



**National Conference on Research Innovation in  
ICT and Computing Technologies (NCRIICT-2023)  
March 27-28, 2023  
Organized by  
SSESA's, Science College, Congress Nagar, Nagpur**



**Patron: 1. Hon'ble Shri Harshvardhan P. Deshmukh**

President, Shri Shivaji Education Society, Amravati.

**2. Hon'ble Prof. Subhash Chaudhari**

Vice Chancellor, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.

**3. Hon'ble Prof. Sanjay Dudhe**

Pro-Vice Chancellor, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.

**Local Organizing Committee:**

**Chairman:** Prof. M. P. Dhore, Principal

**Convener:** Prof. S. R. Pande

**Co-Convener:** Prof. R. N. Jugele

**Organizing Secretary:** Dr. A. A. Halder

**Joint Organizing Secretary:** Dr. J. K. Keche

**Treasurer:** Dr. S. R. Gedam

**Keynote Address:** Dr. Rajiv V. Dharaskar, Director, Indian Institute of Information Technology (IIIT), Kottayam, Kerala.

**Invited Talk:** 1. Prof. Manu Pratap Singh, Director, Institute of Engineering & Technology, Dr. Bhimrao Ambedkar University, Agra  
2. Ramesh Manza, Professor, Department of Computer Science and Information Technology, Dr. B.A.M. University, Aurangabad (MS)  
3. Prof. V. M. Thakare, Former Head, PGTD-CSE, Sant Gadge Baba Amravati University, Amravati.  
4. Dr. Swati Sherekar Professor & Director, IIL Department of Computer Science & Engineering, SGB Amravati University, Amravati.  
5. Dr. Sagar Jambhorkar Department of Computer Science National Defence Academy, Pune.  
6. Dr. S. B. Kishor Head, Dept. of Computer Science, SP Mahavidyalaya, Chandrapur

**Conference Date:** March 27-28, 2023

**Gist of the Conference:**

Two days national conference on “National Conference on Research innovations in ICT and computing Technologies (NCRIICT-2023)” was successfully organized by Department of Computer Science, Shri Shivaji Education Society Amravati's SCIENCE COLLEGE, Congress Nagar, on 27-28 March 2023.

In these two days, there were 01 key note, 06 invited talks, 08 technical session. We invited technical papers on domains like Image processing, Big data analytics, Machine learning, IoT, Network security, Cloud computing, Data Mining, Blockchain etc. A total of 252 papers were received from all over the country. The paper presentations were done parallelly in 4 venues under the panel of internal and external judges. All papers presented in the conference are also published in the conference proceeding

with an ISSN: 2394-8051 and also these papers will be published in the “Special Issue of Journal of Innovation in Sciences (Online)” A soft copy of the proceeding and participation certificate has been given to each participant.

The conference was inaugurated by Chief Guest, Hon’ble Prof. Subhash Chaudhari, Vice Chancellor RTMNU Nagpur, Guest of Honour Dr. Rajiv V. Dharaskar, Director, Indian Institute of Information Technology (IIIT), Kottayam, Kerala, Hon’ble Shri Hemant Kalmegh Executive Member Shri Shivaji Education Society Amravati, Hon’ble Prof. M. P. Dhore, Principal SSE’s Nagpur Prof. S. R. Pande, Convener of the conference, Prof. R. N. Jugele , Co-Convener of the conference and Dr. A. A. Halder, Organizing Secretary of the conference.

Various eminent scientists, Prof. Vinay Chavan Principal, S. K. Porwal College, Prof. Manu Pratap Singh Director, Institute of Engineering & Technology, Dr. Bhimrao Ambedkar University, Agra, Prof. Ramesh Manza Professor Department of Computer Science and Information Technology, Dr BAM University, Aurangabad , Prof. A. B. Sasankar, Dr. G. S. Katkar , Prof. Satish J. Sharma Professor and Head Department of Electronics and Computer Science, RTMNU Nagpur, Prof. V. M. Thakare EX PROF & HOD, Department of Computer Science. & Engg. SGB Amravati University, Amravati. Maharashtra, India, Dr. Sagar Jambhorkar Department of Computer Science National Defence Academy, Pune , Mr. Amit Kale Associate Vice President, Engineering, Global Logic, Nagpur , Dr. S. B. Kishor Head, Dept. of Computer Science, SP Mahavidyalaya, Chandrapur, Maharashtra, Dr. Mrs. A. S. Khandelwal, Dr. Ujjwal Lanjewar graced the event by their presence and Highly informative and brainstorming talk was delivered by an eminent scientist from different Universities .

