

ITALIAN INSTITUTE OF TECHNOLOGY AND ANSALDO
ENERGIA: AGREEMENT TO DEVELOP NEW ROBOT TECHNOLOGY

The research contract between IIT and Ansaldo Energia covers the development of a robot inspection system for electric generators and an artificial vision system for combustion chamber control in the big turbines produced by Ansaldo Energia

Genoa, December 13, 2016 – Ansaldo Energia, one of the world's leading players in the power generation sector, and IIT, the Italian Institute of Technology, today signed an agreement to develop new robot technology.

The 18-month project will be entrusted to a team of eight researchers, including senior scientists, engineers and post-docs in the departments of Advanced Robotics, directed by Darwin Caldwell, and Pattern Analysis and Computer Vision, directed by Vittorio Murino.

The research work covers the development and realisation of a robot inspection system for electric generators and an artificial vision system for combustion chamber control in the big turbines produced by Ansaldo Energia.

The robot system will use new generation sensors to inspect electric generators and diagnose the cause of any defects or failures, as well as being able to adapt easily to the various sizes and types of machines existing on the market.

A prototype will therefore be developed for a system to inspect the lining of a turbine's combustion chamber, for the purposes of helping the operator or replacing it in high risk situations.

This would be the first automatic inspection system for this type of plant.