※弊会記入欄

(学校用)

様式 A-1 (FY2023)

2023年 11月 20日

サイエンス・ダイアログ 実施報告書

1.	学校名・実施責任者氏名: お茶の水女子大学附属高等学校 金子麻子
2.	講師氏名: Dr. Leslie Woehler
3.	講義補助者氏名: 熊谷はるか
4.	実施日時: 2023 年 11 月 15 日 (水) 15:15 ~ 16:45
5.	参加生徒: _1_年生 _11_人、 _2_年生 _2_人、 備考:(例:理数科の生徒) 希望者のみ
6.	講義題目: Investigating the Perceived Authenticity and Communicative Abilities of Face-Swapped Portrait Videos
7.	講義概要: Woehler 博士の研究者としてのキャリアパス、コンピューターサイエンスの分野における女性研究者の地位などを紹介後、ディープラーニングの技術を活用して生成された精巧な「顔面入れ替え動画」を、人間がどのくらい見破ることができるかを実験に基づき検証
	講義形式: ☑対面 • □オンライン (どちらか選択ください。)) 講義時間 <u>60 分</u> 質疑応答時間 <u>30 分</u>
2)) 講義方法(例:プロジェクター使用による講義、実験・実習の有無など)
3)) 事前学習 有 (どちらかに〇をしてください。) 使用教材 <u>事前にお送りいただいた当日の PPT</u>
9.	その他特筆すべき事項:

Form B-2 (FY2023) Must be typed Date (日付) 22/11/2023 (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): <u>Leslie Woehler</u>	(ID No. PE23012)
- Name and title of the accompanying person (講義補助者	の職・氏名)
Haruka Kumagai (熊谷はるか)	
- Participating school(学校名): <u>Ochanomizu University</u>	Senior High School
- Date (実施日時):15/11/2 <u>023</u>	(Date/Month/Year:日/月/年)
- Lecture title (講義題目):	
Investigating the Perceived Authenticity and Communication	tive Abilities of Face-Swapped Portrait
<u>Videos</u>	
- Lecture format (講義形式):	
◆⊠Onsite ・ □Online (Please choose one.)(対面 ・ フ	ナンライン)((どちらか選択ください。))
◆Lecture time(講義時間) <u>50 min(分)</u> , Q&A time(質疑応答時間) <u>25 min(分)</u>
◆Lecture style(ex.: used projector, conducted experime	ents)
(講義方法 (例:プロジェクタ―使用による講義、実験・実習 <i>0</i>	0有無など))
Presentation using a projector	

- Lecture summary (講義概要): Please summarize your lecture within 200-500 words.

I presented a summarization of the results of my PhD thesis, highlighting the scientific process and important points when planning and conducting research. Furthermore, I talked about computer science in general to provide insights into the discipline. As the school is an all-girls high school, I also gave my impression on being a female student and researcher in computer science.

The talk started with an introduction of myself, my hometown, and the German school and University system. Afterwards, I briefly discussed different areas of computer science and explained why I chose the fields of computer vision, computer graphics, and human-computer-interaction. I also showed recent results of a master student at my current lab to illustrate what student projects in this field could look like. The introduction concluded with a look at female computer scientists and my individual experiences in this field.

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In the main section of the talk, I first showed examples of face-swapped videos and explained different use-cases for the technique as well as challenges regarding the abuse of the technique. I also explained how face-swapped videos are created and briefly introduced the main concepts of deep learning. Afterwards, I summarized the dataset generation and three experiments from my PhD thesis. During this, I tried to emphasize my considerations when planning and conducting my research instead of talking about specific details. The experiments I introduced during the lecture investigate the perceived authenticity of face swaps using online questionnaires as well as eye tracking. Furthermore, I included one experiment that looks at the communicative abilities of face swaps by analyzing the way participants perceive their conveyed emotions.

The lecture ended with a conclusion and a Q&A session.

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

It was a very good opportunity for high school students to be exposed to the field of computer science. It would be good to continue to actively create lectures on various fields.

