

AKSHARASURYA

Peer-Reviewed, Multi Lingual E-Journal

E-ISSN: 2583-620X

VOLUME-17, ISSUE-03, AUGUST 2026.

SPECIAL ISSUE

IMPACT FACTOR: 4.8 (RPRI)



PUBLISHER:

Dr. Mahesh M.

Assistant Professor of Kannada, Christ Academy Institute of Law (CAIL),

Christ Nagar, Hullahalli, Begur - Koppa Road, Sakkalwara Post,

Bangalore - 560 083, Karnataka.

9008559583

m143che@gmail.com

<https://aksharasurya.com/>



GOVERNMENT OF KARNATAKA
Department of Collegiate Education
GOVERNMENT FIRST GRADE COLLEGE
NAVANAGAR, BAGALKOT-587103
(Affiliated to Bagalkot University, Jamakhandi)
Accredited by NAAC with 'B' Grade

An IQAC Initiative
A Multi-Disciplinary One-Day International Conference
on

*“Artificial Intelligence and
Society: Ethics,
Opportunities and Challenges”*

23rd July 2026

ORGANISED BY
Government First Grade College
Navanagar, Bagalkot

HONORARY EDITOR:

Prof. Arunkumar B. Gali

CHIEF EDITORS:

Dr. Suman V. Muchakhandi

Smt. Savita L. Badami

Dr. Laxmibai S. Kattimani

Dr. Basavaraj Bilagi

EDITORS:

Dr. Mubeen Belgaum

Dr. Bhagirathi Halalli

ORGANIZING COMMITTEE:

CHAIRMAN:

Prof. Arunkumar B. Gali

CONFERENCE CONVENOR

Ms. Savita L. Badami

Department of Physics

ORGANISING SECRETARIES

Dr. Suman V. Muchakhandi

Head, Department of Sociology

Dr. Laxmibai S. Kattimani

Head, Library and Information Science Centre.

MEMBERS:

Dr. Mubeen Belgaum

Ms. Sunanda Budihal

Dr. Bhagirathi Halalli

Dr. Sumangala Meti

Dr. Kavita Hurkadli

Dr. Chandrashekhar Kalannavar

ADVISORY COMMITTEE:

CHAIRMAN:

Prof. Arunkumar B. Gali

MEMBERS:

Dr. Guruswami Hiremath

Dr. Anandrao Kulkarni

Dr. Bhaskar Mundewadi

Shri. Lepakshaiah

Shri. Shashidhar Kumbar

Shri. Neelappa Kuri

Shri. Shivashankar Prasad

Dr. Basavaraj Bilagi

Shri. Parasappa Talwar

Shri. Sampat S. Lamani

Shri. Chandrashekhar Kale

Shri. Sagar Chingle

Shri. Rajesh V.

Shri. Sachin Kulkarni

Shri. Shrishail Shirol

INTERNATIONAL ADVISORY COMMITTEE:

Shri. Deepak M.V.S

M.Tech, CICTT
University of Cambridge, U.K.

Dr. Mahammad Gulam Ghouse Pasha

Specialist - Academic Writing / Librarian
Mohammed Bin Rashid University of Medicine
and Health Sciences, Dubai – UAE

Mr. Shahabaz Ahmed B.

Senior Cost and Proposal Engineer
IHCC, Jeddah, KSA

Dr. Revanasiddha B. Khanapure

Assistant Professor
Naveen Jindal School of Management
University of Texas at Dallas
800 W Campabell Road,
Mailstop- S M 31
Richardson, TX, 75080

Aditya Gurematti

School of Natural Sciences and Mathematics,
800 West Campbell Road, The University of
Texas at Dallas, Richardson, TX, 75080, USA

Tejasvi Varadaraj

Eric Johnson School of Engineering, 800 West
Campbell Road, The University of Texas at
Dallas, Richardson, TX, 75080, USA

