

Four papers have been published for the project, among which two were published in conferences (ECCV2022 and UbiCom2022) and the other two were published on a journal (IEEE Signal Processing Letters). One abstract was published on WORK2021 conference.

Besides, two more papers have been submitted recently and are currently under review. One was submitted to WACV2024 conference, and the other was submitted to a top journal of IEEE TPAMI. Please see the full list of publications below.

[1] Zhaodong Sun, **Xiaobai Li***, Virpi-Liisa Kykry, Mikko Pohjola, Miriam Nokia, Tomi Waselius and Risto Puutio (2021) Remote Physiological signal measurement for increasing the gain and reducing the strain in remote work group meetings. *WORK2021* conference.

[2] Yu, Zitong, **Xiaobai Li**, Pichao Wang, and Guoying Zhao* (2021). "Transrppg: Remote photoplethysmography transformer for 3d mask face presentation attack detection." *IEEE Signal Processing Letters* (2021). ([Jufo 2](#))

[3] Zhaodong Sun, **Xiaobai Li*** (2022) "Contrast-Phys: Unsupervised Video-based Remote Physiological Measurement via Spatiotemporal Contrast". In *European Conference on Computer Vision (ECCV 2022)*. Tel Aviv. (pp. 492-510) ([Jufo 2](#))

[4] Z. Sun, A. Vedernikov, V. Kykry, M. Pohjola, M. Nokia, and **X. Li*** (2022) "Estimating Stress in Online Meetings by Remote Physiological Signal and Behavioral Features". In *Proceedings of the 2022 ACM International Joint Conference on Pervasive and Ubiquitous Computing*. ([Jufo 1](#))

[5] Zhaodong Sun, **Xiaobai Li*** (2022), Privacy-Phys: Facial Video-based Physiological Modification for Privacy Protection. *IEEE Signal Processing Letters*. vol. 29, pp. 1507-1511, 2022 ([Jufo 2](#))

[6] Zhaodong Sun, **Xiaobai Li***, Contrast-Phys+: Unsupervised and Weakly-supervised Video-based Remote Physiological Measurement via Spatiotemporal Contrast. Submitted to *IEEE Transactions on Pattern Recognition and Machine Intelligence*. ([Jufo 3](#)) (under review)

[7] A. Vedernikov, Z. Sun, Kykry, M. Pohjola, M. Nokia, and X. Li* Analyzing Participants' Engagement during Online Meetings Using Unsupervised Remote Photoplethysmography with Behavioral Features. Submitted to *IEEE/CVF Winter Conference on Applications of Computer Vision (WACV) 2024*. ([Jufo 1](#)) (under review)