## ROBOTS, AUTOMATION AND VIRTUAL REALITY IN MANUFACTURING

## **Augmented Reality for Human-based Process Support**



- Guidance for shop-floor operators using Augmented Reality technology
- Automatic generation of assembly instructions
- XML description of product and process semantics
- Repository of process tasks
- Process tasks are a combination of tools (e.g. wrench) and actions (e.g. screwing) that form a set of virtual instructions templates

**REF:** S. Makris, G. Pintzos, L. Rentzos, G. Chryssolouris, "Assembly support using AR technology based on automatic sequence generation", CIRP Annals – Manufacturing Technology, Volume 62, No. 1, pp. 9–12 (2013)