

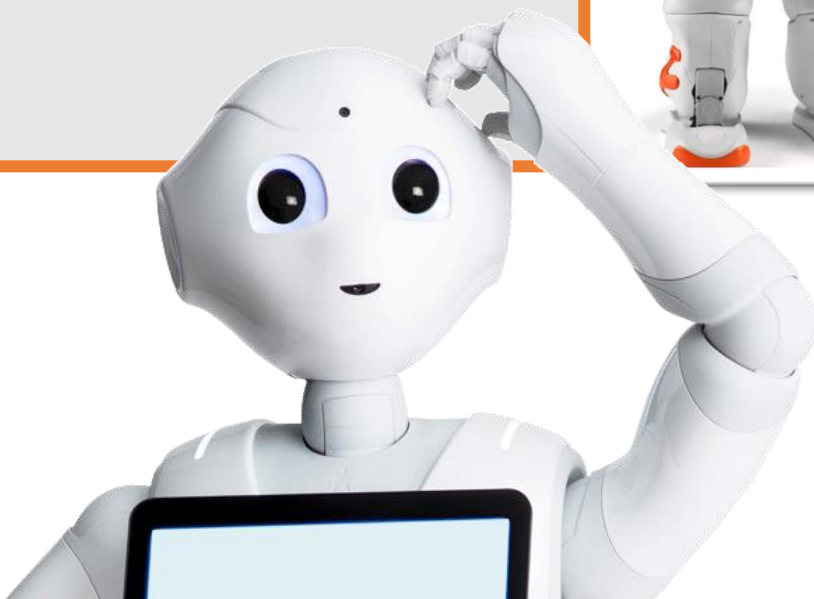
Roboti i bespilotne letjelice na putu prema industriji 5.0



FER **VARICS**

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Tko je ovaj?



Praktikum robotike (preddipl.),
Osnove robotike (dipl.)

Rektorova nagrada, državna nagrada
za znanost

Voditelj FER-ova tima na
natjecanjima European Robotics
League 2019, MBZIRC 2020

Voditelj tima za detekciju na
natjecanju MBZIRC 2023, organizator
natjecanja bespilotnih letjelica na
konferenciji ICUAS

Preko 20 projekata (EU, HRZZ,
suradnja s industrijom)



Voditelj
istraživanja i
razvoja



FER

FER je najveći hrvatski tehnički fakultet te vodeća obrazovna i istraživačka institucija u polju elektrotehnike, računarstva te informacijskih i komunikacijskih znanosti.



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Trenutno aktivno 227 projekata, u zadnjih pet godina:

- OBZOR 2020. – 34 projekta
- OBZOR EUROPA – 4 projekta
- COST – 16 projekata
- INTERREG – 6 projekata
- Europski fond za regionalni razvoj – 81 projekt
- Hrvatska zaklada za znanost – 140 projekata

