

From Practical Training to Remote Practical Training in Robotics: Opportunities and challenges

The purpose of this questionnaire is to describe a practical session for teaching robotics in different pedagogical, professional or academic courses, and to study the feasibility of putting this session in a distance learning plateforme for experimental remote robotics training.

***Obligatoire**

Remote practical training in robotics?

It is a session of practical work that can be done remotely, on real or simulated equipment, through a computer interface. Teachers and learners are not necessarily in the same place, and the equipment may be located in a remote location as well. Connection and communication between the teachers, learners and the equipment are done across the Internet

1. Function *

2. For what type of course training did you teach practical robotics? *

Une seule réponse possible.

- ☐ Academic training
- ☐ Professional training
- ☐ Science activity
- ☐ Autre :

3. In which institution did you perform your training sessions (University, faculty, company, science club, etc.) *

4. The training sessions are performed:

Une seule réponse possible.

- ☐ Independently
- ☐ Simultaneously with another course (theoretical sessions, other practical sessions, etc.)

Information about learners

Details about the people who enrolled into the course

5. To whom is the training session intended?

6. What should be the learners' prerequisites for this training?

Teaching material

7. What is the exact title of the training course?

8. What is the main purpose of the training course?

9. What are the concepts covered in the training?

10. Describe the content of the training course?

11. What type of documents is given to learners?

Plusieurs réponses possibles.

- ☐ Course materials (given during the theoretical sessions)
☐ Sheets and descriptions
☐ None

Autre : ☐ _____

12. What type of documents is required to be provided by the student at the end of the session

Plusieurs réponses possibles.

- ☐ Summary report
☐ Result files
☐ Computer programs
☐ None

Autre : ☐ _____

13. How are students evaluated?

14. What type of activity is done during the sessions?

Plusieurs réponses possibles.

- ☐ Teacher-assisted handling
☐ Exercises
☐ Projects

Autre : ☐ _____

15. Learners are authorized to work

Une seule réponse possible.

- ☐ Individually
☐ In pairs
☐ In groups of 3 to 5
☐ Autre : _____

Tools and equipment

16. What type of environment is used during the practical session?

Une seule réponse possible.

- ☐ Real environment
☐ Virtual environment
☐ Real and virtual environment
☐ Autre : _____

17. What kind of devices is used (whether real or virtual)?

Plusieurs réponses possibles.

- ☐ Mobile robots
☐ Robot arms
☐ Drones

Autre : ☐ _____

18. Describe the used devices

19. How many learners can work on one device?

Une seule réponse possible.

- ☐ 1
☐ From 2 to 3
☐ from 3 to 5
☐ more than 5

20. What softwares are used during the practical session?

Une seule réponse possible.

- ☐ Dedicated Softwares
- ☐ Development environment (Matlab, Simulink, ROS, etc.)
- ☐ None (Low-level programming)
- ☐ Autre : _____

21. Name the software

Organization and Administration

22. How many learners are enrolled into the session?

Une seule réponse possible.

- ☐ less than a dozen
- ☐ from 10 to 20
- ☐ from 20 to 30
- ☐ more than 30

23. What is the number of learners per session that you think is optimal?

24. How are the sessions organized?

Une seule réponse possible.

- ☐ On a schedule
- ☐ Continious
- ☐ Autre : _____

25. How many teachers must be mobilized to complete all the sessions?

26. How many hours are necessary to complete the course?

27. How many hours per session are necessary?

Your opinion

28. What were the main issues encountered during your training course?

29. What are the elements that you consider essential for a training course in robotics?

30. Would you like to put your training course online for remote teaching?

Une seule réponse possible.

- ☐ Yes
- ☐ No
- ☐ Doesn't matter
- ☐ Autre : _____

31. What are the reasons for your previous choice?

32. If you have to provide a practical remote learning in robotics, what would you require?

33. What solutions would bring a remote learning process to your course?

34. What would be the limitations of the remote training course?

35. Your Comments

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