Intelligent Automation in Small Solar Home Systems

Smarter Power for the emerging world



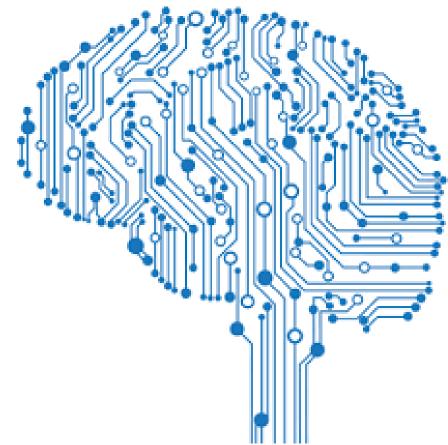


Snehar Shah September 2016

Artificial Intelligence: Smart Solar Power

"The science of making computers do things that require intelligence when done by humans"

- New application of AI to solve common problem
- Machine-learning algorithm based on AI
- Matching individual demand to on-site household level production offers greater energy efficiency and customer control to enhance the individual solar power experience



• Example of "reverse innovation"



HomeSmart[™]: adaptive smart metering

- Monitors customer usage to determine a typical expected performance
- Monitors climatic conditions and automatically adjusts the light brightness to meet the user's expected lighting duration
- HomeSmart brings anxiety-free "permanent light" to consumers for the first time





Customer Benefits

- Ensures the customer has reliable power
- An 'invisible' technology in the background
- Requires no customer input or understanding
- Quad solar home system with HomeSmart is unlocked for use by top-up credit
- No increase in the cost of the solar home system to the consumer





In a developed nation, intelligent automation may save around 25% of energy costs...

In a developing nation for off-grid communities it is often the difference between being able to see at night and not.

• Al is finding application in low cost energy systems in emerging markets, managing the precious energy resource in remote areas where there is no grid