LARICS

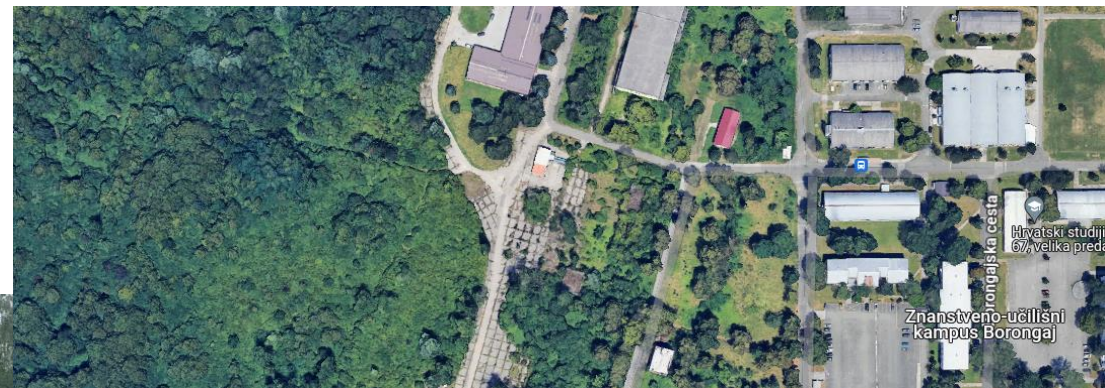
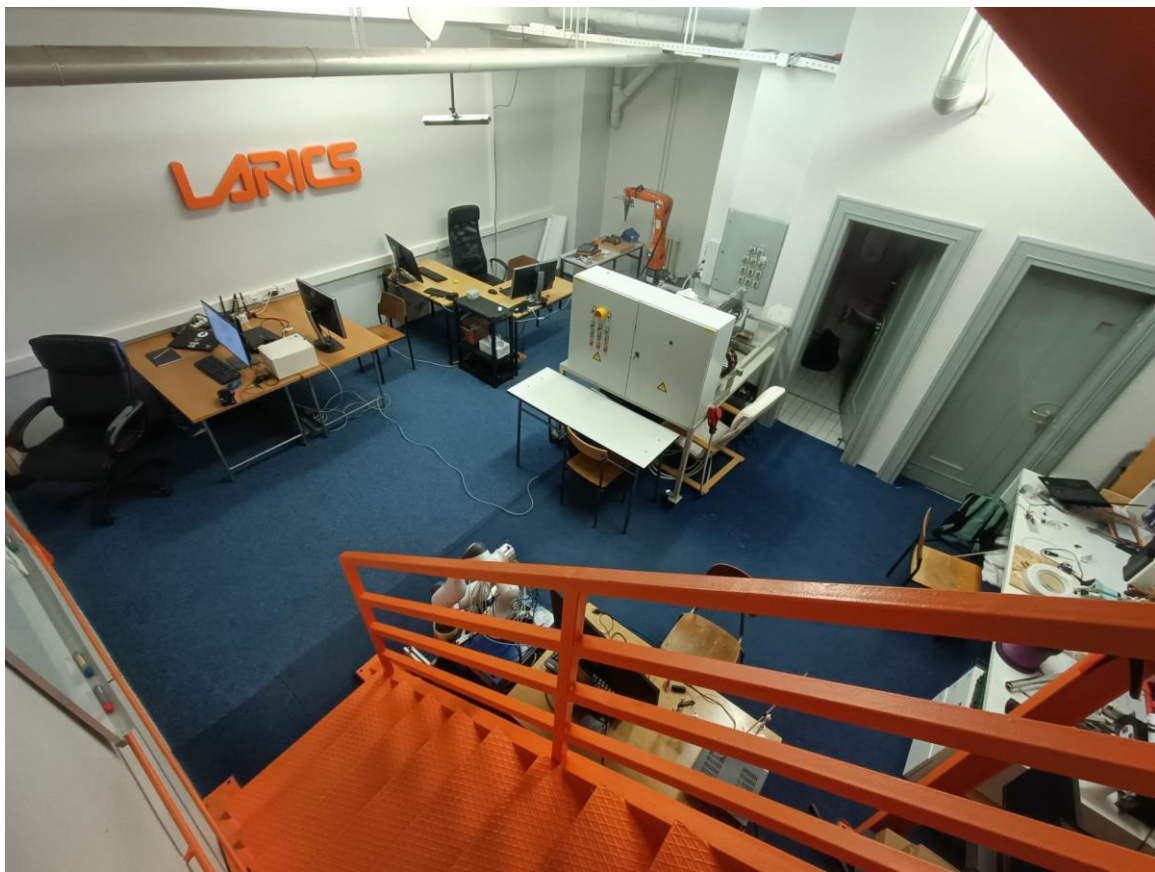
Laboratorij za robotiku i
inteligentne sustave upravljanja



