UNIVERSITY OF ST ANDREWS TEACHING AND RESEARCH ETHICS COMMITTEE (UTREC) ETHICAL APPLICATION FORM

Please Tick: (click on the box then click 'Checked' for a cross to appear in the box)				
Undergraduate 🛭	Postgraduate Research P	ostgraduate Taught		
Lecturer/Course	Controller on behalf of Taught module	Module Code: CS5199		
Researchers Name(s):	Sizhe Yuen			
Project Title:	Player Prediction in DOTA			
School/Unit: (Please indicate)	Computer Science	Supervisor: John Thomson		
Emails	sy35@st-andrews.ac.uk	Date Submitted 1 October 2018		

Project Description: Please give a concise description without technical terminology of **what** you are proposing to do; **Who** your participants are (eg. age, vulnerability, nationality, organisation); **Where** the research will take place (eg. site, country); **How** you are doing it, (eg. survey, interview). (90 words for database reasons) This summary will be reviewed by UTREC and may be published as part of its reporting procedures.

This project aims to detect players in Dota 2 using accounts for illegitimate reasons such as account selling, by analysing replays of players and running the data through a machine learning model to find changes in behaviour. Publicly available data from Dota 2 players will be collected from the internet and processed. The research will be done in St Andrews and no interaction between the researcher and the players will take place.

Ethical Considerations: You should give an overview of the important ethical issues raised by your research including **how** you will obtain voluntary informed consent (especially where you are gathering audio/video data); **What** type of data you will be collecting (anonymous, coded, attributable); **How** you will handle, store and retain/ destroy data. (90 words for database reasons) You should elaborate on these issues in Q28.

This summary will be reviewed by UTREC and may be published as part of its reporting procedures.

The replay data will be obtained from the official API of Valve Software. This replay data is publicly available as part of the game. The data contains identifiable account handles of the players on an opt-in basis. The account handles will be discarded as they are not needed. Account ids will only be used to collect data from the API and will be anonymised during the processing, analysis and storage of the data.

APPLICATIONS MUST BE SUBMITTED TO THE RELEVANT SCHOOL ETHICS COMMITTEE https://www.st-andrews.ac.uk/utrec/sec/secmembers/ PLEASE DO NOT SUBMIT DIRECTLY TO UTREC.

- Please submit an electronic copy and one hard copy (with signatures) to the Secretary/Administrator. In the absence of a Secretary please submit to the SEC Convener.
- Applicants must be accompanied by the relevant supporting documents without which a full ethical assessment cannot be made.
- Please do not type out with the text boxes provided, note that the Text Boxes are fixed in size and will not allow any viewing beyond the word limit permitted.

TREC Ethical Application Form (Human) If ethical approval has been obta	ined from the U	niversity of St Andrews	for rese	earch so	similar to	this
project that a new review proces date of its approval.						
Approval Code:						
Date Approved:						
Project Title:						
Researchers Name(s):						
RESEARCH INFORMATION						
1. Estimated Start Date:	Week 3 of semes	ster 1				
2. Estimated Duration of Project:	Semester 1					
3. Is this research funded by any ex	xternal sponsor o	or agency?		YES		D
If YES please give details:						
For projects funded by ESRC pl		of the Ethical and Legal		erations	found at	HTTP://
ESRC Funded Studentships (pos (in particular in relation to S						
Does this research entail collaboration and/or across other L				YES		D
If YES state names and institutions of collaborators:						
If the research is collaborative had that all collaborators, including a and Students, are given appropriate.	ll University Staff	, External Researchers,	N/A	∑ YES	5 <u> </u>	0 🗌
6. Where projects raise ethical con- intellectual property, publication funders, research with policy or of APPROPRIATE STEPS TO ADDRESS T	strategies/author other implications	ship, responsibilities to	N/A	X YES	5 <u> </u>	Ο 🗌
7. Location of Research Fieldwork to be conducted:	University of St A	andrews				
8. Are you using only library, intern (with appropriate licenses and perinvolvement such as interviewing	ermissions) and			YES [⊠ NO	
9. a. Who are the intended Particip (e.g. students aged 18-21) ar will your recruit them (e.g. ad	nd how					
 b. Estimated duration of Participelin Involvement. 	pant					

If you have answered YES to Q8 but the project has other Ethical Considerations please go to Q.28. If there are no other Ethical Considerations please sign and submit.

