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AACST NEWS Letter

https://www.uni-hannover.de/en/studium/studienangebot/info/studiengang/detail/informatik-vertiefung-logic-and-computation

This issue

DSA - the Living Backbone of Logic in Computation

Introduction

Proclaimed by UNESCO, World Logic Day honors Alfred Tarski (Born on 14/1/1901) and Kurt Gödel (Died on 14/1/1978), observed on January 14, it underscores logical reasoning in science and technology, central to Data Structures and Algorithms (DSA), the foundation of computational problem solving. This year's theme, "Logic & Diversity," highlights how varied ways of thinking help address global challenges collectively.

Understanding Data Structures and Algorithms

A data structure specifies how data is logically arranged and stored, whereas an algorithm describes a step-by-step logical procedure for processing that data. They work together to ensure that computational systems are efficient, accurate, and scalable. DSA is important in a variety of applications, from simple searches and sorting to sophisticated systems like databases, networks, and operating systems.

Relevance in the Present Digital Era

Data structures and algorithms are still very significant in today's digital era of artificial intelligence, cloud computing, and big data. Modern technologies rely largely on streamlined algorithms to manage large amounts of data, shorten computational time, and improve system performance. Poor algorithmic design can result in slower systems, increased costs, and security problems.

Future Significance in Computing

Complex, data-intensive, real-time systems will drive computing's future. Emerging domains such as artificial intelligence, machine learning, cybersecurity, blockchain, Internet of Things (IoT), and quantum computing will demand advanced algorithms and innovative data structures. As data rises exponentially, efficient algorithms will become critical for energy-efficient computing, real-time decision-making, and ethical AI systems. Logical algorithm design will also be critical in assuring transparency, fairness, and security in automated systems.

Conclusion

Data structures and algorithms in the computational world are more than just academic disciplines; they are strong frameworks that translate logical thinking into practical solutions. They promote efficiency, dependability, and innovation in many aspects of computing. As an example of logical thinking in action, DSA is ageless and vital in defining the current and future of technology.

Dr. S. B. Kishor

Chairman, BoS, Computer Scinece
Gondwana University, Gadchiroli
President AACST

Computional Days

◇ January 11 — Morse Code Day

Morse Code Day commemorates the birth of Samuel Morse and the invention of Morse code. It highlights the foundations of digital communication and modern information transmission.

◇ January 14 — World Logic Day

World Logic Day promotes logical reasoning and critical thinking in science and education. It underlines the role of logic in computing, algorithms, and problem-solving.

◇ January 24 — Macintosh Day

Macintosh Day marks the launch of Apple's Macintosh computer in 1984.

It celebrates innovations in personal computing, graphical user interfaces, and usability.

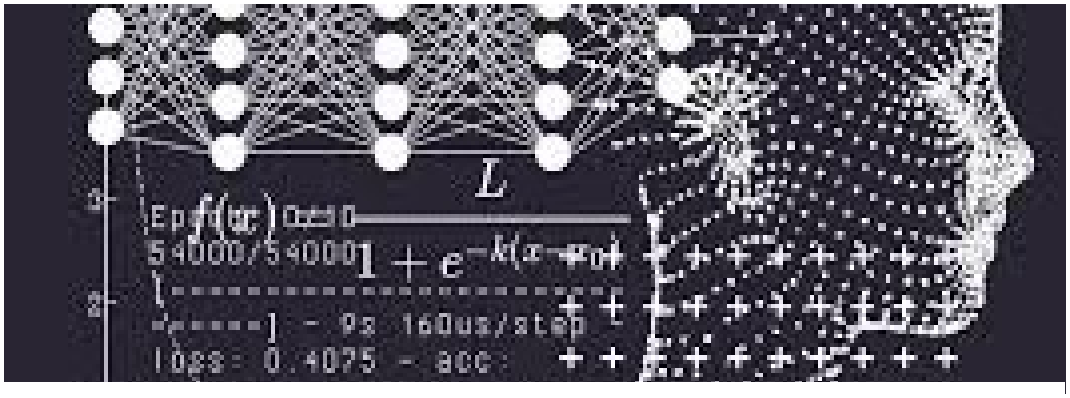
◇ January 28 — Data Protection & Privacy *Day*

This day raises awareness about safeguarding personal data and privacy rights. It encourages responsible data handling, cybersecurity practices, and digital trust.

◇ January 31 — National Bug Busting Day

National Bug Busting Day highlights the importance of identifying and fixing software errors.

Intuitionistic Fuzzy Sets in Uncertain Environments



Source: **https://www.linkedin.com/pulse/taming-fuzz-how-fuzzy-logic-makes-ai-think-more-like-you-t-4x7lc/**-ideas-reality-raheel-ali-4ymsf

Introduction to Intuitionistic Fuzzy Sets

Intuitionistic Fuzzy Sets (IFS) offer a sophisticated mathematical framework for dealing with the uncertainty, ambiguity, and hesitancy that are present in many real-world problems. Intuitive fuzzy sets, introduced by Atanassov in 1986, go beyond traditional fuzzy set theory by including additional information that better reflects human reasoning and partial knowledge.

Concept and Mathematical Structure

In classical fuzzy sets, each element is defined solely by its degree of membership. Intuitionistic fuzzy sets go one step further, defining each element with three components: the degree of membership, the degree of non-membership, and a hesitation margin. The hesitation margin indicates ambiguity or a lack of information regarding the element's relationship with the collection. A major requirement of IFS is that the total of the membership and non-membership degrees be less than or equal to one, with the remaining number representing the degree of indeterminacy.

