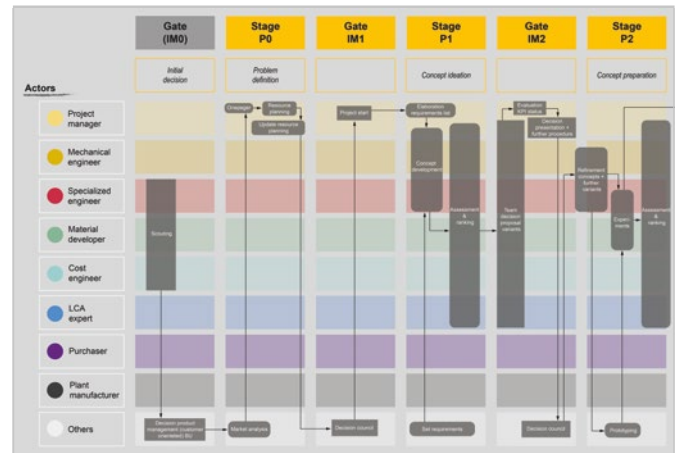
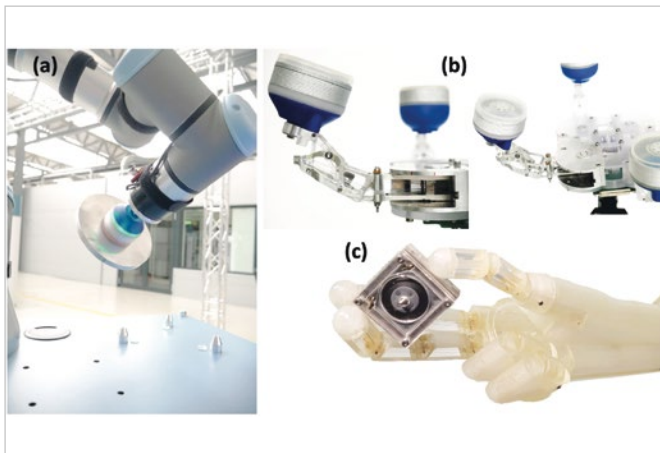


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**8** **Artificial Muscles and Nerves in Industry 4.0 – Multifunctional Actuator Sensor Systems with Shape-Memory Alloys (SMAs) and Dielectric Elastomers (DEs)**  
 Within the concepts of Industry 4.0, the term “Smart Factory” stands for the creation of effective production environments through digitalization and cyber-physical systems. Most manufacturers plan to make their manufacturing systems more automated, flexible and adaptive. In the course of these efforts, intelligent materials are increasingly brought into focus.

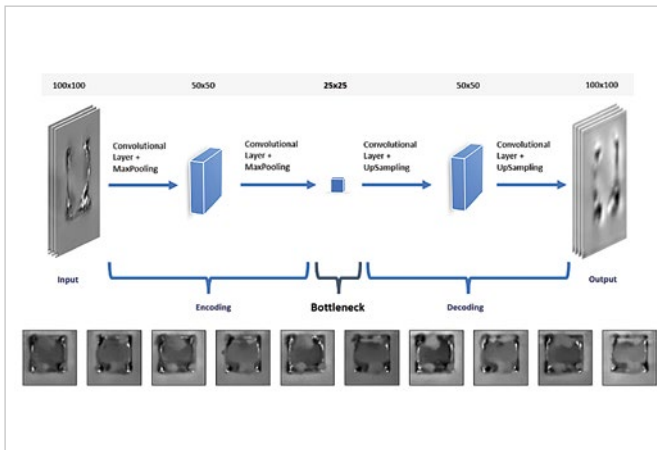
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