**Appendix 2.2**

**Report of International Conference Presentation**

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| Name:  (Presenter) | Muhammad Wafiq Haji Abd Zariful |
| Affiliation: | Universiti Teknologi Brunei |
| Project Title: | AI-Based Real Time Analysis and Control of The Monitoring on the Growth of Freshwater Prawn Using Video Image Processing from Underwater Drone |
| Name of International Conference:  (Link to website) | 2024 5th Asia-Pacific Conference on Image Processing, Electronics and Computers (IPEC2024) http://www.acipec.org/ |
| Title of Research Paper: | Comparison of Biocode based Machine learning and Segmentation model for Automated Prawn Size Prediction for real prawn farm |
| Name of all Co-authors (if any) | Muhammad Wafiq Abd Zariful, Najeebah Az-Zahra Tashim, Tiong Hoo Lim, Aida Maryam Basri, Hanif Fakhrurroja, Suriayati Chuprat, Seno Adi Putra, Pengcheng Liu |
| Comments or feedback received at the conference:  No feedback as the presentation was good. | |
| Contribution to the project:  We presented the AI based prawn biomass detection from the IVO project.  Keynote speaker on Next Generation IoT is very relevant to our project and also the presentation. The speaker highlighted the challenges of NG-IoT due to its interdisciplinary nature. It will be more human-centric and more than human and decentralized. The transparency, inclusive and privacy of the IoT will need to be taken into consideration as a future research area.  Another related talk is on context active resilience in CPS where a next generation cyber physical system for context active resilience that maintains state awareness and an acceptable level of operational in response to disturbance or failure. They proposed a deraining approached for image restoration to remove the disturbance in the image which can be applied to our underwater images  There are plenty of AI papers presented during the conference. | |
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**[Required Documents]**

1. Presentation Materials (e.g. PPT slides)
2. Final Program of the conference

**Reporter:** Muhammad Wafiq Haji Abd Zariful

**Date: 14/04/2024**