ETH	HICAL CHECKLIST				
10.	Have you obtained permission to access the site of research?	N/A	YES	NO	
	If YES please state agency/authority etc. & provide documentation. If NO please indicate why in Q.28				
11.	Will inducement i.e. other than expenses, be offered to participants? If YES, please give details of the inducement being offered and justify		YES	NO	
12.	Has ethical approval been sought and obtained from any external body e.g., REC(NHS)/LEA and or including other UK Universities? If YES, please attach a copy of the external application and approval.	N/A	YES	NO	
13.	Will you tell participants that their participation is voluntary?		YES	NO	
14.	Will you describe the main project/experimental procedures to participants in advance so that they can make an informed decision about whether or not to participate?		YES	NO	
15.	Will you tell participants that they may withdraw from the research at any time and for any reason, without having to give an explanation?		YES	NO	
16.	Please answer either a. or b. a. Will you obtain written consent from participants?		YES	NO	
	b. (ONLY: Social Anthropology, Geography/Geoscience, International Relations & Biology)				
	Will you obtain written consent from participants, in those cases where it is appropriate?		YES	NO	
17.	Please answer either a. or b. a. If the research is photographed or videoed or taped or observational, will you ask participants for their consent to being Photographed, videoed, taped or observed?	N/A	YES	NO	
	 b. (Social Anthropology & Biology ONLY) Will participants be free to reject the use of intrusive research Methods such as audio-visual recorders and photography? 	N/A	YES	NO	
18.	Please answer either a. or b. a. Will you tell participants that their data will be treated with full confidentiality and that if published, it will not be identifiable as theirs?				
	b. Will you tell participants their work /contribution will be credited unless they specifically request anonymity?		YES	NO	
19.	Will participants be clearly informed of how the data will be stored, who will have access to it. and when the data will be destroyed?		YES	NO	
20.	Will you give participants a brief explanation in writing of the study? i.e. a debrief		YES	NO	
21.	With questionnaires and/or interviews, will you give participants the option of omitting questions they do not want to answer?	N/A	YES	NO	

UTREC Ethical Application Form (Human)

If you have answered NO to any question 12-21, please give a brief explanation in the statement of Ethical Considerations on Page 1 and expand in Q28 if necessary.

If you have answered YES, it must be clearly illustrated in the relevant paperwork which must be attached i.e. Participants Information Sheet, Consent Form, Debriefing Form, Questionnaire, Letters etc......

JTREC Ethical Application Form (Human)	
WORKING WITH CHILDREN AND OR VULNERABLE PEOPLE Do participants fall into any of the following special groups?	
 22. a. Children (under the age of 16 in Scotland or 18 in England/Wales) b. Vulnerable Adult, receiving care or welfare services c. People with learning or communicative difficulties d. Residents/Carers in a specific location, e.g. Care Home 	YES NO
NOTE TO SCHOOL ETHICS COMMITTEE. If the researcher has answered YES to with all supporting documentation, must be forwarded to UTREC for review and Geography and Geoscience, Medicine and Psychology NOTES TO RESEARCHER. If you answer YES to Q.22 a.—d., you may be required to Vulnerable Groups [PVG] Disclosure approval. 'Working with Children and or Vulneral and procedures can be found on our webpage https://www.st-andrews.ac.uk/utrec/ethica For those planning to conduct research in England / Northern Ireland please obtain check. Disclosure and Barring Service (DBS), previously known as CRB. https://www.records-bureau-check/overview	o obtain Protection of ble People' guidelines alapplication/children/
e. NHS Patients or Staff f. Institutionalised persons	YES NO NO NO
If you answer YES to Q 22.,e. or f., it is likely you will be required to obtain approval from be sought prior to approval from the relevant SEC or UTREC.	the NHS. This <u>must</u>
g. People in custodyh. People engaged in illegal activities, e.g., drug-taking	YES NO NO NO
If YES to Q22. g. or h., you should ensure that the relevant Risk Assessment Checklist h https://www.st-andrews.ac.uk/utrec/guidelines/riskassessment/	as been completed.
If you have answered NO to Q22 a-d please skip Q23 and pr 23. Have you lived/worked outside the UK in the last 12 months?	oceed to Q24.
If you have lived outside the United Kingdom (UK) for a period of more than 6 means to the Q22 you will be required to provide a police check from that country to cover information and helpful links are available on our 'Working with Children and or Vulnera https://www.st-andrews.ac.uk/utrec/ethicalapplication/children/	er that period. Further

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ETHICAL RISK

This section is for ethical use only and <u>does not</u> replace the requirement to submit a Fieldwork Risk Assessment Form to the relevant Health and Safety/Risk Officer in your School. The University official procedures on Risk and Safety measures are linked from our webpage