**NATIONAL
ADVISORY COMMITTEE:**

Prof. Jangamashetti Suresh, Ph.D. (IIT Kgp)

SMIEEE, Chair Elect IEEE-PES-BC &

Fulbright Alumnus

Vice Chancellor, Haveri University,
Kerimattihalli, Haveri - 581110 (Govt. of
Karnataka State Public University)

Dr. Meena Chandavarkar

Chairperson, SRC-NCTE, New Delhi

Former Vice Chancellor

Karnataka State Women's University,
Vijayapur, Karnataka

Dr. Shourini Banarjee

Asst. Professor,

Dept. of Visual Communication

The American College (Autonomous),
Madurai – 625002, Tamil Nadu

Dr. Ashok Hanjagi

Dean, Science and Technology

Bangalore University, Bengaluru, Karnataka

Prof. Chandrika K.B.

Professor, Dept. of Sociology

Rani Channamma University,

Belagavi-591156, Karnataka

Prof. Rajesh R.

Professor, Dept. of Sociology

Jnanabharati Campus, Bengaluru University,

Bengaluru - 560056, Karnataka

Dr. Sumant S. Hiremath

Associate Professor, Dept. of Sociology

Rani Channamma University,

Belagavi-591156, Karnataka

Dr. Bhojaraju Gunjal

Chief Library Officer,

Knowledge Resource Centre (KRC-Library)

Indian Institute of Technology Hyderabad,

Kandi, Sangareddy - 502284, Telangana

Dr. Nandeesh B.

Asst. Library and Information Officer

All India Institute of Speech and Hearing

(Ministry of Health and Family Welfare, Govt.

of India), Manasagangothri, Mysuru - 570006,

Karnataka

Dr. Kutty Kumar

Assistant Professor, Library

and Information Science

College of Veterinary Science,

Sri Venkateswara Veterinary University,

Tirupathi - 517502, Andhra Pradesh

Dr. Dinesh Siddaiah

Librarian and Registrar (Officiating)

Indian Institute of Technology Ropar,

Rupnagar, Punjab

Dr. Mahabaleshwara Rao

Additional Professor

Department of Library & Information Science,

Manipal Academy of Higher Education,

Manipal - 576104, Karnataka

Dr. Ashoka R.

Officer (Learning Centre)

Indian Institute of Management Indore,

Prabandh Shikhar, Rau-Pithampur Road,

Indore - 453556, Madhya Pradesh

Dr. K. S. Ali

University Librarian / Associate Professor

Arrupe Library & Information Centre, St.

Joseph's University, 36, Lalbagh Road,

Bengaluru - 560027, Karnataka

ABOUT THE COLLEGE

Government First Grade College, Navanagar, Bagalkot, is a well-established undergraduate institution run by the Government of Karnataka, dedicated to providing affordable, high-quality higher education to students in the region. The college was founded in 2006 and is affiliated with Bagalkot University, Jamakhandi. It operates under the Department of Collegiate Education, Bangalore.

The college's primary mission is to provide a holistic learning environment that fosters intellectual growth, practical skills, and ethical values among its students. It focuses on creating an atmosphere in which students from diverse backgrounds can access education and prepare for both professional careers and civic life.

Academic Programs:

Government First Grade College offers a variety of undergraduate courses across multiple disciplines. Key programs include:

- Bachelor of Arts (B.A.) – with subjects such as History, Economics, Sociology, Political Science, Criminology, Journalism, Geography, and more (3 years).
- Bachelor of Commerce (B.Com.) – focused on commerce, accounting, and related subjects (3 years).
- Bachelor of Science (B.Sc.) – covering combinations like Physics, Mathematics, Chemistry, Computer Science, Botany, and Zoology.
- Bachelor of Business Administration (BBA) – for students interested in management and business studies.
- Bachelor of Computer Applications (BCA) – designed for careers in IT and software.

