

Faculty of Technology, Design and Environment - Ethics Review Form E1

- This form should be completed jointly by the **Supervisor and Student** who is undertaking a research/major project which involves human participants.
- It is the **Supervisor** who is responsible for exercising appropriate professional judgement in this review.
- Before completing this form, please refer to the University **Code of Practice for the Ethical Standards for Research involving Human Participants**, available at <http://www.brookes.ac.uk/Research/Research-ethics/> and to any guidelines provided by relevant academic or professional associations.
- Note that the ethics review process needs to fully completed and signed **before fieldwork commences**.

(i) **Project Title: Forest Fire Detection and Severity Assessment Using Improved YOLOv5 on Satellite Imagery**

(ii) **Name of Supervisor and School in which located: IRFAN ULLAH, College of Computer and Network Security Chengdu University of Technology, Chengdu 610059, China**



(iii) **Name of Student and Student Number: Li Qinglian (Jane), 202118010402**

(iv) **Brief description of project outlining where human participants will be involved (30-50 words):**

The aim of this proposed project is to develop a deep learning framework based on YOLOv5 to quickly identify the location of active fires, estimate the burned area, and classify the severity of fires by analyzing satellite imagery.

		Yes	No
1.	Does the study involve participants who are unable to give informed consent (e.g. children, people with learning disabilities)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2.	If the study will involve participants who are unable to give informed consent (e.g. children under the age of 18, people with learning disabilities), will you be unable to obtain permission from their parents or guardians (as appropriate)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3.	Will the study require the cooperation of a gatekeeper for initial access to groups or individuals to be recruited (e.g. students, members of a self-help group, employees of a company)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.	Are there any problems with the participants' right to remain anonymous, or to have the information they give not identifiable as theirs?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5.	Will it be necessary for the participants to take part in the study without their	<input type="checkbox"/>	<input checked="" type="checkbox"/>

	knowledge/consent at the time? (e.g. covert observation of people in non-public places?)		
6.	Will the study involve discussion of or responses to questions the participants might find sensitive? (e.g. own traumatic experiences)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7.	Are drugs, placebos or other substances (e.g. food substances, vitamins) to be administered to the study participants?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8.	Will blood or tissue samples be obtained from participants?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9.	Is pain or more than mild discomfort likely to result from the study?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10.	Could the study induce psychological stress or anxiety?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11.	Will the study involve prolonged or repetitive testing of participants?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
12.	Will financial inducements (other than reasonable expenses and compensation for time) be offered to participants?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
13.	Will deception of participants be necessary during the study?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
14.	Will the study involve NHS patients, staff, carers or premises?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Signed:		Supervisor
Signed:		Student
Date:	2024.11.3	

What to do now:

1. If you have answered 'no' to all the above questions:
 - (a) The student must **submit** the completed and fully signed E1 form to their **Dissertation Module Leader via Moodle**.
 - (b) The student must keep a copy of the E1 form which must be bound into their dissertation as an appendix.
 - (c) The supervisor must keep a copy of the E1 form as they are responsible for monitoring compliance during the fieldwork.
2. If you have answered 'yes' to **any** of the above questions:
 - (a) The supervisor and student must complete the TDE E2 form available at <http://www.brookes.ac.uk/Research/Research-ethics/Ethics-review-forms/>
 - (b) Note that the information in the E2 must be in **sufficient detail** for the ethical implications to be clearly identified.
 - (c) The signed E2 and signed E1 Form must be emailed to Bridget Durning (bdurning@brookes.ac.uk) who is the Faculty Research Ethics Officer (FREO) for review. Please allow **at least two weeks** for this review process.
 - (d) If/when approved the FREO will issue an E3 Ethics Approval Notice.
 - (e) The student must send the E1, E2 and E3 Notice **to the Dissertation Module Leader**.
 - (f) The student must also keep copies which must be bound into their dissertation as an appendix.
 - (g) The supervisor must keep a copy of documentation to monitor compliance during field work.
3. If you answered 'yes' to any of questions 1-13 and 'yes' to question 14, an application must be submitted to the appropriate NHS research ethics committee. This is an onerous and time consuming process so the supervisor should liaise early with the FREO if the student is considering this.