

Claims:

1. A proxy interpreter system controlling a legacy machine using artificial intelligence connected to a PC control system, the proxy interpreter system comprising:
 - 5 a server, communicatively coupled to a PC control system through multiple channels such as inputs and outputs, which operates the legacy machine, receives and sends operating commands through hardware interfaces such as Ethernet, USB...etc, teaching sequences and respective responses with reference to an image displayed on a display terminal; said operating commands being with
 - 10 respect to the image; and
 - a Reinforcement learning module arranged to
 - learn and store the operating commands and sequences as part of a process triggered by an operator when setting up and configuring the legacy machine through the hardware interfaces; and
 - 15 create an operating flow for the operating commands related to the process, such that the proxy interpreter can operate the legacy equipment with no human intervention.
2. The proxy interpreter system according to claim 1, wherein the hardware interfaces include, the Input/Output ports, USB ports, Ethernet port, VGA port,
 - 20 Mouse, Keyboard and Display interface, to operate the legacy system through the PC control system, and are utilised to learn & create domain knowledge required to operate the legacy system.
3. The proxy interpreter system according to claim 2, wherein the proxy interpreter may reside as a software module within the PC control system that is controlling the

legacy system and utilise its interfaces to learn and create the Domain knowledge required to operate the legacy system.

4. The proxy interpreter system according to claim 2, wherein the proxy interpreter accumulates the domain knowledge from interactions with the legacy system through commands and responses monitored through the various interfaces for all operating states of the legacy system.

5. The proxy interpreter system according to claim 4, wherein the commands and responses stored in a recipe file for a specific device type, are acquired from keyboard commands and mouse movements made by a human operator with reference to the image on the display, combined with the relevant responses received on the Ethernet and I/O interface from the legacy system to the proxy interpreter to create the Domain knowledge for the legacy system.

6. The proxy interpreter system of claim 4, wherein the Domain knowledge created through an application of deep learning techniques and continuous reinforced learning, is subsequently utilised to operate the legacy system without an intervention of a human operator.