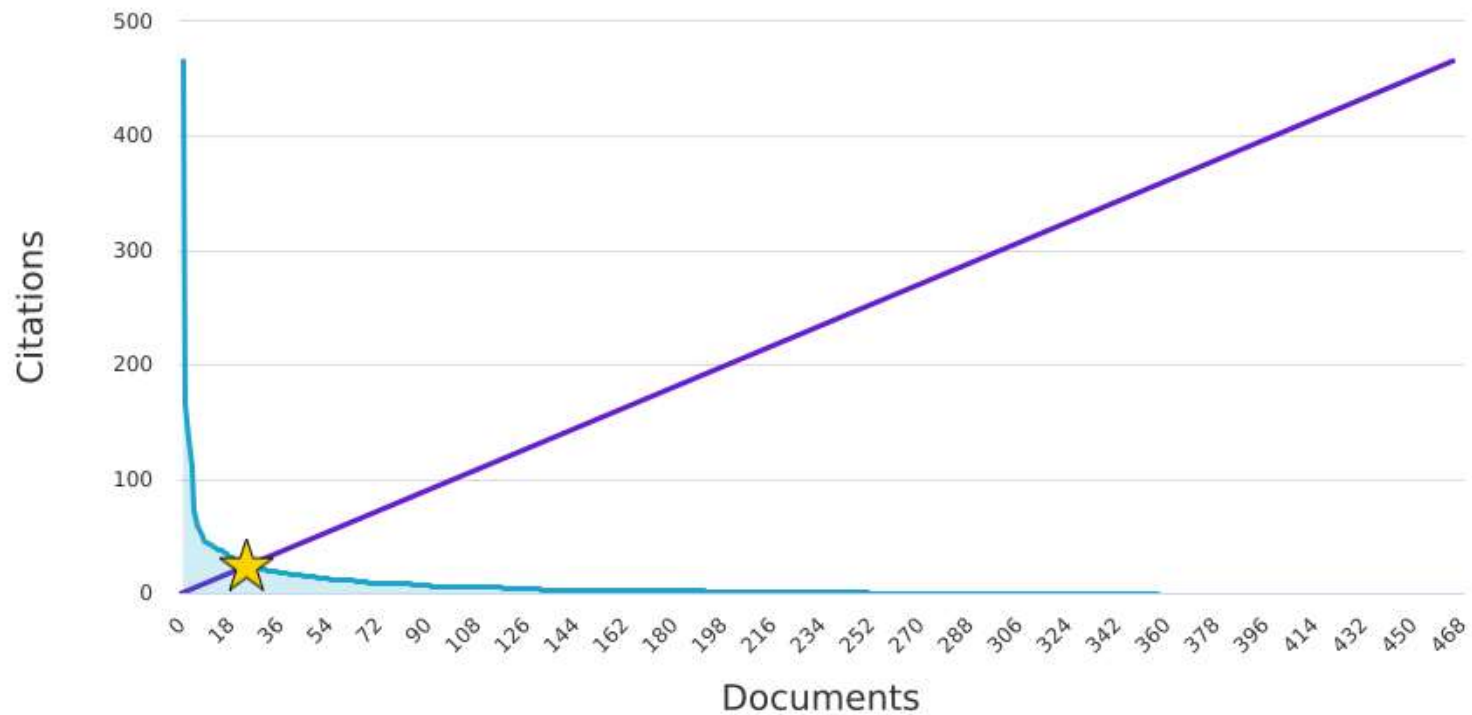
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Computers and Electrical Engineering




Volume 110, September 2023, 108843



Deep learning and computer vision for leaf miner infestation severity detection on muskmelon (*Cucumis melo*) leaves ☆

rajinderkumar M. Math^a  , Nagaraj V. Dharwadkar^b 

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<https://doi.org/10.1016/j.compeleceng.2023.108843> 

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Abstract

Crop protection against pests is known to play a crucial role in developing efficient crop management strategies for Precision Agriculture. A recent estimation by Food and Agriculture Organization (FAO) shows that the perennial loss due to crop pests and diseases amounts to nearly 40% of agricultural crop production at a global level.