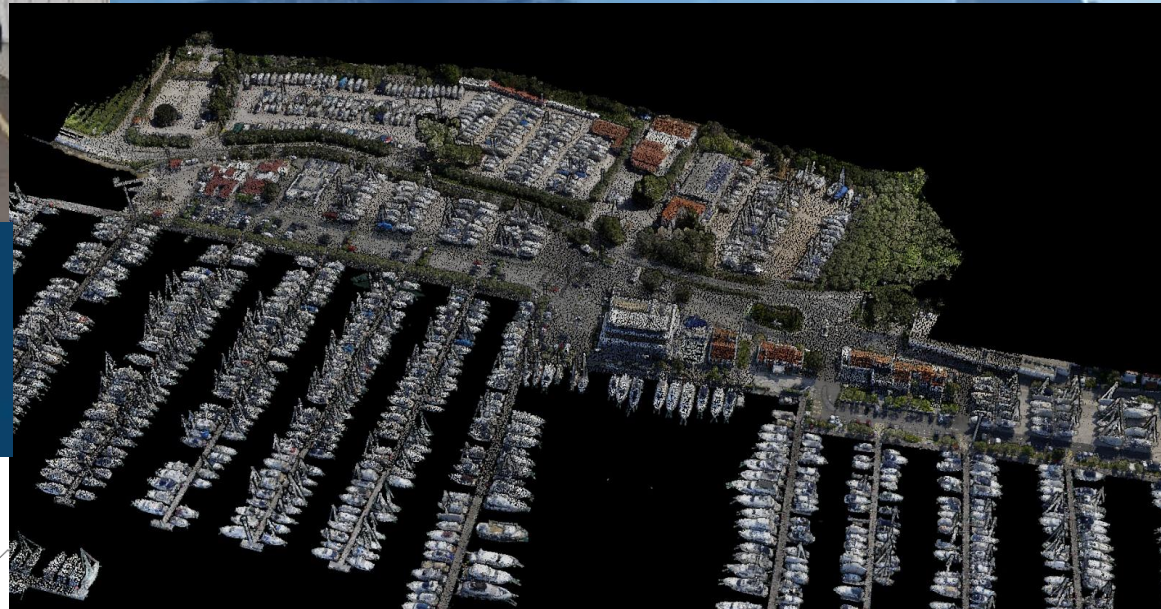
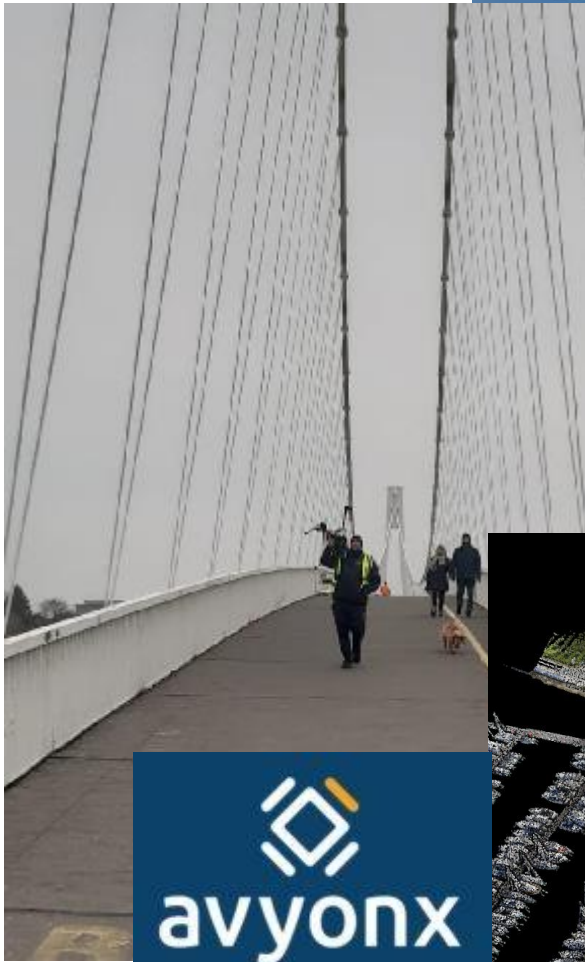
FIRST BEST PERFORMING TEAM

MBZIRC
Mohamed Bin Zayed International Robotics Challenge
powered by **ASPIRE**