Facilities

The institution provides a student-friendly learning environment with:

- Well-stocked library
- Science laboratories
- Computer laboratory with internet facilities
- Sports and cultural facilities
- NSS and extension activities
- Hostel facilities
- Wi-Fi and ICT-enabled learning resources

Campus and Facilities:

The college campus is equipped with essential academic and support facilities, including well-furnished classrooms, science and computer labs, a library, Wi-Fi

connectivity, and a sports ground. Hostel accommodation is also available, providing a supportive residential setting for students. Faculty members are generally experienced and committed to student development. Beyond academics, the college encourages extracurricular activities, cultural events, and community engagement, helping students build leadership and interpersonal skills. Scholarships and financial support are available to deserving candidates, reflecting the institution's commitment to inclusive education.

Significance:

Government First Grade College, Navanagar, has emerged as one of the important higher education institutions in the region, serving a large student population and contributing significantly to the educational and socio-economic development of Bagalkot district.

ABOUT THE INTERNAL QUALITY ASSURANCE CELL (IQAC)

The Internal Quality Assurance Cell (IQAC) of Government First Grade College, Navanagar, Bagalkot, serves as a catalyst for promoting quality enhancement and sustaining academic excellence in the institution. Established in accordance with the guidelines of the National Assessment and Accreditation Council, the IQAC is committed to developing a system for conscious, consistent, and catalytic improvement of the college's overall performance.

The IQAC strives to institutionalise quality assurance practices by promoting innovative teaching-learning methods, academic and administrative excellence, research culture, student support initiatives, and extension activities. It facilitates the implementation of quality benchmarks, the documentation of academic and administrative activities, and the adoption of best practices to enhance institutional effectiveness.

The Cell actively coordinates various quality enhancement initiatives, including faculty development programmes, seminars, workshops, conferences, feedback mechanisms, outcome-based education, and stakeholder engagement. It also plays a vital role in preparing and submitting institutional-quality reports and fostering a culture of continuous improvement through periodic review and assessment.

With a vision to promote excellence in higher education, the IQAC functions as a dynamic and proactive body, ensuring the institution remains responsive to emerging educational challenges and opportunities. Through its sustained efforts, the IQAC contributes significantly to strengthening the college's academic standards, governance practices, and societal outreach.

ABOUT CONFERENCE

Artificial Intelligence (AI) is transforming societies across the globe. It influences how people work, communicate, govern, and make decisions. It is reshaping social structures and redefining human-machine interaction across healthcare and education, as well as business, media, and public services. As AI technologies are these technologies continue to evolve, it is vital to understand their broader societal consequences alongside their technical advancements. The conference on “Artificial Intelligence and Society” offers a multidisciplinary forum to examine the ethical, social, economic, cultural, and policy dimensions of AI. It focuses on responsible and inclusive AI development, addressing key challenges such as fairness, transparency, privacy, accountability, employment, and social equity. Bringing together academics, industry professionals, policymakers, researchers, and students, the conference encourages dialogue, collaboration, and knowledge sharing across disciplines. Through keynote lectures, paper presentations, panel discussions, and interactive sessions, the conference aims to foster human-centred innovation and help shape a socially responsible and sustainable AI-driven future.

SUB-THEMES

- | | |
|--|---|
| » AI in Historical Research and Archival Studies | » Digital Library and AI |
| » Digital Archaeology and AI Applications | » Information Science and AI For Modern Education |
| » AI, Democracy and Governance | » AI Models for Education |
| » AI in Public Policy and Decision-Making | » ICT Tools for Education |
| » Ethical Governance of Artificial Intelligence | » Effective ICT tool for Research publication |
| » Smart Cities and AI-Based Urban Planning | » Bio-Inspired Computing and Gen AI |
| » AI for Climate Change and Disaster Management | » Renewable energy and its role in mitigating climate change. |
| » AI and Sustainable Development | » Arising development of green nano technology. |
| » AI in Financial Systems and Markets | » Recent trends and applications in advanced materials. |
| » Digital Economy and AI | » Advanced & Emerging AI Techniques in Healthcare. |
| » AI and Social Inequality | » AI for computer-aided diagnosis. |
| » Technology, Power and Society | » Assistive AI for elderly care and accessibility solutions. |
| » AI and Changing Social Relationships | » AI in Clinical & Medical Applications. |
| » AI in Kannada Media and Communication | » Future Directions in Artificial Intelligence |
| » AI and Regional Languages | |
| » AI in Language Learning and Communication | |
| » Representation of Technology in Literature | |