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Applied Thermal Engineering

Volume 231, August 2023, 120949





Research Paper

Thermal and vibration analysis of CI engine using diesel and waste cooking oil biodiesel blends

[Cheekoti Venkata Rajam](#)^a  , [Geetanjali V. Patil](#)^b, [Mahadev I. Sakri](#)^b, [Ramesh N. Jeeragal](#)^b, [M. Adimurthy](#)^c

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<https://doi.org/10.1016/j.applthermaleng.2023.120949> 

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RESEARCH-ARTICLE



Quest for Speech Enhancement Method in the Analysis of Pathological Voices

Authors:  [G. B. Gour](#),  [V. Udayashankara](#),  [Dinesh K. Badakh](#),  [Yogesh A. Kulkarni](#) [Authors Info & Claims](#)

Circuits, Systems, and Signal Processing, Volume 42, Issue 6 • Jun 2023 • pp 3617–3648 • <https://doi.org/10.1007/s00034-022-02286-y>

Published: 12 January 2023 [Publication History](#)

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PLOS ONE

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RESEARCH ARTICLE

A mathematical model of blood flow in a stenosed artery with post-stenotic dilatation and a forced field

Mallinath Dhange, Gurunath Sankad, Rabia Safdar, Wasim Jamshed, Mohamed R. Eid , Umesh Bhujakkanavar, Soumaya Gouadria, R. Chouikh

Published: July 1, 2022 • <https://doi.org/10.1371/journal.pone.0266727>

Article

Authors

Metrics

Comments

Media Coverage

Abstract

1. Introduction
2. Formulation and solution of mathematical solution of mathematical

Abstract

Arterial stenosis is a common cardiovascular disease that restricts blood flow. A stenotic blood vessel creates tangent stress pressure, which lessens the arterial side and causes an aneurysm. The primary purpose of this study is to investigate blood flowing via an inclination aneurysm. The primary purpose of this study is to investigate blood flowing via an inclination

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Multimedia Tools and Applications (2022) 81:7783–7816
<https://doi.org/10.1007/s11042-022-11932-1>



A new automated segmentation and classification of mammogram images

Rajeshwari S. Patil, et al. *[full author details at the end of the article]*

Received: 19 July 2021 / Revised: 18 November 2021 / Accepted: 3 January 2022 /
Published online: 28 January 2022

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Abstract

Early-stage recognition of lesions is the better probable manner for fighting against breast cancer to find a disease with the highest ratio of malignancy around women. Existing approaches are generally based on deep learning that has been designed for the segmentation of tumors, however, it is complex because of the false positives and the inaccurate detection of boundaries for segmentation, as the existing models incorrectly predict the positive classes, thus affecting the overall classification. In this paper, an enhanced mammogram image classification is proposed by introducing novel segmentation and classification approaches. The initial process of the proposed model is pre-processing, which is performed by the median filtering that tends to remove the noise from the images. The preprocessed images are subjected to segment the tumor from the mammogram images by a new segmentation approach termed Region growing with Adaptive Fuzzy C-Means Clustering (RG-AFCM). Once the segmentation of the tumor is done, feature extraction is performed, where the features are extracted using Gray-Level Run-Length Matrix (GLRM) and Grey Level Co-occurrence Matrix (GLCM) approaches. Furthermore, the extracted features are classified using optimal trained Recurrent Neural Networks (RNN). Here, a new algorithm named Average Fitness New Updating-based Grasshopper Optimization Algorithm (AFNUGOA) is proposed for enhancing both the segmentation and classification

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Investigating the Flexural Behavior of a Two-Span High-Performance Concrete Beam Using Experimentally Derived Stress Block Parameters

Asif Iqbal A. Momin*, Aljez Ahmad Zende*, Rajesab B. Khadiraikar, Abdullah H. Alsabhan, Shamshad Alam, Mohammad Amir Khan, and Mohammad Cbaid Qamar

Cite this: *ACS Omega* 2023, 8, 20, 17992–17999

Publication Date: May 9, 2023

<https://doi.org/10.1021/acsomega.3c01197>

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SUBJECTS: Cells, Chemical structure, Compression, Deformation, Stress

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Materials Chemistry and Physics




Volume 290, 15 October 2022, 126538




Simultaneous sensing of mesalazine and folic acid at poly (murexide) modified glassy carbon electrode surface

[Kailash S. Chadchan](#)^{a 1}, [Amit B. Teradale](#)^{b 1}, [Pattan S. Ganesh](#)^c, [Swastika N. Das](#)^a  

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<https://doi.org/10.1016/j.matchemphys.2022.126538> 

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Abstract

The electro analytical determination of Mesalazine (MSZ) and Folic acid (FA) were done using a murexide-based sensor developed on a glassy carbon electrode. Electro

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MATHEMATICS AND MECHANICS *of* Complex Systems

Vol. 10, No. 2, 2022

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Recent Issues

Volume 10, Issue 4

Volume 10, Issue 3

Volume 10, Issue 2

Volume 10, Issue 1

Volume 9, Issue 4

Modeling of blood flow with stenosis and dilatation

Mallinath Dhange, Gurunath Sankad and Umesh Bhujakkanavar

Vol. 10 (2022), No. 2, 155–169

DOI: 10.2140/memocs.2022.10.155

Abstract

The stenosis of an artery lowers blood flow in the artery. This stenosed artery induces tangential pressure stress, which weakens the arterial wall and leads to dilatation or aneurysm. This article examines blood flow through an inclined tube with stenosis and expansion after stenosis (dilation) under the effect of a steady incompressible Casson fluid flow. The mechanically regulated stenosis formation and post-stenotic dilatation in blood vessels were studied by using a mild stenosis approximation and appropriate boundary conditions.

