

(For JSPS Fellow)

Form B-2
(FY2018)

Date (日付)

6/3/2019

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): PATHAK, Sarthak Mahesh (ID No. P18109)
- Participating school (学校名): Yamanashi Prefectural Hikawa High School
- Date (実施日時): 21/2/2019 (Date/Month/Year:日/月/年)
- Lecture title (講演題目): 360 Degree Disaster Sensing (360 度災害センシング)
- Name and title of your accompanying person (講義補助者 職・氏名)
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- Lecture format (講演形式):
 - ◆Lecture time (講演時間) 40 min (分), Q&A time (質疑応答時間) 35 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))
Powerpoint presentation, via projector
- Lecture summary (講演概要): Please summary your lecture 200-500 words.
For effective disaster response, it is necessary to understand and survey the situation. However, it is usually unsafe for humans to access these locations. Hence, robots equipped with cameras are typically used to visualize the location and perform three-dimensional measurement in order to plan the correct response. However, regular cameras have a small field of view, making these tasks difficult. My research solves these problems by making use of a special kind of camera - a 360 degree camera (全天球カメラ). This camera makes it possible to view and measure disaster environments in all directions in one shot. My research performs visualization, 3D measurement, and stabilization of 360 videos.
- Overall advice or comments to future participants in the program (今後の講師へのアドバイス):
Japanese high school students are always extremely interested in this program. I have heard the same from many of my friends. However, it is important to explain your research in an easy-to-understand and exciting manner. It is not easy to explain research so easily and still make it interesting, but it is worth it. Overall, it was a very satisfying experience for me.

Must be typed

- Other noteworthy information (その他特筆すべき事項):

The school was very polite. They picked me up from and dropped me back at the station, as well.

- Impressions and comments from the accompanying person (講義補助者の方から、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。)

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