===A Generic Model for Smart House Remote Control Systems with Software and Hardware Simulators

-The paper presents a generic model of a smart house remote control system accesible with both web and mobile acces, all togethger via a software simulation.

-The main modules of the system are the processing and controlling center, display and remote control module, hardware module, and simulator module.

-comunication between the devices can be done using both gsm messages or network wap web-based remote control center

===Smart Home Automated Control System Using Android Application and Microcontroller

The system was created using an arduino board, comunicationg via a bluetooth adapter. Purpose of the build was designated to safety and controlling house electronics, also monitoring details about what weather or home incidents like a fire.

I also want to add solar power eficiency automatisation

-light sensors(Automatic light adjustment)

-movement sensors

Connection can be done using port forwarding over the network, once succeded, lots of features can be implemented.

===IRJET\_Implementation\_of\_Voice\_Based\_Home

Also voice commands could be implemented

===Solar Tracking System

How to implement solar tracking for maximum eficiency

===AI-BasedSeamlessVehicleLicensePlateRecognitionUsingRaspberryPiTechnologyPaper

* Implementing a notification pop-up that a vehicle arrive, allowed vehicles access, etc

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Arathi Reghukumar and Vaidehi Vijayakumar describes a "Smart Plant Watering System" that uses sensors to monitor environmental conditions like soil moisture, temperature, pH, and humidity to make decisions about when to irrigate plants. The system also includes features such as flame detection and email alerts to notify users about the health of the plant or potential dangers like fire.

Hardware: The system is built using an Arduino UNO microcontroller, various sensors (soil moisture, pH, DHT for temperature and humidity, and flame sensors), a Wi-Fi module (ESP8266), and a motor driver IC.

Software: Sensor data is processed using Arduino code, and results are published to the Adafruit IO platform using the MQTT protocol. The FindS algorithm is used to generate hypotheses about plant health based on the sensor data.

17-20 valabila profa august

Raspberry Pi 5 if possible

5V 3A Power Supply or something similar

DFRobot Gravity Analog Anti-corrosion Waterproof Capacitive Soil Moisture – moisture sensor

DS18B20 - Temperature Sensor

MCP3008 Analog-to-Digital Converter - converts the analog signal from the soil moisture sensor to digital  
5V multiple channel relay module

4.7kΩ Resistor - required for the DS18B20 temperature sensor

Wi-Fi Module (optional if not built-in)

Real-Time Clock (RTC) module (optional)

TSL2561 Digital Luminosity Sensor

BH1750 Ambient Light Sensor - connects via I2C(onboard pins)

LDR (Light Dependent Resistor) together with another MCP3008

TCS34725 RGB color sensor

PIR Motion Sensor - connects via GPIO pins(onboard pins)

DHT22 (AM2302) digital temperature and humidity sensor

BME280 Digital Temperature, Humidity, and Pressure Sensor, Another MCP3008

Latex related work

Acces fafcultaste