KEYNOTE ADDRESS

Distinguished academicians, researchers, industry leaders, and dear participants,

It is an honour to be part of this International Multidisciplinary Conference on “Artificial Intelligence and Society: Ethics, Opportunities, and Challenges.”

As a creator and entrepreneur working at the intersection of Artificial Intelligence, Gaming, Virtual Reality, and Robotics, I believe we are witnessing one of the most transformative moments in human history. For the first time, technology is not just responding to us-it is learning, adapting, and collaborating with us.

Every day, we see AI making virtual worlds more immersive, robots more intelligent, and learning experiences more engaging. But with this extraordinary opportunity comes an equally important responsibility. The question is no longer what AI can do, but what AI should do and how we ensure it serves humanity with fairness, trust, and purpose.

The future will be shaped by those who can balance innovation with ethics, creativity with responsibility, and technological advancement with human values. Conferences like this are vital because they bring together diverse minds to answer these defining questions of our time.

I congratulate the organisers for choosing such a relevant and forward-looking theme. I wish this conference tremendous success and hope it inspires bold ideas, meaningful collaborations, and solutions that help create a future where technology empowers every individual and enriches society.

Happy learning!

Mr. Deepak M V S

M.Tech, CICTT (University of Cambridge, UK)

Date: 23-07-2026



WORDS FROM THE PRINCIPAL

It gives me immense pleasure to note that the Internal Quality Assurance Cell (IQAC) is organising a Multidisciplinary One-Day International Conference on “Artificial Intelligence and Society: Ethics, Opportunities, and Challenges.”

Artificial Intelligence (AI) is rapidly transforming every sphere of human life, including education, healthcare, governance, business, and communication. While AI offers unprecedented opportunities for innovation, efficiency, and societal advancement, it also raises critical concerns regarding ethics, privacy, accountability, inclusivity, and the future of human values. Therefore, it is essential to create platforms for meaningful dialogue and interdisciplinary collaboration to address these emerging challenges.

We were honoured to have Mr. Deepak MVS, M.Tech., CICTT, University of Cambridge, U.K., as the Keynote Speaker, whose insightful address set the tone for the conference and provided valuable perspectives on the evolving role of Artificial Intelligence in society. The Plenary Speaker, Prof. Anand Sharad Deshpande, Vice Chancellor and Chancellor of Bagalkot University, further enriched the proceedings with his thought-provoking deliberations, inspiring participants to explore the ethical, social, and transformative dimensions of AI in the contemporary world.

This conference aims to bring together academicians, researchers, industry experts, policymakers, and students from diverse disciplines to exchange ideas, share research findings, and explore the multifaceted impact of AI on society. Such discussions are crucial for fostering responsible innovation and ensuring that technological progress aligns with ethical principles and societal well-being.

This conference stands as a testament to our institution’s commitment to fostering academic excellence, promoting interdisciplinary research, and encouraging critical engagement with emerging technologies. I congratulate the IQAC, organising secretary, organising committees, and all stakeholders for their dedicated efforts in planning this important academic event. I am confident that the conference will provide valuable insights, encourage collaborative research, and contribute significantly to the

understanding of AI's role in shaping our future.

