

題目                    A psychophysical study of subjective probabilities of delayed monetary gain and loss

氏名                    木村 亮

指導教員              高橋泰城 准教授

After evolutionary theorist Peter D. Sozou published a study on hyperbolicity of time-discounting of future outcome in 1998, many advances have been made in the field of intertemporal choice and delay discounting. In 2005, the Time Perception theory has been proposed by Taiki Takahashi. However to date it is still remained uncertain as to whether which theories could better explain the hyperbolicity of time-decay of future outcome. In this study, we examined the hyperbolic decay of subjective probability of obtaining delayed outcome, and moreover other conditions which the types of outcome and that of time are altered. Each analysis and examination investigated the predictions logically derived from the theories. There were eight logical predictions in total. Two of which were derived from Sozou's theory, four of which were derived from Takahashi's theory, and the rest two predictions were deduced from both theories. Our results indicate that Takahashi's Time Perception better explains the hyperbolic time-decay of subjective probability for delayed outcome than Sozou's theory. It is worth noting that anomalies observed which could not have been predicted from Sozou's theory were explained by Takahashi's Time Perception theory. Implication for future development and applications are discussed.