360 EXTRA

CYBERSOLUTION TECHNOLOGIES

Vol. 1 (2025) , Issue 5 (May) : EXTRA

TOPICS IN SMART CITY

Fundamental and Applications

Intelligent Robotic

- Delivery Robot
- Disinfection Robot
- Cleaning Robot
- Customized
- Sales and Marketing
- Maintenance and Support
- Technology transfer/Training
- Partnership

Geospatial (GIS)

- Technology R&D and Application
- Dashboard/Platform Development
- Database/Big Data and Integration
- Experience Gallery/Command Center

Smart City

- Event showcase
- Partneship/Consortium collaboration
- Product Talk/Technology sharing/Consultancy
- Grant,Tender and paperwork
- Course/Knowledge gathering

Research and Development

- R&D matching grants
- AI, Robotic, IoT and Smart City components
- Collaboration and partnership
- Technology/Service provider

STEM Education (STREAMLAB 4.0)

- Robotic Arm (Dobot)
- Humanoid (LEJU Aelos)
- 3D Printing & 3D Modelling Software
- Augmented Reality (AR)
- Laser Engraving
- DIY Mini Projects
- Computer Vision (AI)
- Automation
- Programming (Java,Phyton,ROS,Block)
- Hardware (Arduino, Raspberry, ESP32..)
- Training and Sharing Knowledge

Urban Farming

- Hydroponic system
- Monitoring system
- AI and IoT Development
- Sales and Marketing

Training and Consultancy

- Industrial panel jury (Expo/FYP/Competition)
- Digital-Entreprenurship
- Internship programme/Talent Development
- University-Industry visit
- Corporate Sosial Responsibilites (CSR)
- Environmental, Social, and Governance (ESG)
- Knowledge Sharing/Consultancy

Source: Vol. 1 (2025) , Issue 1 (January) : EXTRA

CTSB	Name	email	Topic
JB	Yusuf	yusufjohari@cybersolution.com.my	RESPONSIBLE AI: Building Trustworthy Systems
KL	Faizul	faizul@cybersolution.com.my	3 Types of AI
K.Trg	Aqilah	aqilahazman@cybersolution.com.my	Dashboard in GIS
K.Trg	Syafiqah	syafiqahissham@cybersolution.com.my	Top 5 Smart Cities in the World

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RESPONSIBLE AI: Building Trustworthy Systems

MAY 2025 | Key Pillars for Ethical & Accountable Artificial Intelligence

As Artificial Intelligence becomes increasingly integrated into our lives, ensuring its development and deployment are guided by ethical principles is paramount. Responsible AI is not just a goal but a continuous commitment to creating systems that are fair, transparent, secure, and accountable, ultimately fostering trust and benefiting humanity.

Fairness & Non-Discrimination

Designing AI to treat all individuals and groups equitably, actively identifying and mitigating biases to prevent discriminatory outcomes in critical areas like hiring, lending, and justice.

Transparency & Explainability

Making AI decision-making processes understandable. Users and developers should be able to comprehend how AI arrives at conclusions, fostering trust and enabling error detection (XAI).

Accountability & Governance

Establishing clear lines of responsibility for AI system behavior and outcomes. Implementing robust governance frameworks, audit trails, and oversight mechanisms.

Privacy & Data Protection

Safeguarding individual privacy by design. Ensuring data is collected, used, and stored ethically and securely, with techniques like anonymization and federated learning.

Security & Robustness

Building AI systems resilient to adversarial attacks, manipulation, and unintended failures. Ensuring reliability and consistent performance in diverse and challenging conditions.

Human Oversight & Control

Maintaining meaningful human control over AI systems. Ensuring humans can intervene, override, or shut down AI when necessary, especially in high-stakes applications.

3 Types of Artificial Intelligence

Artificial Narrow Intelligence (ANI)

Stage-1

Machine Learning

- Specialises in one area and solves one problem

Artificial General Intelligence (AGI)

