

| | |
|--------------------------------------|---|
| Course Name | Robotics : practical views |
| Institution, Country | Military Schools of Saint-Cyr Coëtquidan, France |
| Event aims to the following services | All |
| Type of the event | Course |
| Event period | Monday 2019-11-25 to Friday 2019-11-29 |
| Deadline for registration | 2019-09-13 |
| Short description | After a presentation of the challenges in nowadays robotics and in military robotics, students will learn robotics by a practical approach (sensors, actuators, 3D vision, control of robots, avoidance of obstacle, direct and inverse kinematics, path planning ...). Students will implement the moves on robots with wheels, humanoid robot -Nao- and legged robots. Help from teachers/researchers will be given including parts of scripts to concentrate the work of students on the main interesting parts. Work will be done by groups of students from different countries. |
| Requirements/profile of participants | Bachelor level. Basics of Rigid Bodies kinematics & dynamics, programmation skills (at least basic programming in C, C++, Matlab) and some knowledge in signal processing. |
| Selection of cadets | Because of the great success of this lecture and to allow the maximum of countries to send students, the number of participants is limited. St-Cyr schools will select participants and will send confirmation to selected academy on 09/20. In case of late registrations (after 09/16), we will consider them only if some places remain free. |
| Working language | English |
| ECTS | 2 |
| ECVET | - |
| Workload | 32 h |
| Provided by hosts | This seminar will be financed by the Military Academy of Saint-Cyr. The attendees will be accomodated for free. They will not have to pay for the meals neither. |
| Additional remarks | Our school is 45km from Rennes. We are not able to send a bus to pick each cadet in Rennes on Sunday 2019-11-24. Two solutions: <ul style="list-style-type: none"> - Cadets take a taxi to St-Cyr schools. Price ≈ 90€; - A bus will pick all the cadets in Rennes railway station at 11am and Rennes airport at 11:30am on Monday 2019-11-25. If needed, hotels exist near railway station and airport. You can contact "POC for administrative issues" to get a list of hotels. Departures: Saturday 2019-11-30 morning / Sunday if participation to Austerlitz Ceremony |
| Point of contact | Information on lectures: Yves Bergeon (yves.bergeon@st-cyr.terre-net.defense.gouv.fr) Administratives issues : dai@st-cyr.terre-net.defense.gouv.fr (+33) 2 97 70 75 85 |