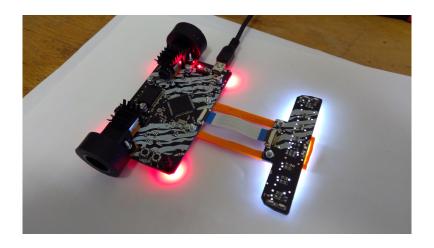
Stručne o súťažnej robotike

Michal CHOVANEC, PhD.

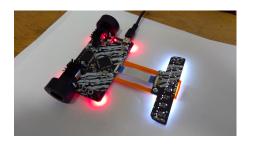
Marec 2018

Fakulta riadenia a informatiky

Stručne o súťažnej robotike

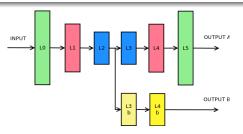


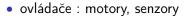
Hardvér



- procesor : ARM Cortex M7, 216MHz
- senzory: 8x 500nm, 3xIR, gyroskop
- motory: pololu, 1:30, micro metal HP

Softvér





 operačný systém : hard real time, max 5ms odozva

 Particularity of P 18 int Arcade::init() IRLEnvironment::init(); obstacle density = 0.1; geometry.w = 19: geometry.h = 5: geometry.d = 1: move state = 0: screen, resize(geometry, h): for (unsigned int i = 0; i < screen.size(); i++) screen[i].resize(geometry.w); for (unsigned int j = 0; j < screen.size(); j++) for (unsigned int i = 0; i < screen[i].size(); i++) screen[j][i] = 0.0; state.init(geometry); iteration = 8;

 inteligencia : PID, PLL, neurónové siete, reinforcement learning

Q&A



https://github.com/michalnand/robotics https://github.com/michalnand/machine_learning

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