HTTPS://WWW.ST-ANDREWS.AC.UK/UTREC/GUIDELINES/RISKASSESSMENT/

24.	Are any of the participants in a dependant relationship with the investigator e.g. lecturer/student? If YES, give explanation in Q.28.	YES	NO	
25.	Will your project involve deliberately misleading participants in any way? If YES, give details in Q.28 and state why it is necessary and explain how debriefing will occur	YES	NO	
26.	Is there any significant risk to any paid or unpaid participant(s), field assistant(s), helper(s) or student(s), involved in the project, experiencing either physical or psychological distress or discomfort? If Yes, give details in Q.28 and state what you will do if they should experience any problems e.g. who to contact for help.	YES	NO	
27.	Do you think the processes, including any results, of your research have the potential to cause any damage, harm or other problems for people in your study area? If YES, please explain in Q.28 and indicate how you will seek to obviate the effects.	YES	NO	

There is an obligation on the Lead Researcher & Supervisor to bring to the attention of the School Ethics Committee (SEC) any issues with ethical implications not clearly covered by the above

ETHICAL STATEMENT

28. Please provide a clear, concise statement of the ethical issues raised by this project and provide details of how you will address these issues, paying particular attention to those questions which have specifically asked for clarification in Q28. This section should also provide full details of what type of data you will be collecting (anonymous, coded, attributable) and how you will handle/store and retain/destroy data.

The replay data will be obtained from the official API Valve Software – the creators of the game – provide. This replay data is public and anyone can download a replay for a match with the corresponding match ID. Further, the API provides a list of all matches by a single player given their account id. A replay file of the game is created for every match that is played.

The data contains identifiable account handles and ids of the players on an opt-in basis. Players can choose to consent to third parties accessing their match history via an in-game option which is disabled by default. Players who do not consent appear as anonymous in the replay data. There is no link between the identifiable account names and real world names and ids. Due to the nature of having 10 different players in each game of Dota 2, it is not possible to obtain consent from the players directly.

The data gathered will only be presented in the project report and no personal data will be collected, stored or disseminated. We are not interested in account handle of players, and only interested in matching the behaviour of the player in order to detect illegitimate uses. The data will be anonymised by the removal of handle names and account ids will only be used in order to download the replays before being anonymised. Only the anonymised data will be stored and used for processing and analysis. The analysed data will be stored indefinitely.

	tion Form (Human)					
DOCUMENTATION	ON CHECKLIST					
ETHICAL APPLICAT	ON FORM		<u> </u>	YES 🔀	NO	
PARTICIPANT INFO	RMATION SHEET			YES	NO	
CONSENT FORM				YES	NO	\boxtimes
DEBRIEFING FORM				YES	NO	\boxtimes
EXTERNAL PERMIS	SIONS			YES	NO	\boxtimes
LETTERS TO PARE	ITS / CHILDREN / HEAD TEA	CHERS ETC		YES	NO	
PVG Approval (S	cotland) or Police Check	(England/Other)		YES	NO	\bowtie
ADVERTISEMENT				YES	NO	
Other (please list) :					
*BPS, *ESRC, *N	the UTREC Guidelines f IRC and *ASA (*please des, and have discussed t	delete the guidelines	not appropriate to you	ur discipline) Gu	idelines iideline	s/ and s for
STUDENTS ONI My Supervisor ha Print Name:	as seen and agreed all re	levant paperwork lin	ked to this project	YES 🔀	NO	
Signature						
Date:						
project and application research to the S) nust ensure they have re cation, before signing bel chool/Student. (Supervi Please, if you wish, add o	low, with clear regard sors should provide t	d for the balance betw this on a separate she	een risk and the	value	of the
Print Name:						
Print Name: Signature						
Signature Date:	CHER ONLY			YES	NO	
-	CHER ONLY			YES	NO	
Signature Date: STAFF RESEAF	CHER ONLY			YES	NO	
Signature Date: STAFF RESEAF Print Name:	CHER ONLY			YES	NO	

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STATEMENT OF ETHICAL AP	PROVAL
This project has been considere	ed using agreed University Procedures and has been:
☐ Approved	☐ Not Approved pending:
	☐ More Clarification Required
	□ New Submission Recommended
	☐ Discussed with Supervisor
	☐ Referred to UTREC
	☐ Referred to Fieldwork Subcommittee
Convenor's Name	
Signature	
Date:	

Please use the space below and additional pages to attach any supporting documents i.e. Participant Information Sheets, Consent Forms, Debriefing Forms, Questionnaires, Letter to Parents etc.

We recommend you refer to the sample documents provided at https://www.st-andrews.ac.uk/utrec/EthicalApplication/SampleDocuments/