**Participant Information Sheet**

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| **Study Title**  The Drones Game  **Invitation to Take Part**  You are being invited to participate in an experiment conducted for the module ‘Evaluation Methods and Statistics’ (Computer Science, 2019). Before you decide to participate, it is important for you to understand why the research is being and what it will involve. Please take time to read this Participant Information Sheet carefully and discuss it with others if you wish. Ask us if anything is not clear or if you would like more information. Take time to decide whether you or not you wish to take part in the study.  **What is the Purpose of the Research?**  Future systems could have humans making decisions about some aspects of an activity and machines (i.e., computers) making decisions about other aspects. In order to cooperate effectively, the human and machine will need to share information. For this experiment, we are interested in ways in which awareness (of what is happening and what the consequences of actions might be). The experiment is designed to evaluate different types of visual display that can support awareness and to see how this might change as the situation becomes more complicated.  **Who is Doing This Research?**  Professor Chris Baber will conduct the research at The University of Birmingham  .  **Why Have I Been Invited to Take Part?**  You have been approached because you are registered for the Evaluation Methods and Statistics module. The selection requirements are that you older than 18 and younger than 45, your eyesight is adequate to read the text and you do not have problems in distinguishing colour on computer visualisations. You will also need to successfully complete a practice test before the main experiments.  **Do I Have to Take Part?**  Participant is entirely voluntary and you are free not to participate without giving a reason. If you choose not to participate, then you do not need to send the files to the Canvas assignment.    **What Will I Be Asked to Do?**  The study will require you to use of a video-game (the ‘Drones Game’) to monitor Unmanned Aerial Vehicles that are flying over an American town. In some of the houses in this town, there are celebrities who have hired your company to ensure that their privacy is protected. Paparazzi working for tabloid newspapers and gossip magazines are using Unmanned Aerial Surveillance Vehicles (UASVs) to fly over the celebrity houses to take photographs. Your company has installed ‘beacons’ which can be activated to disable these UASVs. However, there are also Unmanned Aerial Delivery Vehicles that are flying innocently around the town and you do not want to disable these, nor do you want to cause damage to the communications in the town, or to the houses of the celebrities. So, you will need to activate the beacons with care. Also, when a beacon is activated it uses power and needs to regenerate power before you can use it again. In some of the trials, Decision Support will be available to help decide when to activate the beacons. You will complete the task for 3 runs (each run lasts around 10 minutes) under three conditions of decision support. The experiment will use Signal Detection Theory to compare measures of correct response (‘hits’) with incorrect responses (‘false alarms’).  **What is the Device or Procedure That is Being Tested?**  The study is testing the use of computer visualisations to support awareness and how this affects decision making.  **What are the Benefits of Taking Part?**  Results from the study will be used for the statistics classes. Participation also contributes to discussion of experimental design in the lectures.  **What are the Possible Disadvantages and Risks of Taking Part?**  We do not foresee any risks in participating in this study.  **Can I Withdraw from the Research and What Will Happen If I Withdraw?**  You can withdraw at any time. If you choose to withdraw, any data collected from you will be destroyed and not used for further analysis. If the data are used for research, you will be given further opportunity to consent to the use of your data for this purpose.  **Are There Any Expenses and Payments Which I Will Get?**  None.  **Will My Taking Part or Not Taking Part Affect My University Career?**  No.  **Whom Do I Contact If I Have Any Questions?**  In the immediate instance, Professor Chris Baber will address questions.  **Whom Do I Contact If I Have a Complaint?**  If you have concerns during the course of the study, you can raise these with Professor Chris Baber. If you have concerns but would prefer to speak with someone independent of the study, you can contact Professor Beale, Ethics Officer, School of Computer Science: email: r.beale@cs.bham.ac.uk.  **What Happens If I Suffer Any Harm?**  It is not anticipated that the study will expose you to anything that might cause harm.  **Will My Records Be Kept Confidential?**  In compliance with the UK Data Protection Act (2018), your data will be treated as confidential and you will be assigned a unique identifying code which will be used to identify your data. Data to be collected will be as follows: the ratio of UAVs that are disabled, the amount of time that a celebrity house is protected, your rating of workload and situation awareness. Some of these data will be shared with people on the Evaluation Methods and Statistics course for the purposes of statistical analysis. The data will be stored electronically on secure university of Birmingham servers and paper copies will be destroyed. The data will be kept until for up to 5 years by Chris Baber, if a publication of any sort results from the project.  **Who is Organising and Funding the Research?**  The Drones Game was developed for work funded by UK Ministry of Defence and French DGA through the MCM-ITP  **Who Has Reviewed the Study?**  The study has also been approved by the University of Birmingham Ethics Committee  **Further Information and Contact Details**  Name : Chris Baber  Address : School of Computer Science, University of Birmingham  Tel No : 0121 414 3965  E-mail : c.baber@cs.bham.ac.uk  **Compliance with the Declaration of Helsinki**  This study complies, and at all times will comply, with the Declaration of Helsinki [[1]](#footnote-1) as adopted at the 64th WMA General Assembly at Fortaleza, Brazil in October 2013. |

# Consent Form For Participants in Research Studies

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| Title of Study : Novel Human-Machine Teaming  Please Initial or  Tick Boxes   * **The nature, aims and risks of the research have been explained to me. I have read and understood the Information for Participants and understand what is expected of me. All my questions have been answered fully to my satisfaction.**  * **I understand that if I decide at any time during the research that I no longer wish to participate in this project, I can notify the researchers involved and be withdrawn from it immediately without having to give a reason. I also understand that I may be withdrawn from it at any time, and that in neither case will this be held against me in subsequent dealings with the University of Birmingham.**  * **I consent to the processing of my personal information for the purposes of this research study. I understand that such information will be treated as strictly confidential and handled in accordance with the provisions of the Data Protection Act 2018.**      * **I agree to volunteer as a participant for the study described in the information sheet and give full consent.**      * **This consent is specific to the particular study described in the Information for Participants attached and shall not be taken to imply my consent to participate in any subsequent study or deviation from that detailed here.**     Participant’s Statement :  I **……………………………………………………**  agree that the research project named above has been explained to me to my satisfaction and I agree to take part in the study. I have read both the notes written above and the Information for Participants about the project, and understand what the research study involves. Signed : Date : Investigator’s Statement :  I **……………………………………………………**  confirm that I have carefully explained the nature, demands and any foreseeable risks (where applicable) of the proposed research to the Participant.  **Name and Contact Details of Investigator :**  Professor Chris Baber, School of Computer Science, University of Birmingham.  c.baber@cs.bham.ac.uk |

1. World Medical Association Declaration of Helsinki [revised October 2013]. Recommendations Guiding Medical Doctors in Biomedical Research Involving Human Subjects. 64th WMA General Assembly, Fortaleza (Brazil). [↑](#footnote-ref-1)