Industrija u podrumu, letjelice na Borongaju



Bespilotne letjelice kao zaštita od rada



Robotika se mijenja

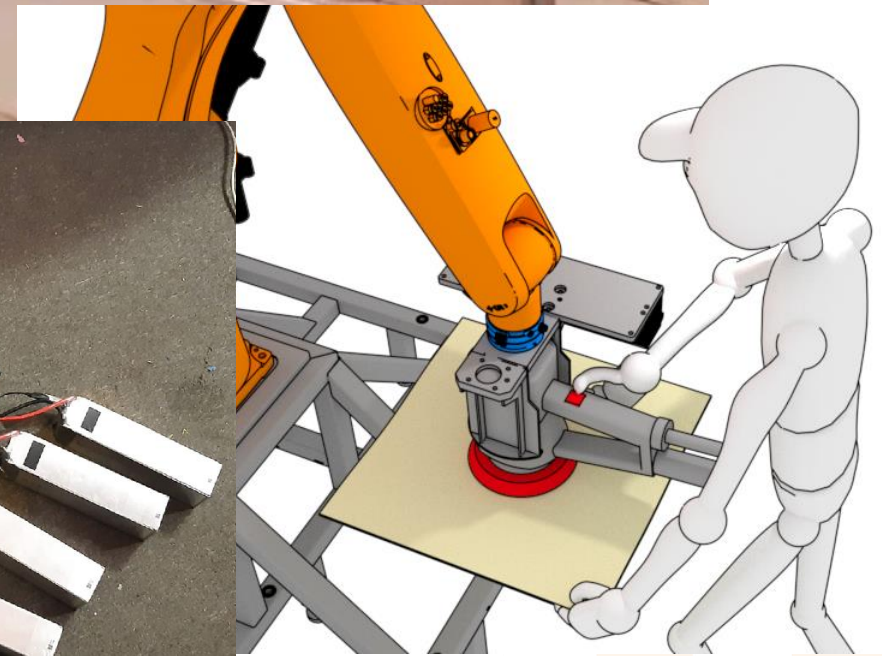
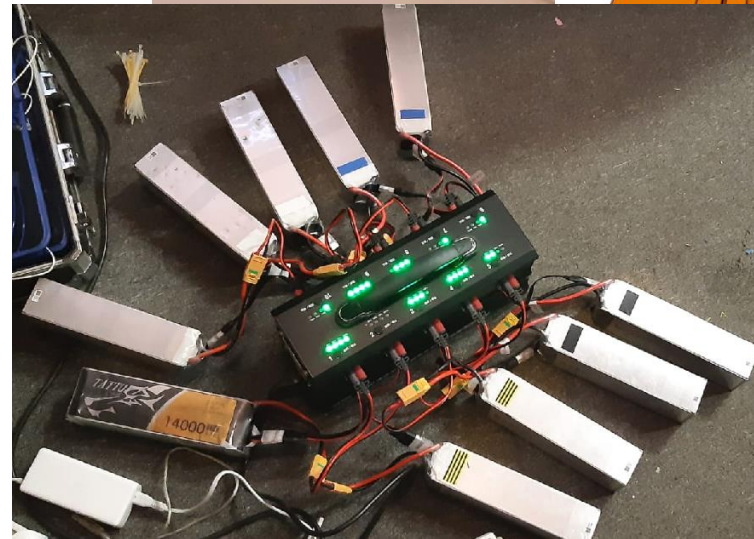
Nekad: zamjena ljudskog rada – DDD koncept