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Multimedia Tools and Applications (2023) 82:863–878
<https://doi.org/10.1007/s11042-022-13300-5>



Automatic logo detection from document image using HOG features

Umesh D. Dixit¹  • M. S. Shirdhonkar² • G. R. Sinha³

Received: 13 April 2021 / Revised: 17 February 2022 / Accepted: 30 May 2022 /
Published online: 10 June 2022

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Abstract

Document image analysis and processing has drawn the attention of many researchers due to its real-time applications in day-to-day life. Document database comprising of logo provides a good opportunity for an easier way of indexing, searching and retrieval of the documents. Logo detection is an essential need for the implementation of any logo-based document indexing or retrieval techniques. This paper aims to develop an efficient logo detection method for document images. The major steps employed in the developed system include preprocessing of the input document, finding the connected components and classification of these components into the logo and non-logo candidates. The preprocessing step employs a median filter and a unique procedure for the removal of clutter noise to reduce the false detection rate. Histogram of Oriented Gradient (HOG) features and an SVM classifier are used to identify the logo and non-logo candidates of the document. The presented system is evaluated using Tobacco 800 dataset and the results are compared with existing techniques. The results show an improvement of 5% in

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Plagiarism Detection Tools



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The screenshot displays the BLDEACET Faculty Profiles website. The browser address bar shows the URL <https://bldeacet.iims.org>. The website header includes the BLDEACET logo, the text "BLDEA's V. P. Dr. P. G. Halakatti College of Engineering & Technology Faculty Profiles A Library Initiative", and navigation links for "HOME" and "LOGIN".

The main content area features several data-rich panels:

- Faculty / Scientist:** A summary card showing 180 total faculty/scientists, broken down into: Head of the Department (1), Professor (12), Associate Professor (19), and Assistant Professor (127).
- Scholarly Resources:** A summary card showing 647 Publications and 4 Patents. Publications are categorized by Open Access: 184 Closed Access, 29 Gold OA, 3 Bronze OA, and 2 Green OA. It also lists 307 Journal Articles and 256 Conference / In Proceedings.
- Resources Impact:** A summary card showing 1813 Citations and 1923 Citations.
- Departments:** A list of departments with counts: Artificial Intelligence and Machine Learning (4), Computer Science and Engineering (2), Department of Architecture (0), Department of Automobile Engineering (2), and Department of Chemistry (1).
- Top ten Profiles:** A profile for Dr. Ramesh S. Malladi, Assistant Professor - Selection Grade, with 21 Publications, 2 Projects, 516 Citations, and 551 Citations.
- Publications:** A preview of a publication titled "Primary concept of nickel toxicity - An overview..." by Kusal K Das, R Chandramouli Reddy, Ishwar B Bagoji, Swastika Das, Shrinani Bagali, Lata Mulur, Jyoti F Khodhapur, MS Binsard, with 133 Citations and 148 Citations.

The Windows taskbar at the bottom shows the system tray with the date and time: 10:03 AM, 16-06-2023.

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By P.G. Students and Research Scholars

WORKSHOP
"Plagiarism Detection Tool"
By Mr. Raghavendra R,
Head of BD, DriSEit SoftTech India Pvt. Ltd.

EXPERT TALK
"Research Funding Opportunities"
By Shri. S. K. Varshney,
Adviser/Scientist G,
Head International Relations
Department of Science and Technology,
Govt. of India, New Delhi.



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Venue: 
Seminar Hall, Library Building
Ground Floor
BLDEA's CET

"Research is the compass guiding humanity
through the uncharted waters of knowledge."
- Albert Einstein

FOR DETAILS CONTACT

Dr. R. S. Malladi,
Institute R & D Coordinator
-9480799101

Dr. M. M. Bachalapur,
Chief Librarian
9740016911

Registration link:
<https://forms.gle/ShDYAooqZgdcvWUyZjB>



Dr. P. V. Malaji
Vice Principal (R&D)

Dr. V. G. Sangam
Principal

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Thank You!!!