This conference marks a significant milestone in our academic journey, and I hope that the proceedings and scholarly contributions emerging from this event will serve as a valuable resource for researchers, educators, students, policymakers, and industry professionals alike. May the ideas, insights, and discussions generated through this conference inspire further research, foster innovation, and encourage critical engagement with the ethical, social, and technological dimensions of Artificial Intelligence. I am confident that the knowledge shared here will contribute meaningfully to shaping a future where AI is developed and utilised responsibly for the benefit of society.

A handwritten signature in blue ink, appearing to read 'A. B. Gali', enclosed within a circular flourish.

Dr. Arunkumar B. Gali

Principal

Govt. First Grade College

Navanagar, Bagalkot

Date: 23-07-2026

CHIEF EDITORS' NOTE

It gives us immense pleasure to present this special volume of research papers compiled from the One-Day Multidisciplinary International Conference on “Artificial Intelligence and Society: Ethics, Opportunities and Challenges”. This conference was organised to provide an academic platform for researchers, academicians, industry experts, policymakers, and students to deliberate on the transformative role of Artificial Intelligence (AI) in contemporary society and to critically examine its ethical implications, opportunities, and emerging challenges across diverse disciplines.

The conference was inaugurated in the gracious presence of the Hon'ble Vice-Chancellor of Bagalkot University, Jamakhandi, whose inspiring address highlighted the growing significance of responsible AI, interdisciplinary research, and innovation in higher education. We were also privileged to have Shri Deepak, a technologist and educator at the University of Cambridge, U.K., as the Keynote Speaker, whose insightful lecture offered valuable perspectives on recent advancements in Artificial Intelligence and their implications for academia, industry, and society. The conference was ably chaired by Dr. Arunkumar Gali, Principal, G.F.G.C. Navanagar, Bagalkot, whose leadership and encouragement contributed significantly to the success of the event.

The overwhelming response to the conference reflects the increasing academic interest in AI and its societal impact. We received 79 research papers from scholars representing 14 different academic disciplines and various institutions across different regions. The diversity of contributions demonstrates the multidisciplinary nature of AI research and its relevance to fields including social sciences, humanities, commerce, science, management, languages, library and information science, physical education, and beyond. Each manuscript included in this volume has undergone a careful review process to ensure academic quality, originality, and relevance to the conference theme. The selected papers present innovative ideas, empirical findings, conceptual analyses, and practical applications that collectively contribute to the growing body of knowledge on Artificial Intelligence and society.

We express our sincere gratitude to all the authors for their valuable research contributions and for choosing this conference as a platform to disseminate their scholarly work. We are equally thankful to the keynote speaker, the Hon'ble Vice-Chancellor, the conference chair, the members of the organising committee, the reviewers, the session chairs, the faculty members, the volunteers, and all participants, whose dedicated efforts made this international conference a grand success.

This journal provides a multidisciplinary platform for quality research and academic exchange. The papers published in this volume contribute to the understanding of Artificial Intelligence and its societal implications. We hope this publication inspires further research, collaboration, and informed discussions among scholars, educators, practitioners, and policymakers.

Dr. Suman V. Muchakhandi
Ms. Savita L. Badami
Dr. Laxmibai S. Kattimani
Dr. Basavaraj Bilagi