Sad: zamjena ljudskog rada u DDD djelatnostima, rad robota s ljudima u drugim, uslužna robotika

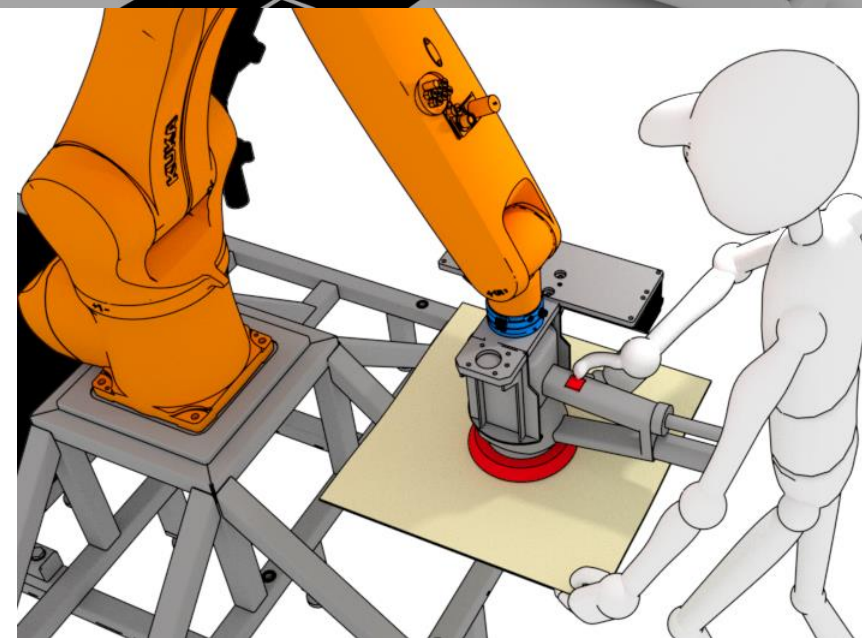
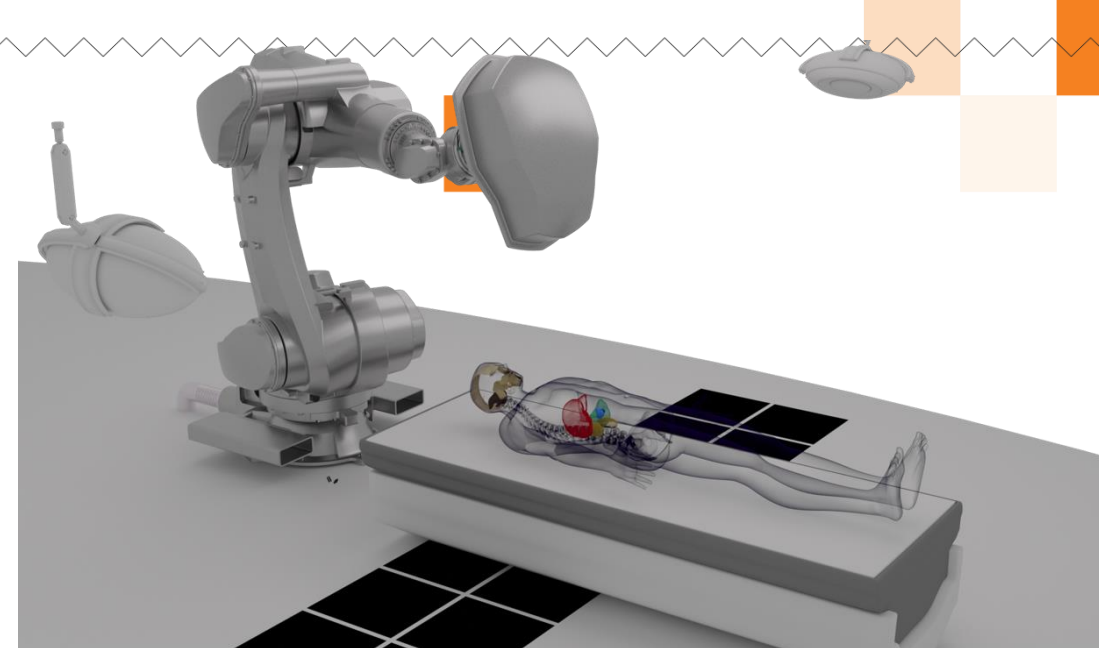
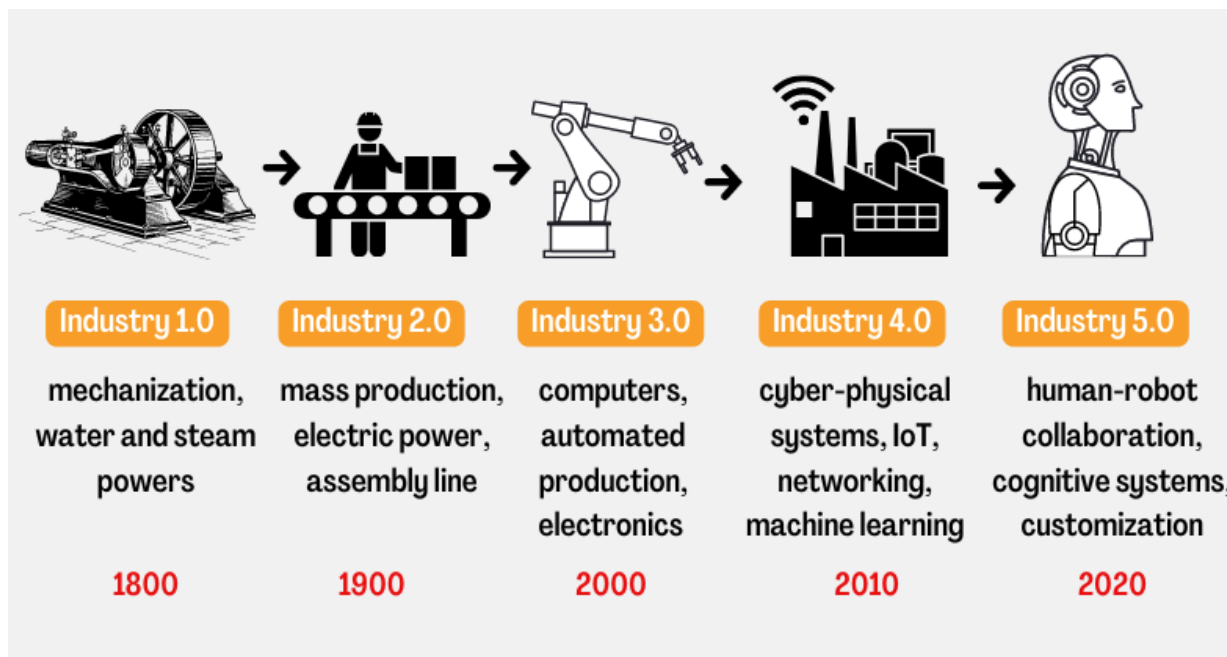
Sutra: eksplozija uslužne robotike i?

Driving factori se mijenjaju

Hoće li roboti uzeti ljudima posao?



