

ROBOPROX 

WP1

Control and optimization for systems, materials and manufacturing

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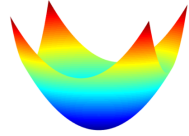
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Robotics and Advanced Industrial Production
CZ.02.01.01/00/22_008/0004590



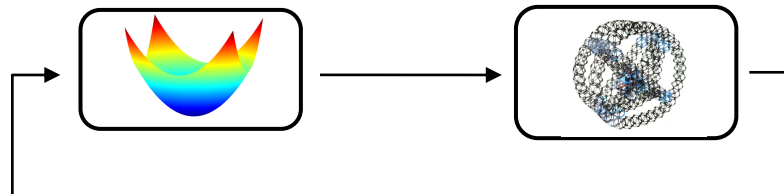
Optimization



Materials

WP 1

Systems & Control



RA 1 Distributed-parameter systems



T. Vyhlídal

RA 2 Control of modular structures



M. Šebek

RA 3 Convex relaxations



D. Henrion

RA 4 Modular materials



J. Zeman

RA 5 Nanoscale surface engineering



T. Polcar

RA 1 Distributed-parameter systems

Time-delay systems
Feedback decoupling
Low complexity controllers
Vibration suppression in robots
Estimation



T. Vyhlídal

RA 2 Control of modular structures

Assembly of modular structures
Control of modular structures



M. Šebek

RA 3 Convex relaxations

Calculus of variations problems
Moment-sum-of-squares hierarchy



D. Henrion

RA 4 Modular materials

Simulation of modular materials
Design of modular materials



J. Zeman

RA 5 Nanoscale surface engineering

Automated nanoscale tribology
Robotic magnetron sputtering
2D material manipulation