Date: 23-07-2026

CONTENTS

1. Artificial Intelligence in Kannada Media and Communication	01–03
~ Shivanand Chandake	
2. Digital Transformation in Libraries During Stalin's Era (2021–2026) in Tamil Nadu, Issues	04–05
~ L.V. Reddy Yannam	
3. Artificial Intelligence in Library and Information Science Education: An Indian Context	06–08
~ Dr. Laxmibai S. Kattimani & Nandeesh B.	
4. The Role of Physical Fitness in Mental Health and Stress Reduction of Cortisol Levels	09–11
~ Dr. Kutubuddin Saravan	
5. Smart Digital Libraries: Leveraging AI for Intelligent Information Services	12–15
~ Chandregowda S.	
6. Computational Studies of Iodinated Coumarin Derivative by Density Functional Theory	16–22
~ Dr. Manjula Katageri, Sulochana Devar, Vijayalaxmi Mallayya & Dr. S.M. Hanagodimath	
7. AI-Driven Analysis of Air Quality (PM_{2.5}/PM₁₀) and Its Societal Impact in the Semi-Arid Urban Landscape of Bagalkot City, Karnataka	23–27
~ Govindaraju D., K.E. Ganesh, N.V. Raju, C. Ningappa & P.B. Bhagawati	
8. Renewable Energy and Its Role in Mitigating Climate Change	28–33
~ Savita L. Badami	
9. The Features of Democracy in the Age of Artificial Intelligence: Its Merits and Challenges – A Study	34–36
~ Dr. Jayaramaiah G.M.	
10. Governing with Artificial Intelligence in Public Policy and Decision Making	37–39
~ Yankamma	
11. Artificial Intelligence, Indian Democracy and Governance: Opportunities, Challenges and Ethical Concerns	40–42
~ Dr. Santosh Mallappa Ganiger	
12. Impact of Artificial Intelligence among Male and Female Adolescents	43–45
~ Dr. Praveen Kumar K.B.	
13. Synergistic Effects of Emotional Intelligence and Self-Regulated Behaviour on Organizational Outcomes	46–50
~ Shameer	
14. Artificial Intelligence and the Transformation of Human Relationships	51–53
~ Dr. Shaila Y. Sulebhavi	
15. A Sociological Analysis with Indian and Karnataka Perspectives	54–58
~ Dr. Shivaramgowda J.R.	

-
- | | |
|--|----------------|
| 16. AI in Everyday Life: A Sociological Analysis | 59-62 |
| ~ Dr. Suman Muchakhandi & Dr. Mubeen Belgaum | |
| 17. Education in the Age of Artificial Intelligence (AI):
Bridging of Expanding Social Inequality | 63-66 |
| ~ Dr. Srinivasa T. | |
| 18. Artificial Intelligence (AI) In Social Media Reshaping Identity:
Community And Belonging | 67-70 |
| ~ Dr. Hema Naik | |
| 19. Human v/s Machine Navigating Emotional Connection in the
Artificial Intelligence (AI) Era | 71-74 |
| ~ Dr. MohanKumar K.S. | |
| 20. Artificial Intelligence and Society: Its Impact on Women's Life | 75-78 |
| ~ Pushpa Hunashyal | |
| 21. Artificial Intelligence for Social Sustainability in the Digital Literacy | 79-81 |
| ~ Dr. Chitrakala N. | |
| 22. Artificial Intelligence and the Dynamics of Social Relationships in
Modern Society: A Sociological Perspective | 82-86 |
| ~ Deepa S.V. | |
| 23. The Concept of Corporate Social Responsibility for Smart Village in India:
A Sociological Analysis | 87-90 |
| ~ Dr. Maruthi M. | |
| 24. Adaptive AI Models for Personalized Learning:
Rethinking Instructional Design | 91-94 |
| ~ Murugeshi K. | |
| 25. Artificial Intelligence in Language Learning and Communication:
Opportunities, Challenges, and Pedagogical Implications | 95-97 |
| ~ Dr. Neetha A.J. | |
| 26. Digital Economy and Artificial Intelligence:
Transforming Global Economic Structures | 98-101 |
| ~ Dr. Thimmegowda T.K. | |
| 27. Understanding the Importance of Balancing Physical Work
and Health-Related Fitness | 102-105 |
| ~ Dr. Jayaprakash Bilagi | |
| 28. ಉನ್ನತ ಶಿಕ್ಷಣದ ಮೇಲೆ ಕೃತಕ ಬುದ್ಧಿಮತ್ತೆಯ ಪ್ರಭಾವ: ಒಂದು ವಿಶ್ಲೇಷಣೆ | 106-109 |
| ~ ಡಾ. ಬೋರೇಗೌಡ ಎಸ್.ಬಿ. | |
-