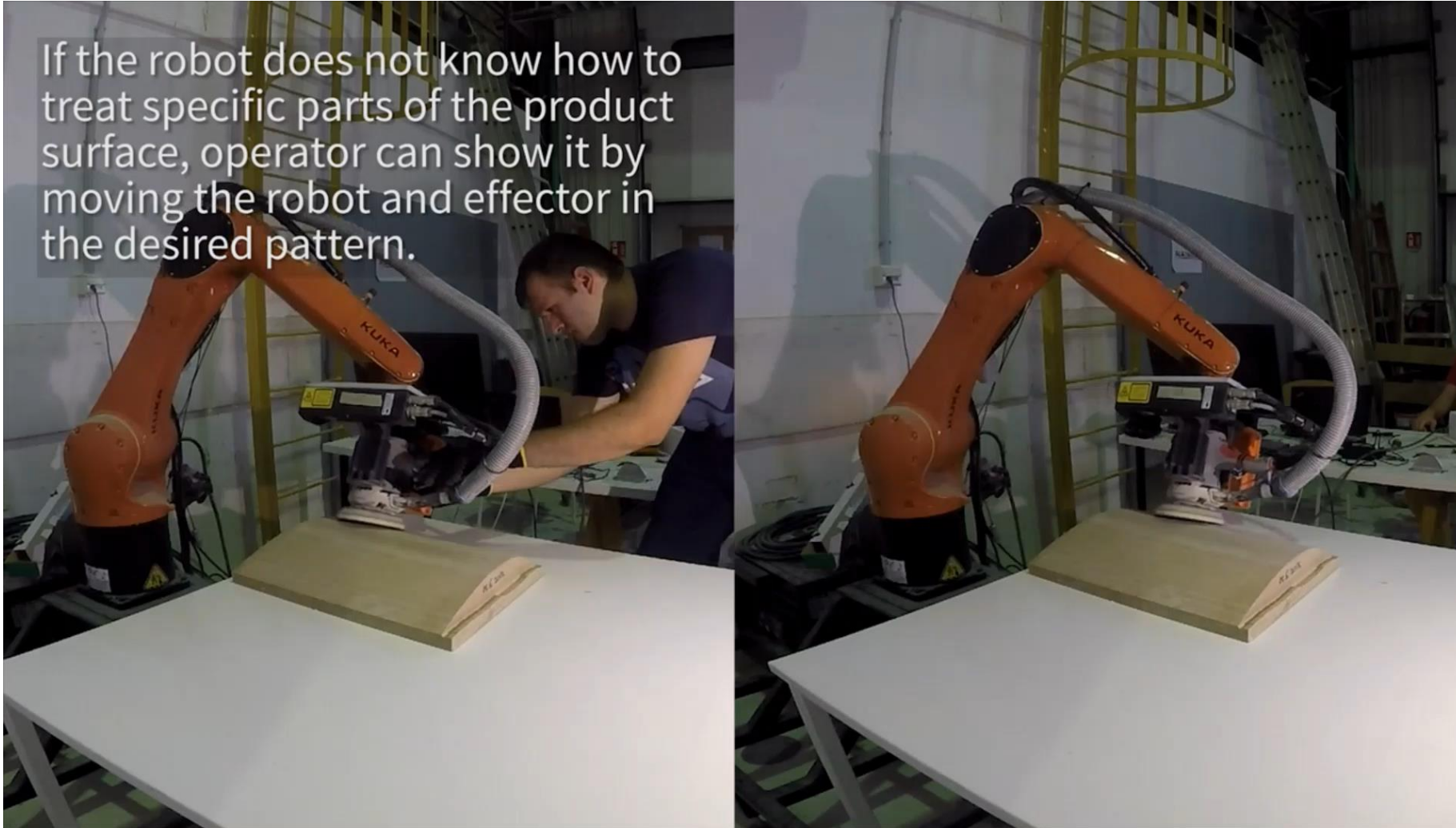
Industrija 5.0



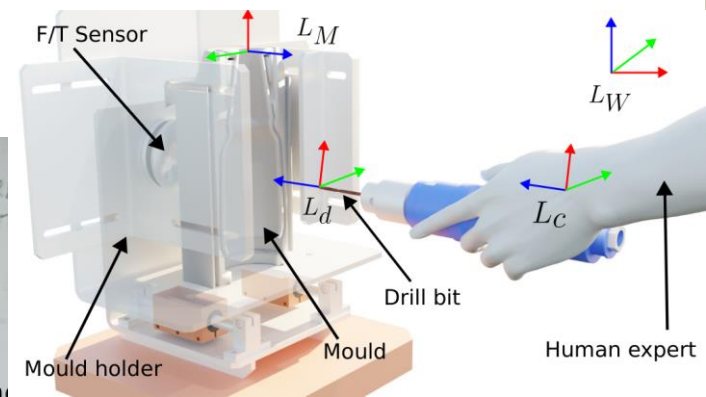
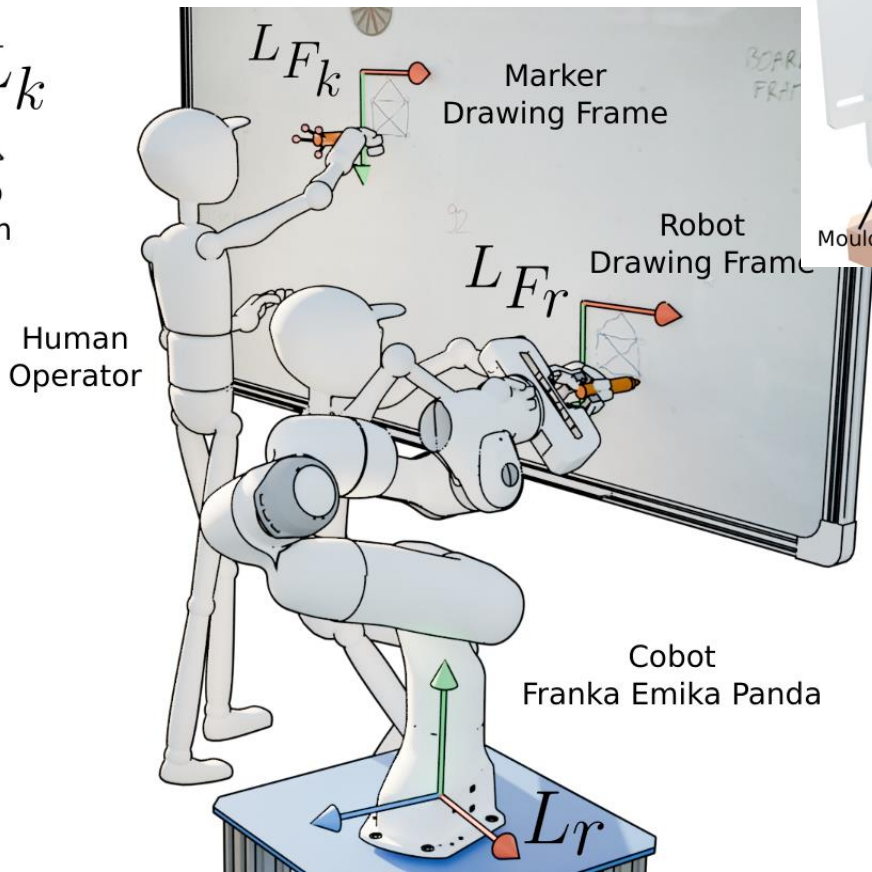
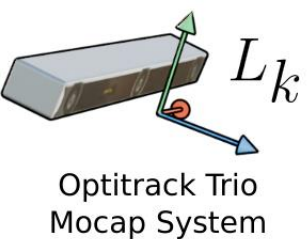
shift from a focus on economic value to a focus on societal value
more sustainable, resilient and human-centric industry