All the technical sessions were highly informative and interactive. Students actively participated in the technical as well as oral sessions and cleared their doubts and queries. They were asked questions by the experts and other participants. Various suggestions were also made by experts to do better in their research work.

### Glimpses of NCRIICT-2023









Dr. Panjabrao Alias Bhausaheb Deshmukh's 125th Birth Anniversary Year  
Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur Centenary Year

*Invitation*

**Inaugural Function**

You are cordially invited for Inaugural function of  
**NATIONAL CONFERENCE**  
ON  
**RESEARCH INNOVATIONS IN ICT AND COMPUTING TECHNOLOGIES (NCRIICT-2023)**  
at the hands of  
**Chief Guest**  
**Hon'ble Prof. Subhash Chaudhari,**  
Vice Chancellor,  
Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur

**Guest of Honour and Key Note Speaker**  
**Dr. Rajiv V. Dharaskar**  
Director,  
Indian Institute of Information Technology (IIIT), Kottayam, Kerala

**Hon'ble Shri Hemant W. Kalmegh**  
Executive Member,  
Shri Shivaji Education Society, Amravati  
has kindly consented to preside over the function.  
Please grace the function with your presence.

March 27, 2023 Time : 10.30 A.M.  
Venue : Conference Hall, Science College, Congress Nagar, Nagpur

<b>Dr. A.A. Halder</b> Organizing Secretary NCRIICT-2023	<b>Prof. S.R. Pande</b> Convener NCRIICT-2023	<b>Prof. M.P. Dhore</b> Chairman NCRIICT-2023
--	---	---

**Department of Computer Science**  
Shri Shivaji Education Society, Amravati's  
**SCIENCE COLLEGE**  
Congress Nagar, Nagpur 440012

Dr. Panjabrao Alias Bhausaheb Deshmukh's 125th Birth Anniversary Year  
Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur Centenary Year

*Invitation*

**Valedictory Function**

You are cordially invited for Valedictory Function of  
**NATIONAL CONFERENCE**  
ON  
**RESEARCH INNOVATIONS IN ICT AND COMPUTING TECHNOLOGIES (NCRIICT-2023)**  
**Chief Guest**  
**Hon'ble Prof. Sanjay S Dudhe,**  
Pro-Vice Chancellor,  
Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur

**Guest of Honour**  
**Hon'ble Prof. Prashant Maheshwary**  
Dean, Faculty of Science & Technology,  
Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur

Please grace the function with your presence.

March 28, 2023 Time : 03.30 P.M.  
Venue : Conference Hall, Science College, Congress Nagar, Nagpur

<b>Dr. A.A. Halder</b> Organizing Secretary NCRIICT-2023	<b>Prof. S.R. Pande</b> Convener NCRIICT-2023	<b>Prof. M.P. Dhore</b> Chairman NCRIICT-2023
--	---	---

**Department of Computer Science**  
Shri Shivaji Education Society, Amravati's  
**SCIENCE COLLEGE**  
Congress Nagar, Nagpur 440012



