BYTE QUEST

Vasavi College of Engineering

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Contents:

Byte Quest is the article published by the CSE dept of Vasavi College of Engineering regarding the latest innovative Technologies and Software that have been emerged in the competitive world. The motto of this article is to update the people regarding the improvement in technology. The article is designed by the active participation of students under the guidance of faculty coordinators.

 Good, bad or indifferent if you are not investing in new technology, you are going to be left behind.

-Philip Green

 Once a new technology rolls over you, if you're not part of the steamroller, you're part of the road.

-Stewart Brand

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AI SOFTWARE

In creating intelligent software, this involves simulating a number of capabilities, including reasoning, learning, problem solving, perception, knowledge representation.Today, Artificial intelligence software is at work in applications such as your smartphone assistant,ATMs that read checks, voice and image recognition software on your favorite social network, and in the software that serves up ads on many of the websites you use.These are just a sample of the growing number of applications of artificial intelligence software that we'll see in the future.Is techniques become more practical, they could increase the speed at which new AIs can be made and implemented across the economy.

Currently, Google says its AI maker is not advanced enough yet to compete human engineers. However, this may be no longer true in the coming years given the speed at which AI is developing rapidly.

SREENIJA (CSE –A 2/4)

BLUETOOTH V2.1

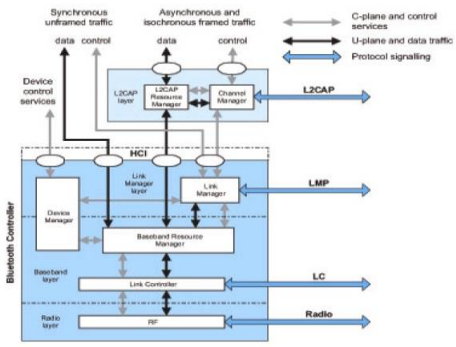


Fig 3.1 – Bluetooth Architecture

Bluetooth wireless technology is a short-range communications technology intended to replace the cables connecting portable and/or fixed devices while maintaining high levels of security. The key features of Bluetooth technology are robustness, low power, and low cost. Each device can simultaneously communicate with up to seven other devices within a single piconet.

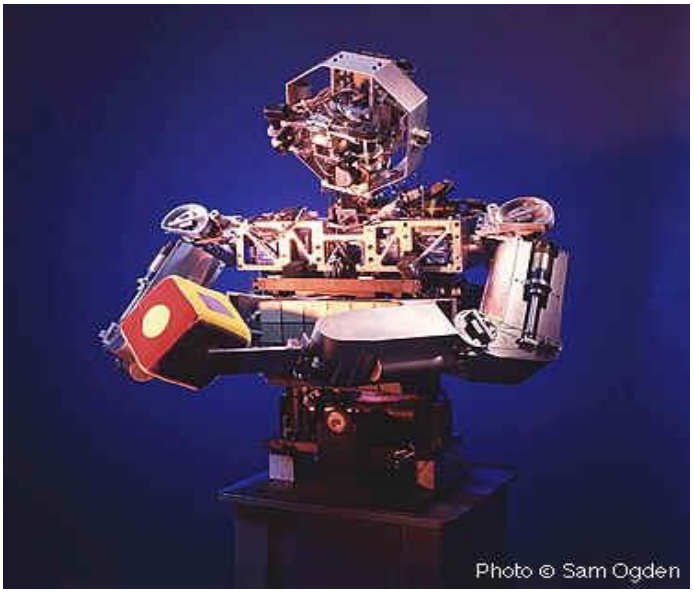
The Bluetooth specification defines a uniform structure for a wide range of devices to connect and communicate with each other. Bluetooth technology has achieved global acceptance such that any Bluetooth enabled device, almost everywhere in the world can connect to other Bluetooth enabled devices in proximity. Bluetooth enabled electronic devices connect and communicate wirelessly through short-range, ad hoc networks known as piconets. With Bluetooth, short range is actually a benefit, because it reduces the chance of interference between your Bluetooth devices and those belonging to other people nearby

SANTHOSH (CSE-A 2/4)

ROBOTIC PROCESS AUTOMATION

We have evolved from room-sized mainframes to laptops, from using stick shifts to autonomous vehicles, from personal assistants to virtual assistants, and to so much more in just the blink of an eye. The fast-paced technology-driven world has made our lives extremely convenient now. We see breakthroughs happening in our lives with technological applications doing the heavy lifting most of the time. This level of sophistication and ease is only possible because of industries becoming digitized. The ultimate aim - to have increased efficiency, enhanced accuracy, improved customer satisfaction and optimized workflows - has engaged organizations to invest in automation and operating tools. One such automation tool that is widely used today is robotic process automation. Designed to take up low-quality jobs, robotic process automation has helped organizations reduce human errors significantly. Low to no manual errors have led to increased productivity, ultimately profiting the industries in business and revenue growth. Hence, organizations across the world are largely deploying robotic process automation, which is why its market size is expected to hit 3.11 billion dollars by 2025.

Robotic process automation tools are applications that run predetermined codes to carry out a specific set of tasks. For the tool to provide accurate results, it should be fed with the right inputs. Inputs should be in an understandable manner, which means the data should be in a structured format. If the tool is fed with unstructured data, the tool will not understand how to analyze the data in the first place. To add to the complexity, most of the data that organizations collect is in an unstructured format. Hence, to make the most out of all the data gathered, organizations are opting to make automation tools capable of not only handling workflows smartly but also making decisions.



HARSHINI (CSE-A 2/4)