

# **CURRICULUM VITAE**

## **PERSONAL INFORMATION**

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|-------------|--|---|
| Name        | Kak Soky   |  |
| Sex         | Male   |   |
| Nationality | Cambodian  |   |
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| Skype       | sokyspn  |   |

## **RESEARCH INTEREST**

- Automatic Speech Recognition (ASR)
- Multi-lingual ASR system
- Speech to Speech Translation

## **RESEARCH EXPERIENCES**

|                      |  |
|----------------------|--|
| June 2016-May 2017   | <ul style="list-style-type: none"><li>- Grapheme to Phoneme of Khmer language</li><li>- Khmer Automatic Speech Recognition</li></ul>   |
| June 2017-March 2018 | <ul style="list-style-type: none"><li>- OCR post-processing of Khmer language</li></ul>  |
| April 2018-June 2019 | <ul style="list-style-type: none"><li>- Multi-lingual Automatic Speech Recognition for low-resource language</li></ul>   |
| October 2019-Present | <ul style="list-style-type: none"><li>- Building parallel spoken translation corpora of Khmer, English and French.</li><li>- Multilingual ASR</li><li>- Speech Translation</li></ul> |

## **TECHNOLOGIES/TOOLS**

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|--------------|---|
| ASR toolkits | <ul style="list-style-type: none"><li>- Kaldi</li><li>- Julius</li><li>- ESPnet</li><li>- Pytorch</li></ul>           |
| Language     | <ul style="list-style-type: none"><li>- Python</li><li>- Bash</li><li>- Perl</li><li>- Java</li><li>- C/C++</li></ul> |

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| <b>PUBLICATIONS</b>   |  |
|---|--|
| <u>Kak, S.</u> , Sheng, Li., Tatsuya, K., Sopheap, S. (2019, November). Multi-lingual transformer training for Khmer automatic speech recognition. In Proc. APSIPA ASC, 2019.                         |  |
| Saly, K., <u>Soky, K.</u> , Jinfu, N., Yoshinori, S., Kato, H., & Kawai, H. (2018, December). Hidden Markov Model based Speech Synthesis system for Khmer Language. In Proc. ONA2018.                 |  |
| <u>Kak, S.</u> , Chea, V., Sam S. (2017, December). Khmer Automatic Speech Recognition based on DNN models. In Proc. ONA2017.   |  |
| Hour, K., <u>Soky, K.</u> , Vichet, C., Sethserey, S. (2017, December). OCR post-processing for Khmer language: Error detection using Conditional Random Field. In Proc. ONA2017.                     |  |
| <u>Soky, K.</u> , Lu, X., Shen, P., Kato, H., Kawai, H., Vanna, C., & Chea, V. (2016, December). Building WFST based Grapheme to Phoneme Conversion for Khmer. 3rd Khmer Natural Language Processing. |  |

| <b>REFERENCES</b>      |   |
|------------------------|---|
| Prof. Tatsuya Kawahara | Professor and Dean of the School of Informatics, Kyoto University, Japan.<br>E-mail: kawahara@i.kyoto-u.ac.jp   |
| Dr. Hiroaki Kato       | Senior Researcher at Advanced Speech Technology Laboratory of National Institute of Information and Communications Technology (NICT), Japan.<br>E-mail: kato.hiroaki@nict.go.jp |
| Dr. Sopheap Seng       | President of National Institute of Posts, Telecoms and ICT (NIPTICT), Cambodia.<br>E-mail: sopheap.seng@gmail.com   |