### Advisory Committee

- Prof. K. V. Kale
- Prof. Rajiv V. Dhuraskar
- Prof. P. S. Avadhani
- Prof. R. V. Pawar
- Prof. V. M. Thakare
- Prof. Prashant Maheshwari
- Prof. Prakash Itankar
- Prof. P. K. Butay
- Dr. Mrs. A. Khandewal
- Prof. V. Jayanta Singh
- Prof. Shivanand Goreale
- Prof. Subhashchandra Yadav
- Prof. M. Sundarasan
- Prof. Devendra Tayal
- Prof. Manupratap Singh
- Prof. Prakash Khamale
- Prof. N. S. Kokode
- Prof. R. A. Mishra
- Prof. D. S. Dhote
- Prof. S. P. Yawale
- Prof. C. M. Jadhao
- Prof. N. B. Chupale
- Prof. R. R. Deshmukh
- Prof. S. N. Deshmukh
- Prof. Mrs. P. D. Deshmukh
- Prof. R. J. Ramteke
- Prof. Atul Gonsai
- Prof. T. Wasmadeva
- Prof. Somesh Kumar
- Prof. Rajesh R.
- Prof. Sumit Gill
- Prof. S. B. Thorat
- Prof. Santosh Khamthkar
- Prof. Mrs. S. S. Sherchkar
- Prof. Mohd. Atique
- Prof. S. R. Kalmegh
- Prof. R. R. Manra
- Prof. Bharti Gawali
- Prof. Ganesh Magar
- Prof. Ashok Gaikwad
- Prof. S. J. Sharma
- Prof. V. N. Chavhan
- Prof. P. R. Dabikar
- Prof. M. J. Hedau
- Prof. A. B. Mawar
- Prof. Srinivas Deshpande
- Prof. Ujjwal Janjwar
- Prof. Sankarsham Jena
- Prof. A. R. Saccanar
- Prof. V. M. Pendse
- Prof. K. P. Kulkar
- Dr. J. Durga Prasad Rao
- Dr. Vikas Humble
- Dr. Sagar Jambhorkar
- Dr. Sanjay Yede
- Dr. Parveen Singh
- Dr. Sujant Khan
- Dr. Ashok Sharma
- Dr. Saurav Shrivastava
- Dr. Ashutosh Gaur
- Dr. Rajiv Kumar Mente
- Dr. D. D. Suddhalwar
- Dr. Parag Bhalchandra

### Call for Papers

Papers are invited on the conference theme for oral and poster presentation. Papers must be submitted in the form of soft copy as an email attachment.

### Conference Publication

The e-proceedings containing full papers will be published at the time of conference.

### Instructions to Authors

- 1) Paper size: A4
- 2) Margins: Left 1.5", Right 1", Top 1", and Bottom 1"
- 3) Font style: Times New Roman, single spacing in Two columns
- 4) Font Size:
  - a) Title 14 (Bold)
  - b) Name of Authors and Affiliation 12
  - c) Sub Heading 12 (Bold)
  - d) Abstract 9 (Bold) (Max. 150 words)
  - e) Paper Text 11
  - f) References 10 (Sr. No., Name of authors starting with initials, Name of the Journal and Volume of the Journal).
- 5) Format: The paper should be typed in MS-Word document including all text, tables, figures, graphs, photos etc.

### For Further details please contact:

Dr. A. A. Halder, Organizing Secretary (NCRICT-2023)  
S.S.E.S. Am's Science College Congress Nagar, Nagpur  
440012, INDIA  
Telephone : +91 0712-2423432 (O), 9175128636 (M)  
Email : ncriict2023@gmail.com Website : www.ssenagpur.ac.in

### About the College

SSES Am's Science College Congress Nagar, Nagpur is one of the 300+ institutions run by Shri Shivaji Education Society Amravati. It is a premier institution of higher learning in Central India. The college is accredited by NAAC as A+ grade college with CGPA of 3.51. The college is identified by UGC as a "College with Potential for Excellence" (CPE) since 2004. The college is a member of "Asia Pacific Quality Network" of reputed Institutes in Asian countries. College is identified as a mentor college under Paramarsh Scheme of UGC New Delhi for helping non-accredited colleges for NAAC and other quality frame work. The College imparts science education from XI<sup>th</sup> standard to PG level. The college is having center of higher learning and research in five subjects. The college has organized eight DST sponsored residential INSPIRE camps for the students. The college gives admission to the students from different strata of the society. Special efforts are taken by college for career counseling and placement. The college has a record of highest number of merit positions in board and university examinations. The students have won prizes and awards in sports and cultural events at university, national and international level. Well qualified and experienced staff members of every department are also awarded by national, international awards and fellowships for higher learning and research.

