

(For JSPS Fellow)

Form B-5

Date (日付)

(Date/Month/Year: 日/月/年)

Activity Report -Science Dialogue Program-
(サイエンス・ダイアログ事業 実施報告書)

- Fellow's name (講師氏名): PHAM Quang Cuong (ID No. P11046)

- Participating school (学校名): Yamanashi Prefectural Kofu Higashi High School

- Date (実施日時): 27/07/2011 (Date/Month/Year: 日/月/年)

- Lecture title (講演題目): (in English) Motion planning in robotics: from research to applications

(in Japanese)

- Lecture summary (講演概要): Please summary your lecture 200-500 words.

In recent years, huge successes have been accomplished in the field of robotics, bringing, or about to bring, to the public technologies that only ten years ago few had believed to be possible one day. These achievements include for example self-driving cars (cars that can drive autonomously through dense urban traffic) or robotic surgery (robotic tools that allow the surgeon for example to operate inside their patients without cutting their skin). These achievements have been made possible in part by theoretical progresses in motion planning.

In this talk I will present some recent impressive applications of robotics. Then, I will explain about my research in motion planning. Finally, I will show how the two ends - research and applications - are related.

Also, I will be happy to share with you my itinerary as a student and then as a researcher through different countries such as Vietnam, France, the USA, Brazil and finally Japan.

- Language used (使用言語): English

- Lecture format (講演形式):

Lecture time (講演時間) 70 min (分), Q&A time (質疑応答時間) 20 min (分)

Lecture style (ex.: used projector, conducted experiments)

(講演方法 (例: プロジェクター使用による講演、実験・実習の有無など))

I used a projector. I showed slides, videos and conducted a computer experiment with one student

Interpretation (ex.: assistance by accompanied person, provided Japanese explanation by yourself) (通訳 (例: 同行者によるサポート、講師本人による日本語説明))

A student from my lab accompanied me and did the translation

Name and title of accompanied person (同行者 職・氏名)

Mr Otsuki Satoshi

Other note worthy information (その他特筆すべき事項):

- Impressions and opinions from accompanied person (同行者の方から、本事業に対する意見・感想等がありましたら、お願いいたします。):