**A Model for Types and Levels of Human Interaction with Automation**

Automation refers to full or partial requirement of a function previously carried out by human operator.

**Acquisition automation** – for sensing and registration of input data.

At low level, it is related to strategies for mechanically moving sensors to scan and observe.

E.g.- Radar in aircrafts.

At moderate level of automation - organising the incoming data under some criteria. E.g.- priority list.

**Analysis** **automation –** consists of working memory and inferential processes.

At low level, algorithms are applied for automation.

Higher level – involves integration in which several input variables are combined into a single value.

**Decision automation –** selection among decision alternatives. It involves augmentation or replaces human selection of decision options with machine decision making.

**Action** **automation –** consists of different levels of automation and replaces hand or voice of the human. It involves relative amount of manual vs. automatic activity in executing the response.