Key Features and Advantages

The primary advantage of intuitionistic fuzzy sets is their ability to capture uncertainty more realistically than traditional fuzzy sets. By explicitly expressing reluctance, IFS improves the representation of ambiguous and imprecise data. This makes them especially effective in situations when information is ambiguous, subjective, or based on expert judgments. IFS increases modeling versatility while also improving reasoning and decision-making processes.

Applications for Decision Making and Healthcare

Intuitionistic fuzzy sets are commonly used in multi-criteria decision-making situations like personnel selection, risk assessment, investment planning, and product appraisal. IFS-based techniques in medical diagnostics aid in the integration of unclear symptoms and test results, resulting in more reliable diagnostic conclusions when definitive evidence is missing.

Conclusion

Intuitionistic fuzzy sets are a powerful and adaptable mathematical tool for representing uncertainty, hesitancy, and vagueness. By expanding traditional fuzzy logic, IFS bridges the gap between theoretical models and real-world complexity. Their increasing use in decision-making, healthcare, environmental studies, social sciences, and engineering emphasizes their significance in modern applied research and problem solutions.

Dr. Manoranjan Kumar Singh
Professor & former Head,
Department of Mathematics,
M. U. Bodh-Gaya, Bihar
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Articles will be published based on the number of submissions received and their novelty.

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Bootcamp on C and C++ Programming

Organized by:
AACST (Association of All Computer Science Teachers)
In Collaboration With
Speed Computer Guidance
An Institute of Computer Science and Software Research
(Regd. No. 2008/CHD/CE-15)

ABOUT THE BOOTCAMP

This 12-day intensive bootcamp is designed to strengthen foundational and advanced programming skills in C and C++ through concept sessions, demonstrations, and guided projects. Participants will learn structured and object-oriented programming, algorithm design, and debugging techniques.

WHO CAN ATTEND??

Students, teachers, and Programming Enthusiasts Seeking to strengthen their coding skills in C and C++.

REGISTRATION AND ENQUIRIES

- **Contact :** Speed Computer Guidance Centre
- **Address:** Tukum, Chandrapur
- **Phone :** +91-9890030623
- **Email :** info@speedcomputerguidance.in
- **Fees :** 200/-

VERY LIMITED SEATS

REGISTRATION AND ENQUIRIES

Duration: 22nd February 2026 – 5th March 2026
Venue : Speed Computer Guidance Centre, Tukum, Chandrapur – 442 401 (M.S.)
Mode : Offline – Hands-on Practice Sessions

KEY FEATURES

- Practical, hands-on learning.
- Step-by-step guidance for beginners
- Concept clarity and coding exercises
- Certificate of Participation from AACST
- Expert resource persons from academia

MENTOR
Dr. S. B. Kishor

COURSE DIRECTOR
Irfan Israil Sheikh

Form Registration https://forms.gle/DBvo9JoQQ6jSBfsy7

Important Dates:

Full Paper Submission/ Date	5 Jan 2026
Notification of Acceptance Date	10 Jan 2026
Last date of Registration	15 Jan 2026

Registration Fees:

Category	Early Bird	General Registration
Academia/Research Scholar(National)	Rs.1500/-	Rs.2000/-
Academia/Research Scholar(International)	Rs.2500/-	Rs.3000/-
Student Author	Rs.500/-	Rs.800/-
Industry Participants	Rs.3000/-	Rs.3500/-

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Contacts
Dr Akanksha Budholiya
+91 9420487402

Ms Shivani Chavhan
+91 83810 78932

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+91 99224 69935

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NATIONAL LEVEL

6th International Conference on
Advances in Management & Technology
From Data Intelligence to Cyber Defense: Integrative AI for Empowering the Digital Future (ICAMT) 2026

6th February 2026

Venue : Auditorium, Riaan Tower Sadar, Mangalwari, Nagpur.
Mode of Conduction : Offline
Email : icamt.srwc@srwc.raisoni.net
Website : https://srwc.raisoni.net/icamt-2026/

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Congratulations

Congratulations to **Ms. Sheetal Billore/Thakur, a life member of AACST**, on winning the Second Prize at the University Level under the PPG (Ph.D.) category at *Aavishkar-2026*.

The Aavishkar Research Festival is organized by the Department of Higher Education, Government of Maharashtra, and conducted at the university level by Gondwana University, Gadchiroli on dated 12-13 Jan 2026. Her poster topic was ***"AI-Based Adaptive Blockchain Solution for a Non-Decipherable System."*** She is a research scholar at Sardar Patel Mahavidyalaya, Chandrapur, Maharashtra, working under the supervision of Retd. Prof. Dr. K. D. Kalaskar

Authors are invited to submit original and unpublished research paper(s) for consideration in the January 2026 issue.

Publish Article in AACST Bulletin

Instruction

1) Heading Size should be 14-16 with 3 subheading
2) Normal Text size 9 Font : Times New Roman / Arial
3) Kindly include releavant picture of title with source
4) Article should be original and should follow Ethics
5) The editor is not liable for any copied content in articles, including cases of improper or missing citation.
6) Cite whenever copying & Pasting sentences/idea/images
7) Article should have word counts 250-275 words
8) Login into www.aacst.org with your username and password
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Dr. S. B. Kishor
President, AACST

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