University of Southampton

PhD Studentship: Deepfake Detection with Continual Learning

University of Southampton - School of Electronics and Computer Science (ECS)

Qualification Type:	PhD	**Placed On:**	24th October 2023
Location:	Southampton	**Closes:**	24th January 2024
Funding for:	UK Students		
Funding amount:	For UK students, Tuition Fees and a stipend of £18,622 tax-free per annum for up to 3.5 years		
Hours:	Full Time		

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Supervisory Team:

Asst. Prof. Dr. Zhiwu Huang, Dr. Prof. Jonathon Hare, and Dr. Asst. Prof. Xiaohao Cai

<u>**Project description**</u>

As AI-generated deepfakes pose significant threats to truth and authenticity, this PhD project stands at the forefront of technological innovation and ethical responsibility. Focusing specifically on detecting deepfakes crafted using advanced methods like DALL-E3, this project's objective is to address the pressing need to safeguard digital integrity. By concentrating on evolving generative models and language-driven techniques, this project aims to develop advanced continual learning algorithms that not only unravel the complexities of evolving language-driven deepfakes but also prevent the negative effects of memory loss in the learning process. The approaches will go beyond conventional methods with inspiration from the remarkable language understanding abilities of ChatGPT to integrate innovative language-driven detection techniques. This project is expected to serve as a beacon, pioneering the way forward in the realm of deepfake detection. By bridging the gap between evolving generative models and language-driven techniques, it aims to set new standards in the field, ensuring not just technological advancement but also the responsible and ethical use of AI-driven technologies in society.

The Vision, Learning, and Control (VLC) group at the School of Electronics and Computer Science (ECS), University of Southampton, is opening two PhD positions. We cordially invite individuals who are passionate to the realms of computer vision and machine learning to apply for these positions. The successful candidates will be engaged into the cutting-edge research within the supportive and collaborative environment of the VLC group.

If you wish to discuss any details of the project informally, please contact Asst. Prof. Dr. Zhiwu Huang, VLC Research Group, Email: Zhiwu.Huang@soton.ac.uk .

Entry Requirements

A very good undergraduate degree (at least a UK 2:1 honours degree, or its international equivalent).

<u>**Closing date**</u>:

Applications should be received no later than 31 August 2024 for standard admissions, but later applications may be considered depending on the funds remaining in place.

Funding:

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How To Apply

Apply online: Search for a Postgraduate Programme of Study (soton.ac.uk). Select programme type (Research), 2024/25, Faculty of Physical Sciences and Engineering, next page select "PhD Computer Science (Full time)". In Section 2 of the application form you should insert the name of the supervisor Zhiwu Huang

Applications should include:

- Research Proposal
- Curriculum Vitae
- Two reference letters
- Degree Transcripts/Certificates to date

For further information please contact: feps-pgr-apply@soton.ac.uk

The School of Electronics & Computer Science is committed to promoting equality, diversity inclusivity as demonstrated by our Athena SWAN award. We welcome all applicants regardless of their gender, ethnicity, disability, sexual orientation or age, and will give full consideration to applicants seeking flexible working patterns and those who have taken a career break. The University has a generous maternity policy, onsite childcare facilities, and offers a range of benefits to help ensure employees' well-being and work-life balance. The University of Southampton is committed to sustainability and has been awarded the Platinum EcoAward.

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