T. Polcar

RA 1



RA 5



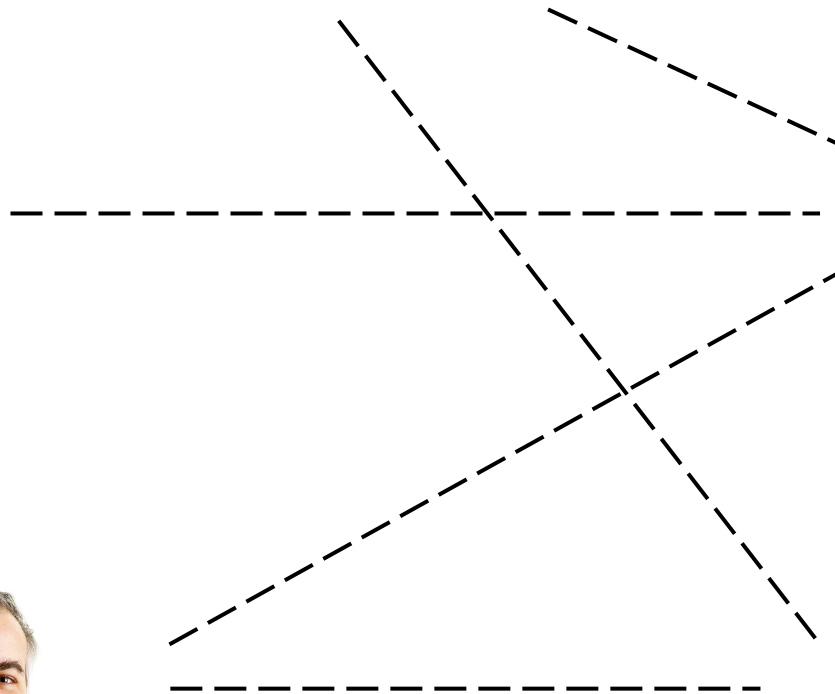
RA 2



RA 4



RA 3



RA 1



RA 5



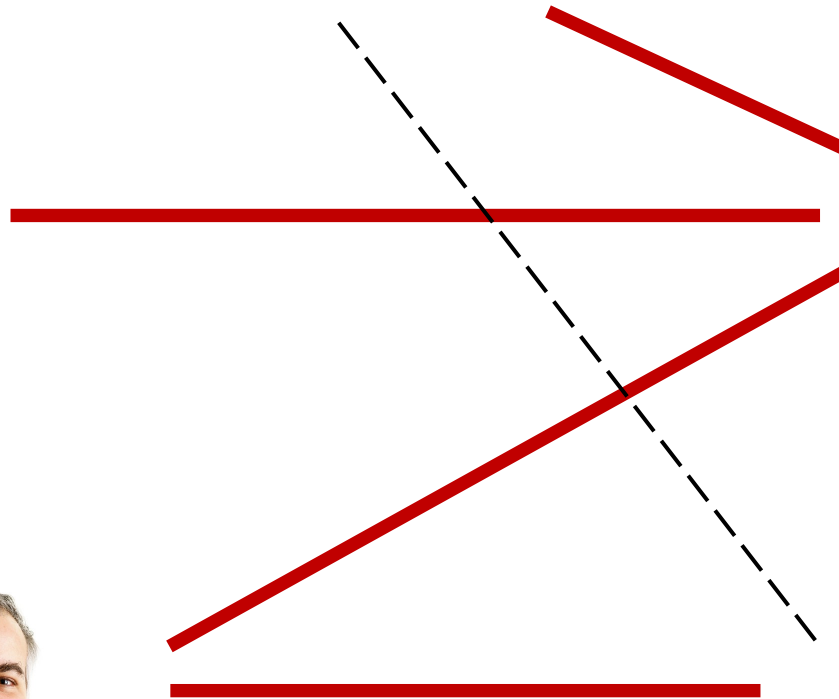
RA 2

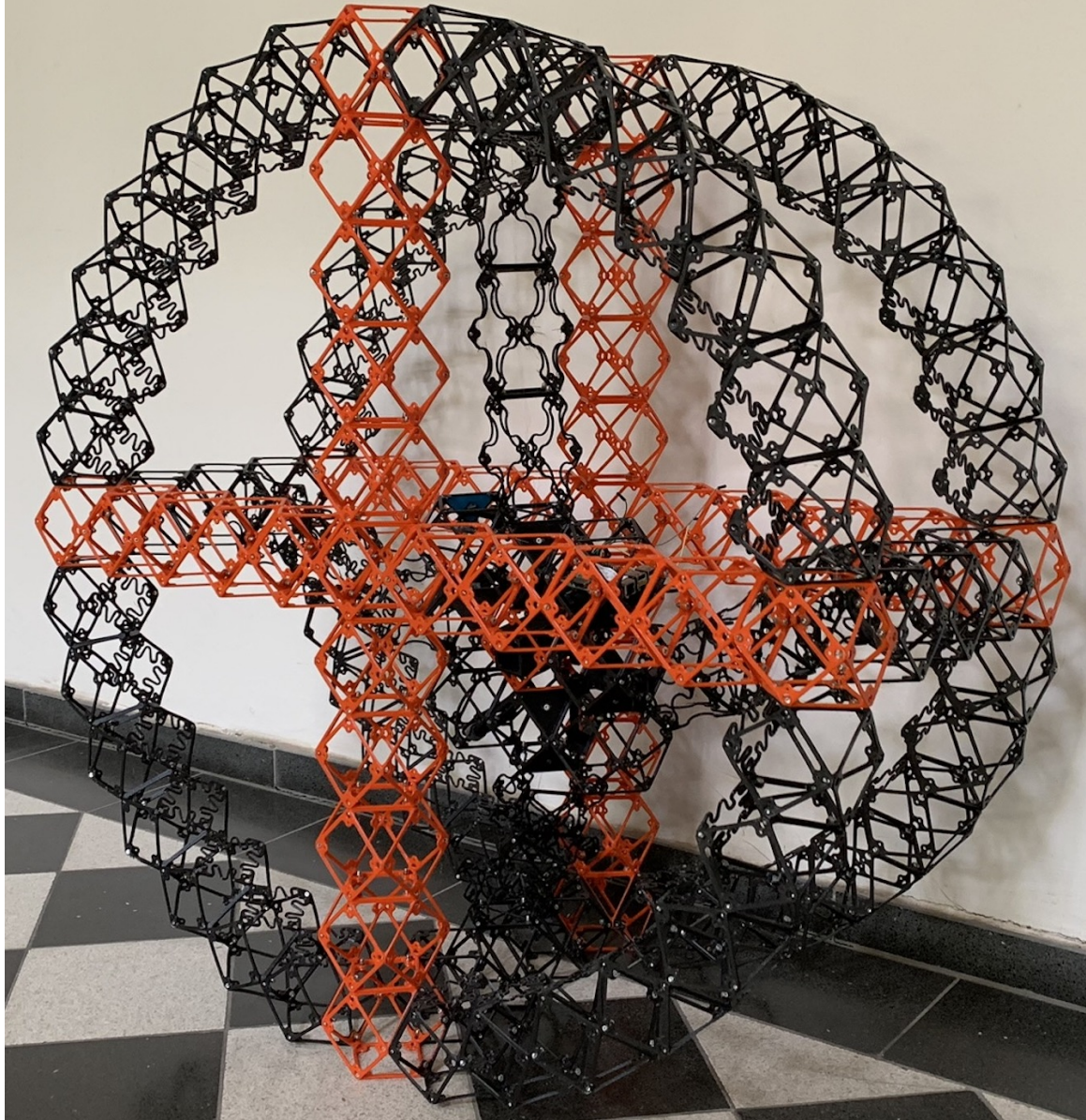


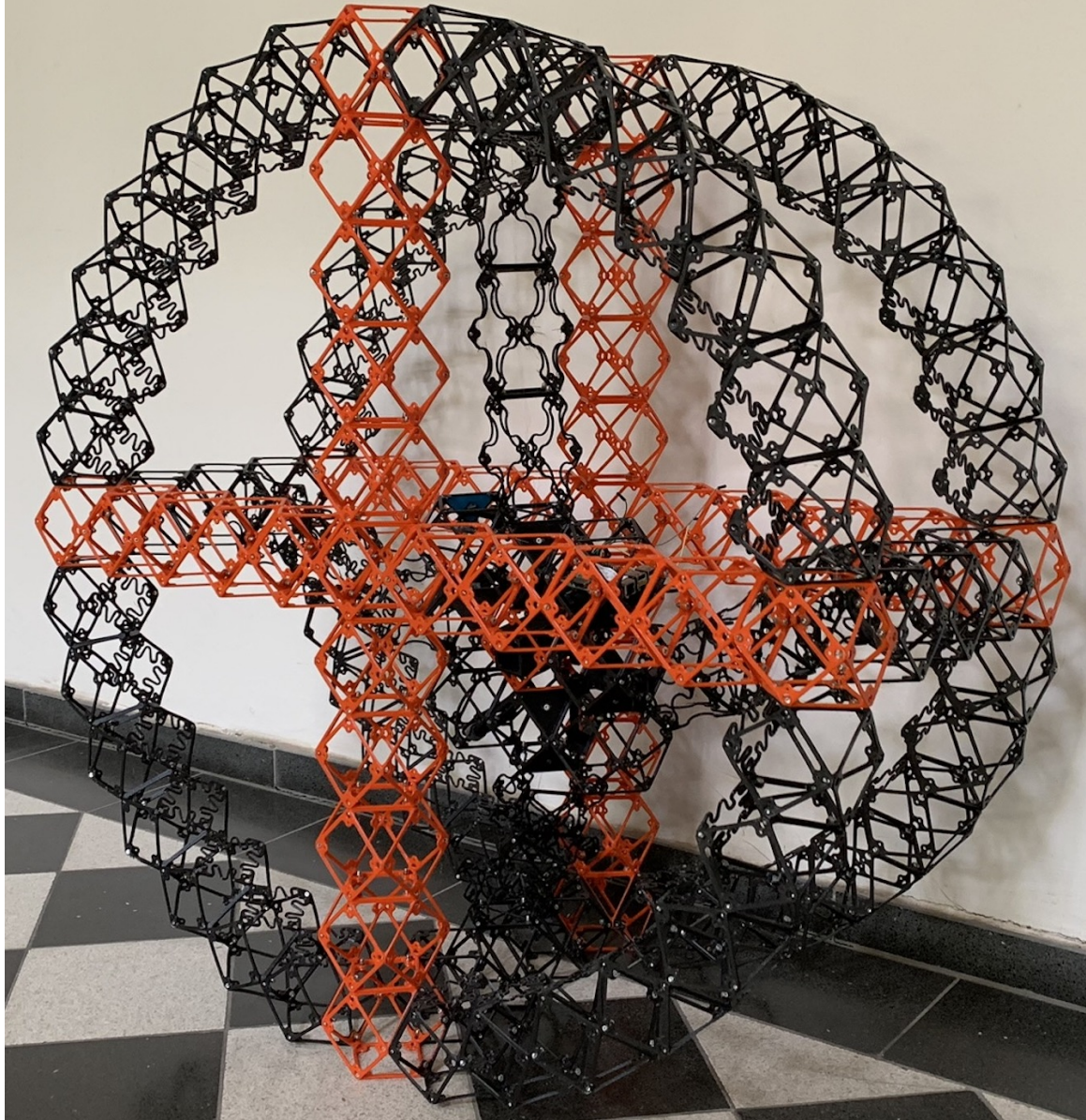
RA 4



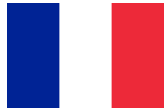
RA 3







Robot Zuzo @ CTU-FEE-DCE, Courtesy of Jirka Zemánek



L2S-CNRS, Paris
LAAS-CNRS, Toulouse



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WP 1



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