Učenje pokreta od ljudi

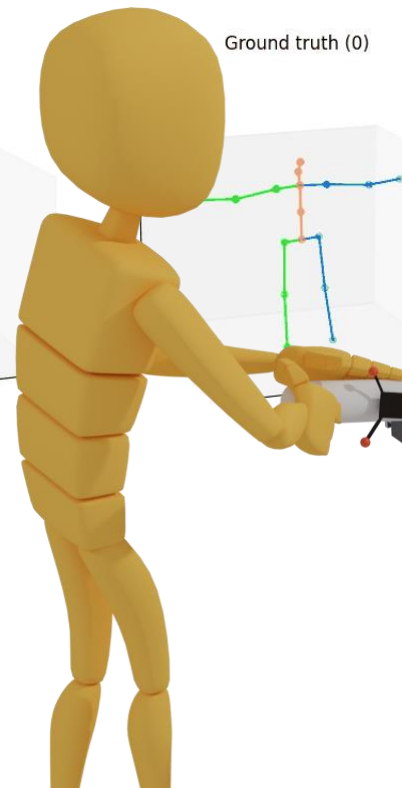
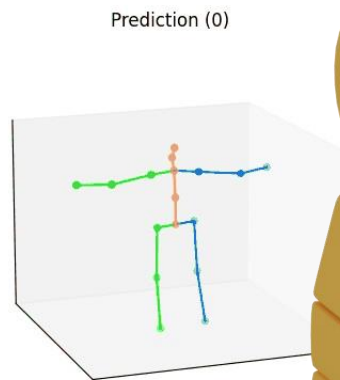
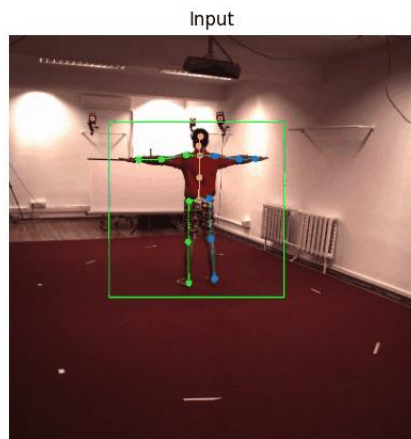
If the robot does not know how to treat specific parts of the product surface, operator can show it by moving the robot and effector in the desired pattern.

