

Ritsumeikan Asia Pacific University
Graduate School of Asia Pacific Studies

Record of Doctoral Dissertation Screening

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Degree Type	Doctor of Philosophy in Asia Pacific Studies
Degree No.	Dr. A No. 111
Date of Award	March 31, 2023
Requirements for Degree Conferral	Persons who comply to the Ritsumeikan Asia Pacific University Degree Regulations Article 13 Section 1
	Degree Regulations Article 4 Section 1
Title of Dissertation	Emotional artificial intelligence and its social and ethical implications in Japan: A mixed method study
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This dissertation analyzes cross cultural issues and citizen perspectives of an emerging field of affective computing known as Emotional AI. The structure and content of this project is innovative, inclusive and comprehensive. It unfolds in a logic and understandable manner, communicating to the reader each of the various sectors in which emotional AI is developing in Japan as well as on a global level. The contents of the dissertation are successful at blending qualitative and quantitative insights drawn from the research period. Moreover, the inclusion of numerous tables, chats, and graphs help to visualize the data and give the reader a far better picture of the candidates insights.

As evidenced below, the candidate’s research and analysis follows a logic, comprehensive and clear trajectory.

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<p>Summary of Dissertation Screening Results</p>	<p>The dissertation distinguishes itself as a novel and innovative contribution to existing literature in the AI field in several ways. First the research of emotional artificial intelligence (EAI) employs a mixed methods approach combining qualitative as well as quantitative research.</p> <p>In terms of its qualitative work, the candidate drew extensively from data collection derived from his role as a my research assistant on a grant entitled, <i>Emotional AI:Cross-Cultural Lessons on how to live ethically and well with Emotional AI technologies in Smart City Design</i>. During this period, the candidate relied on data collection from mapping the ecology of emotional AI stakeholders in Japan, desktop analysis, Bayesian Analysis, Sentiment Analysis, numerous interviews with various EAI stakeholders in Japan, design workshops held with various segments of the population as well as local and national surveys.</p> <p>The dissertation deserves recognition as it provides novel insights into the impact of AI on society, specifically, the nascent field of affective computing. The fact that the candidate has already published much of his findings in some of the leading Q1 internationally recognized peer reviewed is proof of his level of achievement as evidenced in this dissertation.</p> <p>Importantly, the candidate’s research is of vital importance to academic research but also society at large since AI technologies are dramatically and rapidly reshaping how we work and live.</p> <p>In order to verify the claims made in this dissertation, a viva voce was held on Jan. 16th, 2023 at Ritsumeikan Asia Pacific University. A unanimous decision was reached by the examiners in which they decided the candidate was deserving of being awarded the degree of Doctorate of Philosophy as well as being nominated for a special award for his outstanding work.</p>

**Summary of
Examination
Results or
confirmation of
Academic Skills**

MANH HO, Tung complies with the Ritsumeikan Asia Pacific University Degree Regulations Article 13 Section 1. The candidate has co-authored numerous publications and book reviews in leading international journals. Some of those articles include:

Ho MT, Ngoc-Thang, B., Mantello, P, M-Toan Ho, Ghotbi, N.
(2022) **Understanding the acceptance of emotional artificial intelligence in Japan healthcare system: A survey of clinic visitors' attitude**, Technology in Society, Elsevier.

Ho, MT. What is a Turing test for emotional AI?. *AI & Society* (2022).

Mantello, P, and Ho, MT (2022) **Why We Need to Be Weary of Emotional AI**, *AI and Society* (Springer Nature). **In Press.**

Bakir, V., Ghotbi, N., Ho, MT., Laffer, A., Mantello, P., McStay, A., Miranda, D., Miyashita, H., Podoletz, L., Urquhart, L. (2022), **Emotional AI in the Cities: Cross-cultural Lessons from the UK and Japan on Designing for Ethical Life** in Carta, S., *Machine Learning and the City: Applications in Architecture and Urban Design* (pages 621-629).

Ho MT, Mantello, P., Nguyen, MH, Nguyen HK, Vuong, QH (2022) **'Mapping Gen Z opinions of non-conscious data collection: Rethinking Technological Acceptance in the age of Emotional AI**, *Technology in Society*, Elsevier, Vol 70.

Mantello, P, Ho MT, Podoletz, L (2022) **'Automating Extremism: Mapping The Affective Role of Artificially Intelligent Agents in Online Radicalisation'** in Pashentsev *Malicious Use of Artificial Intelligence*, Palgrave McMillan.

Mantello, P., Ho MT, Nguyen MH, Vuong QH. (2021) **Bosses without a heart: Socio-demographic and cross-cultural determinants of attitude toward emotional AI in the workplace.** *AI & Society*, 36 (Springer Nature)

Ho, M.T., Mantello, P. Nguyen, M., and Vuong Q.H. (2021) **Affective computing scholarship and the rise of China: A view from the 25 years of bibliometric data**, *Humanities and Social Sciences Communications*, Nature, Series Palgrave.

Ghotbi, N., Manh Ho, T., Mantello, P. (2021) **Attitudes of college students toward ethical issues of artificial intelligence in an international university in Japan.** 'AI and Society'. Springer Nature.