**Registration: A registration fee per participant of**  
**Rs. 1,500/- for faculty members / Professionals**  
**Rs. 1,200/- for research scholars**  
**Rs. 1,000/- for PG students**

is to be paid through Net Banking/UPI. The registration fee does not include accommodation. However assistance for the accommodation of participants will be provided by the organizing team.

Selected papers will be published in UGC CARE/ SCOPUS or WEB OF SCIENCE Journal by paying extra fees.

### Important Dates:

Last date of Paper Submission : 05/03/2023  
Notification of Acceptance : 10/03/2023  
Last date of Registration : 15/03/2023  
Conference Dates : March 27-28, 2023



Dr. Panjabrao Alias Bhansahab Deshmukh's 125<sup>th</sup> Birth Anniversary Year  
Rashtrasant Tukadoji Maharaj Nagpur University Centenary Year

## NATIONAL CONFERENCE ON RESEARCH INNOVATIONS IN ICT AND COMPUTING TECHNOLOGIES

(NCRICT-2023)

March 27-28, 2023

Organized by



### Department of Computer Science

Shri Shivaji Education Society, Amravati's

## SCIENCE COLLEGE

Congress Nagar, Nagpur 440012

Accredited by NAAC as A+ Grade with CGPA of 3.51  
Identified A College with Potential for Excellence by UGC, New Delhi  
Mentor College under UGC Paramarsh Scheme  
Recognized Centre for Higher learning  
Member of APQN

As a part of Dr. Panjabrao Alias Bhansahab Deshmukh's 125<sup>th</sup> Birth Anniversary Year and Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur Centenary Year Celebrations, Shri Shivaji Education Society Amravati's Science College Congress Nagar, Nagpur is organizing

### NATIONAL CONFERENCE ON RESEARCH INNOVATIONS IN ICT AND COMPUTING TECHNOLOGIES (NCRICT-2023) During March 27 - 28, 2023.

### Objectives:

The main aim of the conference is to provide an opportunity to students, research scholars and teachers to get an exposure of exciting field of Computer Science and Electronics with recent developments in the field. The conference will also provide an impetus to teachers/students who are looking for an area to do research. Those who have already initiated in research, it would provide a good opportunity for interaction with the experts.

### For whom:

The conference lectures would be addressed at an advance level and would be accessible to highly motivated M.Sc., MCA, B.Sc. and BCA students as well as to college teachers, university teachers and researchers.

### Topics to be covered (but not limited to) :

- Parallel Computing
- Wireless Communication
- Real Time Systems
- Cloud Computing
- Micro Controller
- VLSI
- Embedded System
- Hypertext and Hypermedia
- Multimedia Document Architecture
- Image Processing
- Mobile Computing
- Soft-Computing
- Data Mining
- Natural Language Processing
- Human Computer Interaction
- Machine Learning
- Data Science
- Bio-Medical Instrumentation
- Forensic Science
- Network Security
- Deep Learning
- Block Chain

- Patron : 1. Hon'ble Shri Harshvardhan P. Deshmukh**  
President, Shri Shivaji Education Society, Amravati.  
**2. Hon'ble Prof. Subhash Chaudhari**  
Vice Chancellor, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.  
**3. Hon'ble Prof. Sanjay Dudhe**  
Pro-Vice Chancellor, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.

### Local Organizing Committee

- Prof. M. P. Dhore, Principal : Chairman : 9423103043  
Prof. S. R. Pandey : Convener : 9422804245  
Prof. R. N. Jugele : Co-Convenor : 9425101139  
Dr. A. A. Halder : Organizing Secretary : 9175128636  
Dr. J. K. Keche : Joint Organizing Secretary : 9850325524  
Dr. S. R. Gedam : Treasurer : 9890803473

