

■募集情報

募集番号	2022-2
部署名	ユニバーサルコミュニケーション研究所 先進的音声翻訳研究開発推進センター
インターンシップ課題名	Cross-modal Natural Language Generation
インターンシップ内容の概要	<p>Vast majority of researchers focus on either text based natural language processing, speech recognition or computer vision. Focusing on a single modality (text, audio or vision) is simpler but human beings often deal with multiple modalities at the same time. Without designing artificial intelligence that can cross modalities like humans can, they will always lag behind humans in performance. One such interesting cross-modal problem is Image Captioning where given an input image, the output is natural text that describes the image. A harder version of this is Video Captioning where a video is described by natural language text. Thanks to the ever increasing amount of image captioning data, the performance of captioning models has reached a substantial level, however there is a scarcity of such data for all languages. This necessitates focus on unpaired image captioning, where Image captioning data is available for one language, translation data is available between that language and another and the objective is to develop a captioning model that can directly generate captions in a language for which captioning data is not available. Developing such a system requires the combination of multilingual machine translation and image captioning. Simply utilising existing approaches will be insufficient as the knowledge in the translation data may be disconnected from the knowledge in the image captioning data. Therefore, an important challenge will be the enforcement of consistency between languages and images that represent the same concepts. The outcome of this project will be an image captioning system that can generate captions in any language.</p>
課題に関する問い合わせ先	<p>先進的翻訳技術研究室 研究統括 田中英輝 hideki.tanaka@nict.go.jp</p>

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応募条件	<ul style="list-style-type: none"><li>・ 学年：大学院以上</li><li>・ 専攻学科等：計算機科学</li><li>・ その他：自然言語処理、機械翻訳に関する知見がある方を優先的に採択する。</li></ul>
実施場所	ユニバーサルコミュニケーション研究所（けいはんな）
実施期間	2022年4月1日～2023年3月31日の間で60日間
受入予定人数	1名
選考課題	なし
備考	