

인공지능학과

Distinguished Lecture Series



일시: 2023년 10월 18일(수) 오후 2시 ~ 3시

장소: 우정정보관 202호

연사: Alexander Babuta 박사 (Alan Turing Institute)

제목: Artificial Intelligence, Crime Prevention and Intelligence Analysis

초록: Artificial intelligence (AI) presents significant opportunities to understand and respond to crime and security threats, at a scale and speed far greater than human decision-making allows. However, this technology also brings new risks and challenges, which must be managed carefully before deploying AI systems for policing or security purposes. This seminar will focus on three specific aspects of AI use for policing and security purposes: predictive crime mapping; behavioural analytics; and human-machine teaming. Predictive crime mapping is the use of AI models to analyse crime data and forecast locations where crime is likely to happen in the future. The same AI models that predict earthquake aftershocks can make powerful predictions about the location of future crime, and have been shown to be 10 times more accurate than human analysis. Behavioural analytics is the use of AI models to analyse data related to individuals, to make inferences about their future behaviour (for instance, their likelihood of future offending). The same AI models that predict whether an individual is likely to buy a particular product on an online shopping website can also be used to predict their likelihood of committing violent crime. For AI systems to be effective in a policing or security context they must be integrated into the complex decision-making process of a human officer or analyst. This seminar will also explore the topic of 'human-machine teaming in intelligence analysis', based on the Alan Turing Institute's in-depth research examining the use of AI within the UK national security community. This study engaged directly with intelligence analysts to understand how AI systems can be effectively integrated into existing decision-making processes. The study examined where machine learning could bring most benefit in the intelligence analysis workflow, and how the technical attributes and behaviour of AI systems should be explained to different users to provide sufficient trust and confidence in the system. The seminar will be of interest to anyone wishing to learn more about the potential uses of AI for security and policing, and recent developments in UK-based research on these topics.

주최: 고려대학교 인공지능학과, 인공지능연구원, 인공지능혁신허브센터