### Members

- Prof. S. M. Ghatge  
Prof. R. N. Deshmukh  
Prof. R. U. Klings  
Prof. A. D. Bobdey  
Prof. S. W. Anwar  
Dr. R. V. Deshmukh  
Dr. V. A. Dabale  
Dr. A. M. Pand  
Ms. P. B. Zomarkar  
Prof. V. V. Shinde  
Prof. S. R. Sharma  
Prof. Anil Kholragade  
Prof. K. D. Kulkarni  
Prof. A. S. Mahabadi  
Dr. V. R. Hoshkar  
Dr. G. S. Kulkar  
Dr. R. K. Dhurav  
Dr. S. B. Kishor  
Dr. P. B. Dhanu  
Dr. A. D. Sakhar  
Dr. S. M. Barhate  
Dr. K. M. Dhote  
Dr. Manjiri Vyasahe  
Dr. Nilesh Meshram  
Dr. Varsha Rangari  
Dr. Pravin Gundabwar  
Dr. Vaibhav Bhodi  
Dr. Mrs. Manita Bhatti  
Dr. Arjun Mane  
Dr. Pravin Sontakhe  
Dr. Parvez Sautalgade  
Dr. Poonam Nafade  
Dr. Bhushkar Kathan  
Dr. V. V. Bhargavagar  
Dr. Mrs. A. J. Channikar  
Dr. A. S. Ramteke  
Dr. Sachal Narale  
Dr. Mukul Bhonde  
Dr. Avinash Kadam  
Dr. Chandrashekhra Savarkar  
Dr. Narendra Jathie  
Dr. Dinesh Satang  
Dr. Manish Jivade  
Dr. P. P. Yende  
Dr. P. V. Nimbalkar  
Dr. H. B. Pethi  
Dr. Amar Sote  
Dr. P. H. Ghoshkar  
Dr. D. S. Sudhakar  
Dr. Mrs. Sushila Ramchandran  
Dr. M. T. Wanjari  
Dr. V. C. Pande  
Dr. V. N. Patange  
Dr. Laxdhar Rewatkar  
Dr. Nagar S. Shende  
Mr. S. W. Khurwade  
Mr. V. K. Tembhurne  
Mr. A. M. Bhavs  
Mrs. Amrita Vahi  
Mrs. Pradnya Awale  
Mr. T. P. Raju  
Mr. Sudhir Javari  
Mr. Anupam Chaudhary  
Mr. Roshan Chaudhary  
Mr. Palash Faldewar  
Mr. Vijay Junjhar  
Mr. Sachin Zale  
Mrs. Subhasti Chaturvedi  
Mr. W. N. Anandpawar  
Mr. A. S. Pimpalkar  
Mr. Anil Beldhade  
Mr. Parag Wadher  
Mr. S. B. Korki  
Mr. S. S. Hegde  
Mr. Sudhir B. Agarwal  
Mr. C. S. Toppe  
Mrs. Ritu Awasthi  
Mrs. Chetna Bhosar  
Mrs. Priyanka Sharma  
Ms. Sahab Navem M Zafar  
Ms. P. M. Dhadhe  
Ms. Asfou M. Shukh  
Mr. A. V. Bhatke  
Mrs. A. U. Bunsing  
Mrs. M. S. Kongre  
Ms. A. J. Thakar  
Mrs. A. S. Khondakari  
Mrs. A. A. Gohad  
Ms. S. V. Lokhande  
Ms. M. S. Hingde  
Ms. T. S. Rewatkar  
Ms. P. T. Lakshmagure  
Ms. A. A. Chaudhary  
Ms. A. M. Rahangdale  
Ms. A. S. Chaudhari  
Mrs. S. N. Yeole  
Mrs. S. A. Khondapale

### NATIONAL CONFERENCE ON RESEARCH INNOVATIONS IN ICT AND COMPUTING TECHNOLOGIES (NCRICT- 2023) March 27-28, -2023

To participate in this Conference

Kindly fill your details in this google form to register for the NCRICT-2023  
REGISTRATION LINK:  
<https://forms.gle/T3CBWvmzvGK8RuEr5>  
Email for Paper Submission: ncriict2023@gmail.com

### FOR RTGS/NEFT/UPI - BANK DETAILS ARE :

Bank Name	Central Bank of India
Bank Account Name	Principal S.S.E.S. Am't's Science College, Nagpur
Account Number	3753531013
IFSC Code	CBIN0283465
MICR Code	440016011
Address	DNC Branch Nagpur

