

6<sup>th</sup> World Convention on

## ROBOTS, AUTONOMOUS VEHICLES AND DEEP LEARNING

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**Artificial intelligence in robots****Rohan Salgarkar**  
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In field of robotics, industrial robots are specially designed for performing repetitive tasks, tasks that do not change for considerable time period and can be programmed to bring in consistency, precision and augment production time-lines. Till date, companies have been successful in designing and manufacturing such robots that have multi-dimensional axis movements and have payload handling capacity that may extend beyond 2000 kg. Such robots have found applications majorly into automotive sectors and are making rapid strides into other sectors such as chemicals, mining and metals. Embedding AI in robots can create wonders for manufacturing or production systems and will be influential in setting a new precedence in the field of industrialization. Companies are making rapid advances in cognitive ability of robots, ability to recognize size, color, shape and material and then apply relevant processes that have been acquired from repeating such processes in the past will rocket the robots to next level. Traditional robot manufacturers have tied-up with companies developing AI solutions or platforms that will help them in generating and analyzing data from the processes and try to establish patterns, which will aid in increasing the efficiency of robots. Until now, we have had three eras of industrialization and now are in the 4<sup>th</sup> era of disruptive transformation, by the time we complete this phase, we would have been successfully eliminating humans from the factories carrying out routine jobs. Impact of new technology on both production systems as well as human labor is visualized to be dramatic. In western part of the world, where the labor cost is relatively higher in comparison to some of Asian countries, robots are set to replace such labor.

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