

Ethical category of project [Complete after approval] Red **Amber** Green M

## STUDENT PROJECT: ETHICS REGISTRATION AND APPROVAL FORM

Section One: Registration

Researcher's name

Programme of study

Academic Year

Module code

participants:

Supervisor's name

Second Marker's name

Start Date of project

Proactive threat detection of cyber-physical Title of project

06 November 2016

Short description of project, including research methods and selection of any

participants will be required for this research project.

This project on the Internet of Things is looking at a novel way of predicting cyber threats on a specific use case of cyber-physical systems, by applying Bayesian estimation to compare the predicted behaviour of connected cars with real-time motion patterns for anomaly detection. Non-experimental research methods will be conducted with quantitative data analysis. No

2016/2017 LD0749

Dr Haider al-Khateeb

**Adam Reviczky** 

**MSc Cyber Security** 

Ahmed Bouridane

systems using Bayesian estimation: connected cars as a case study

Ethical considerations in the research project					
1.	Does your research involve an external organisation or partner e.g. NHS, School etc.				
2.	Does your research involve human participants?		$\boxtimes$		
3.	If yes to Q.2, will you inform the participants about the research?				
4.	Will you obtain their consent using the standard consent form?				
5.	Is any deception involved?				
6.	Do any participants constitute a 'vulnerable group' (see definition of Vulnerable People)				
7.	Will the research involve the following information?				
	Commercially sensitive		$\boxtimes$		
	Personally sensitive				
	Politically sensitive				
8.	Is the research likely to cause any significant environmental impacts?				
9.	Are there likely to be any risks for you or for the participants in your research?		$\boxtimes$		
10.	If yes [to 5, 6, 7, 8 or 9 above] have you identified steps to address the issues?				
Statement by researcher					
This statement should explain how any issues identified in the answers to the above questions will be addressed and what steps will be taken to mitigate such risks or adverse impact					
This research does not require any real user participation, neither does it involve external					
organisations nor does it have an impact on the environment. Any experiments will be					
conducted and analysed on generated data reflecting possible scenarios. The data being used has no sensitivity. No anonymisation of data is therefore required for the analysis and					
evaluation. Secondary sources will be provided through the university resources. In conclusion,					
no issues regarding the ethical and risk procedures needs to be addressed.					
I have read the University and the Faculty Ethics Policy and Procedures and confirm					
that the answers I have given above are correct. Where issues arise under items 5, 6, 7, 8 or 9 [above] I have described in writing how I intend to approach these issues in the research.					
Re	Researcher's signature  Researcher's signature				
D	<b>Date</b> 19 November 2016				

Section Two: Approval			
The form is reviewed by the supervisor and sec green projects; amber projects must be approve referred to the Faculty Research Ethics Committ	ed by the second marker. Red project		
Amber: Human participants, environmental is.  Green: No participants involved, no sensitive  For full definitions see section on Risk Catego		ı, etc.	
Procedures.			
Ethical approval			
Green - Ethical approval is given without condit	ions	$\boxtimes$	
Amber - Ethical approval is given with the follo	wing conditions		
<ul><li>Information to be provided to all particle</li><li>Participant consent to be obtained usin</li></ul>			
<ul><li>Consent Form or otherwise in accordance</li><li>Data to be stored and destroyed secure</li></ul>	ce with Faculty procedures		
<ul> <li>guidelines</li> <li>Adherence to Data Protection Act (DPA)</li> <li>Anonymity to be provided to participants</li> </ul>			
<ul> <li>Anonymity to be provided to participan</li> <li>Commercial confidentiality to be provid</li> <li>Other (please state):</li> </ul>			
Red - Project is referred to FREC for approval			
Name of Approver	Dr Haider al-Khateeb		
Signature	Haiden M.K.		
Date	20 November 2016		
Outcome of FREC referral – Decision, minutwo signatories, one of whom is a member of	9	es of	