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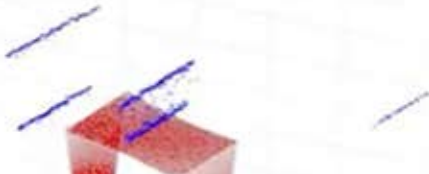
Computer Vision & Automation for Industry 4.0

Seminar by Carlo Alberto Avizano - The Institute of Mechanical Intelligence

Sant'Anna
Scuola Universitaria Superiore Pisa

ABSTRACT

The seminar will discuss recent applications of computer vision in Industry 4.0, covering different topical aspects: system integrity, system design, computer vision, 3D Vision system, integration of AI.

The presentation will be offered as a showcase, by investigating different industrial applications and examining their internal components. The showcase will include: condition base maintenance for transportation, environment inspection, surveillance, fault and defect checking with AI, robot motion planning with AI supported decision.

BIOSKETCH

Carlo Alberto Avizzano is Associate Professor at Institute of Mechanical Intelligence of Scuola Superiore Sant'Anna, where he leads the groups of Perceptual Robotics and Intelligent Automation. His research activities focus on robot and control systems with high level of skills and cognition that mimic, learn and reproduce human abilities in environment observation, manoeuvring and control while interacting in complex dynamic environments. Avizzano research copes with sensor and data capture, AI and Identification architecture for information discover, intelligent plan and contro.

Application fields spans in different sectors such as robotics for medicine, precision agricolture, surveillance, maintenance, transportation, Industry 4.0, civil and environment protection, simulators, sport.

He is associate Editor of different journals and board member in Regional (transportation), Industrial (Environment Protection), and International Committees (RO-MAN, ENACTIVE, SKILLS).

Ciclo di seminari
La ricerca negli Istituti di Ingegneria della Scuola Superiore Sant'Anna

I seminari sono organizzati nell'ambito della programmazione didattica di Ingegneria '21/'22 a cura del prof. Cipriani

Data
Giovedì 12 maggio 2022
Ora
18.00- 19.30

Diretta streaming sulla piattaforma WebEx e sul canale YouTube della Scuola Superiore Sant'Anna

ISTITUTO DI BIOROBOTICA — Sant'Anna Scuola Universitaria Superiore Pisa

ISTITUTO DI TECNOLOGIE DELLA COMUNICAZIONE DELL'INFORMAZIONE E DELLA PERCEZIONE — Sant'Anna Scuola Universitaria Superiore Pisa

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