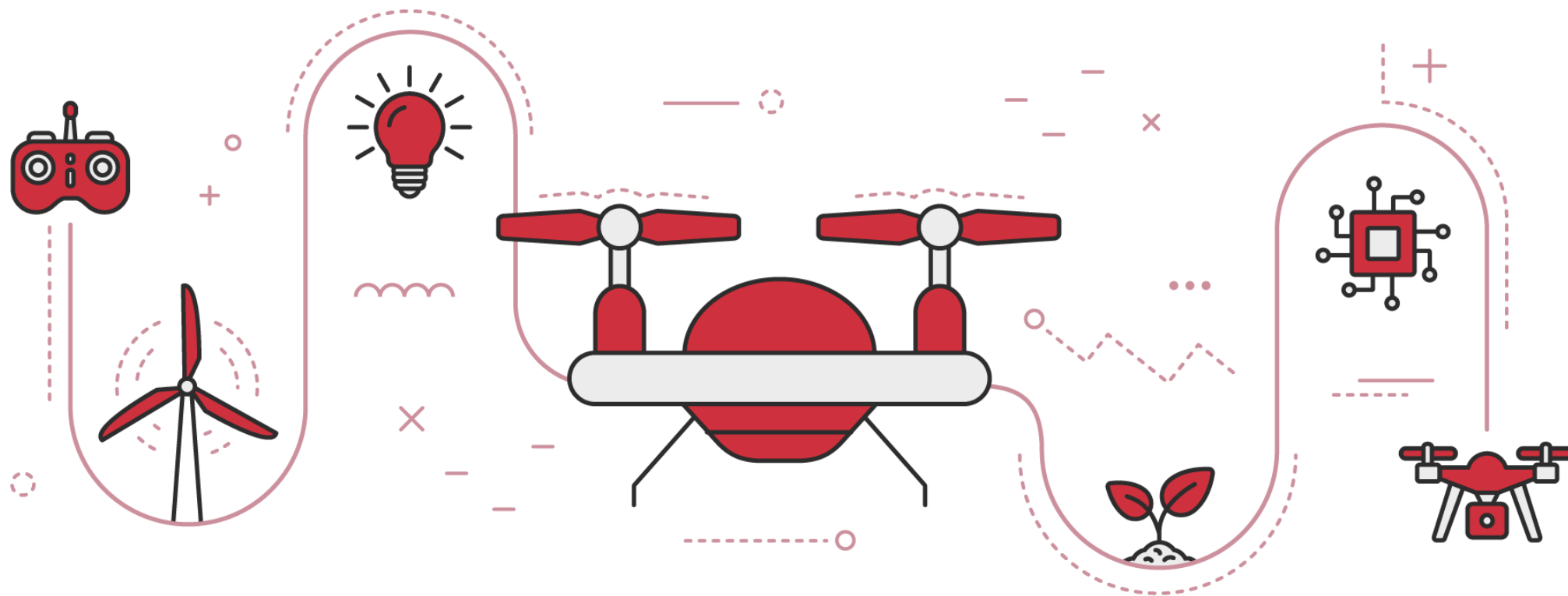


Učenje pokreta od ljudi



Ergonomija





DRONEDAYS 2024

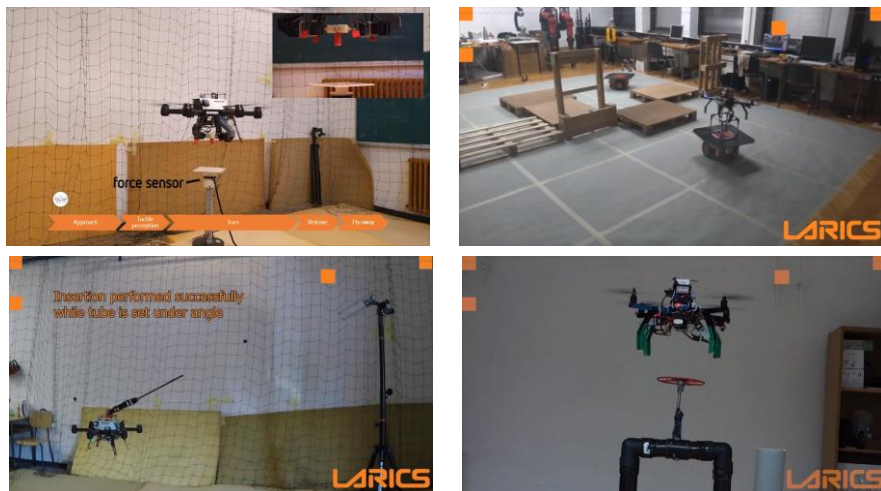
4th AERIAL VEHICLES END-USER WORKSHOP

Fall 2024

Zagreb, Croatia

dronedays.fer.hr





Pitanja?

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DOK-ING

