



Robotics Services Section Home

History

The roots of robotics trace back to ancient times when inventors and thinkers imagined automata that could mimic human actions. However, the modern era of robotics began in the mid-20th century. The term "robotics" was introduced by Isaac Asimov in his science fiction stories, and soon after, researchers like George Devol and Joseph Engelberger developed the first industrial robots capable of performing repetitive tasks.

Joseph Engelberger

Known as the "Father of Robotics," Engelberger co-invented the first industrial robot, the Unimate.

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Rodney Brooks

Pioneered the development of behavior-based robotics and co-founded iRobot.

Industrial Applications

1.

Healthcare

Surgical robots assist doctors in delicate procedures and telemedicine.

3.

Logistics and Warehousing

Robots facilitate order picking, packing, and inventory management.

5.

Space Exploration

Robots explore planets, moons, and asteroids.

7.

Search and Rescue

Robots navigate hazardous environments during disasters.

9.

Education

Robots teach programming, problem-solving, and other skills.

11.

Energy Sector

Robots inspect and maintain pipelines, power plants, and offshore platforms.

13.

Construction

Robots automate bricklaying, concrete pouring, and other tasks.

15.

Telepresence

Robots allow remote interaction and communication.

17.

Food Industry

Robots cook, serve, and prepare food in restaurants and factories.

19.

Fashion and Textiles

Robots design, cut, and sew clothing.

Collaborative Robots (Cobots)

Working alongside humans for enhanced productivity.

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Healthcare Revolution

Robots for eldercare, rehabilitation, and diagnostics.

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Nanorobotics

Tiny robots for medical procedures at the cellular level.

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Robotic Ethics

Addressing ethical and legal concerns in robot-human interactions.

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Robotic Farming

Precision agriculture using autonomous drones and machines.

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