**Building Smart-Home With Artificial Intelligence**

Smart-home with AI is expected to replace today smart-home, It makes your life more convenient, modern, save resources but still make sure you will be taken care of in full way and the service fee is suitable for everyone.

You are living in Technological revolution 4.0. As you can see, technology go through your life, apprear in everywhere, everytime, it effect so much. Let’s make a comparison between the life of ten years ago and now. Technology constantly develop, beside, its revolution is very fast. Now you can see everything have technology. It help you everything, increase labor productivity, make your life more convenient. Now, smart-home control your home through remote device like smart phone or ipad. That is not really convenient. With AI smart-home, you totally communicate with your home through your voice. So building AI smart-home is quite necessary.

So what is smart-home? Smart-home is the home which is equipped with advanced automatic system for controling the light, temperature, multimedia, security, curtains, doors and more function. It make the life more convenient, safe, modern and contribute to using reasonable resources. Today smart-home just is remote controlable home, AI is not yet intervened in it. Well “Smart-home” is not exactly what it means. The real “smart-home” should have intervention of AI. All furnitures is connected to the internet and are managed by AI through people. That is the future of Smart-home. The scope of the research is just research on AI and connection of it with others device, but not research on the electric devices.

Smart-home is need a smart butler. It is a robot and the robot uses artificial intelligence operate like center controller. The first hypothesis is presented, if you go out for along time, how does your home manage all things? Like Siri on Iphone or Jarvis of Iron Man. It control everythings after it ask you for some advices such as watering garden when it seems like wither, feeding your pets or some thing like that. About security? Robot automaticly lock the door when you go out, and when you come back it will check your face by face recognition system. Everytime your friend or relative come your home, robot will remember all their face when you comfirm that is real acquaintaince. If someone try to sneak in your home, Robot will notify you wherever you are, robot will automatic lock all the door in home to ensure your safety and call to the police if you accept. When the fire happen, depend on fire level is high or low, if the fire level is high, Robot will turn on fire system, the fire level is low, Robot will ask you for advice, turn on fire system or you will do it manualy. That help you saving the resources. Can it help you sort your work? Of course, if you want to sort your work, you can talk to the Robot and it will sort in the convenient way. It can notify you one hour before that work is happened, you can also adjust the time if you want. Can it help you everything? Yes. When you need a cup of coffee or something like that, your work is just put it in right position and talk to Robot. Robot will do it for you. You can say "look for the soundtrack of this movie", "turn off the TV when the program ends" without repeating the name of the show or notify traffic and weather status when you go out. It can adjust the temperature in the room to suit for the outdoor temperature. When you is not happy, Robot will chat with you.

Let’s imagine, someday, you wake up in the morning and your alarm goes off, a important apointment is wait for you. If Robot is not in your home, bad thing will happen. With Robot you don’t even need a smart phone in your home, all the call will be manage by Robot. What’s happen when the power outage, system will use power form sun power or generator. Robot will remember all the special day like birthday and it will congratulate when that day coming up. In common, robot is like a family member.

AI smart-home have a lot of electric devices, it apprear in everywhere in the home. Center of AI smart-home is robot which use artificial intelligence. It is like the brain of the home and you control your home through that robot. Smart-home will have some systems to serve AI such as flame sensor, smoke sensor to alert the fire. Pipe is under the wall to transport water and the automatic fire fighting system to make the fire goes off. The temperature sensor help robot adjust temperature to suit for you. Internet system is constantly connected to make sure you can speedly update the last news. The face recognition system will install in gate and in some important room to ensure security. Motion sensor help us follow all the motion in the home. Special, speech recognition system will remember all voices which were registed. Through your voice you can talk to the robot and control your home. AI robot will always learn your behavior and make sure when you come back home after the long day, the house will be cool, some your favorite music will be turned on.

The AI smart-home is rebuilded from the beginning to suit for all support devices, sensors. This stage need about four months to complete. Developing a robot which use artificial intelligence, connect all these devices to the internet and to the AI. Needing about almost 6-7 months to complete this stage. Next stage is test to make sure it will haven’t problems. This stage also need about one week.

The future of smart home: how homes powered by artificial intelligence will know & care for you. Source: www.forbes.com