Stage-2

Machine Intelligence

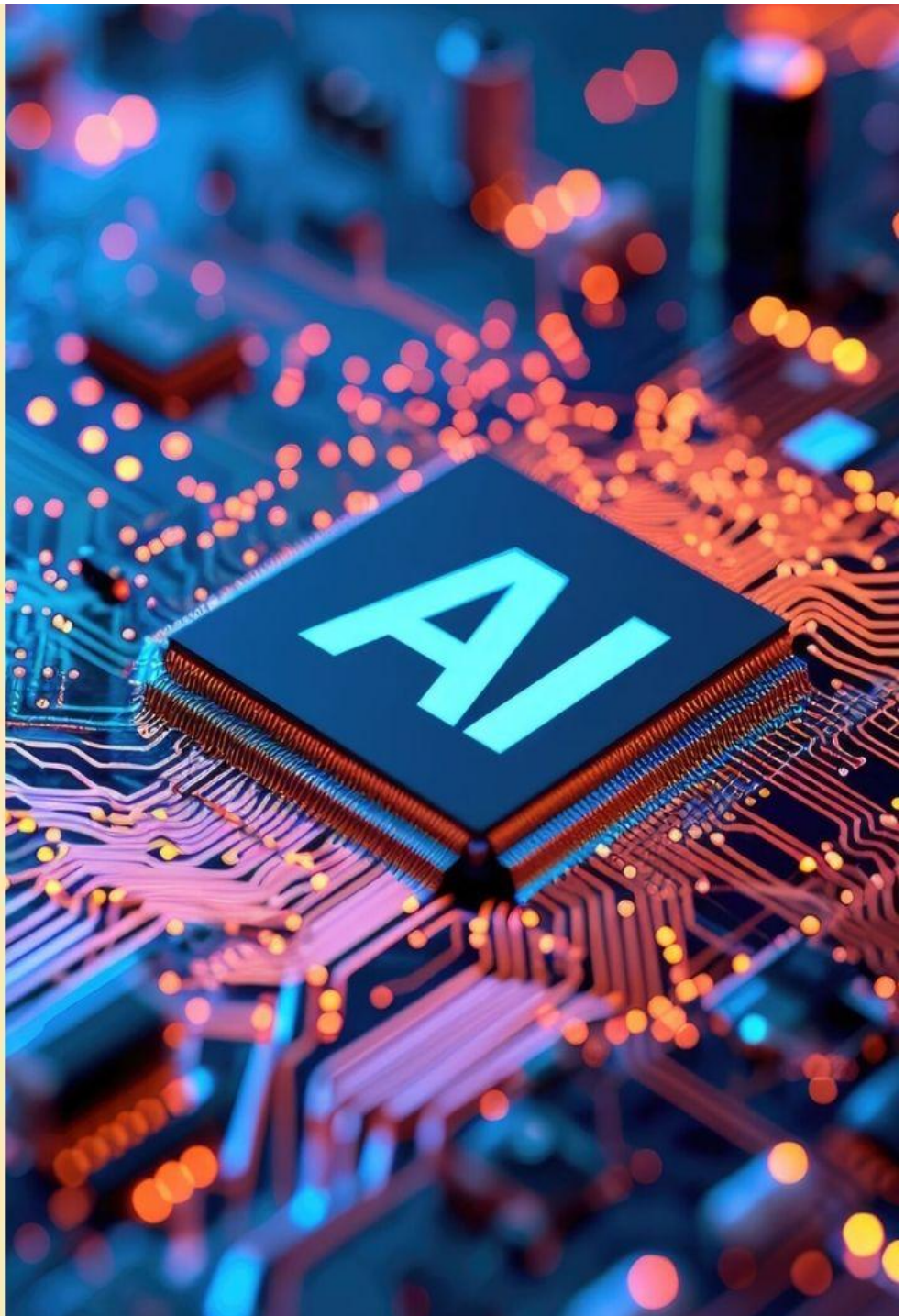
- Refers to a computer that is as smart as a human across the board

Artificial Super Intelligence (ASI)

Stage-3

Machine Consciousness

- An intellect that is much smarter than the best human brains in practically every field



Dashboard in GIS

Dashboard is a user interface that displays a collection of geographic information and data visualizations on a single screen.

Key Characteristics of GIS Dashboard

- Visual Presentation: It uses various elements like maps, charts, graphs, lists, gauges, and indicators to present data in an easily understandable format.
- Interactive: Many GIS dashboards are interactive, allowing users to explore the data by zooming, panning, filtering, and selecting features on maps and linked charts. This interactivity enables deeper insights.
- Real-time Monitoring: Some dashboards are connected to live data feeds, providing a real-time view of ongoing events, such as traffic flow, weather conditions, or sensor readings.
- Decision Support: By presenting key information clearly and concisely, GIS dashboards help stakeholders quickly grasp the current situation and make timely and location-aware decisions.
- Location-Based Analytics: The core of a GIS dashboard is its ability to integrate and display geographically referenced data. This allows users to see where things are happening and analyze patterns across space.

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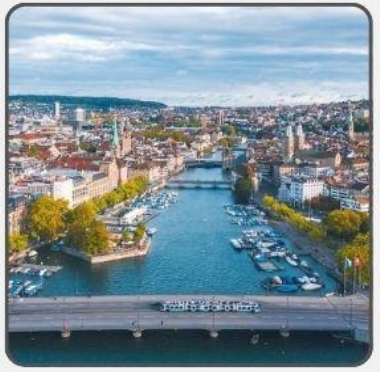
Top 5 Smart Cities in the World

Singapore

*Pioneering its **Smart Nation Initiative** for integrated digital services and pervasive urban sensing*

Helsinki, Finland

*Championing **open data and co-creation**, involving citizens in developing innovative smart city services*



Zurich, Switzerland

*Leading in **sustainable energy and smart grid development**, fostering high quality of life and environmental performance*

New York, United States

*Transforming public spaces with **LinkNYC kiosks**, offering free Wi-Fi and digital services city-wide*

Oslo, Norway

*Committed to becoming a **zero-emission city by 2030**, with extensive electric public transport*

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