


UK Research
and Innovation


UNIVERSITY OF

Southampton


MIND6004
FEASIBILITY STUDY
MODULE OVERVIEW

Tim Norman (module leader)

 @mindscdt
#UKRIPeopleandSkills



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MINDS-CDT


LEARNING OUTCOMES



- Knowledge and Understanding:
 - Principles of responsible research and innovation
 - Communication and outreach strategies
 - Theoretical and application development at the research frontier of one aspect of hardware-enabled AI
- Subject Specific Intellectual and Research Skills:
 - Formulate research questions in hardware-enabled AI

<https://secure.ecs.soton.ac.uk/module/2021/MIND6004/>

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MINDS-CDT

LEARNING OUTCOMES



- Transferable and Generic Skills:
 - Communicate the value of research contributions to a technical audience
 - Apply interdisciplinary research strategies and skills
- Subject Specific Practical Skills:
 - Design, test, and evaluate the performance of algorithms, hardware devices and systems

<https://secure.ecs.soton.ac.uk/module/2021/MIND6004/>

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MINDS-CDT

SCHEDULE

- Start: Monday 14th June
 - The students gave demos on their team projects yesterday, so please give them a break for the rest of this week!
- Dissertation handin
 - Monday 13th September at 12:00
- Demonstrations
 - With supervisory team and second examiner
 - Form Monday 13th September
 - To Friday 24th September
 - Student must contact examiners to arrange demonstration




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DELIVERABLES



- Dissertation (70%)
 - Monday 13th September
 - Around 10,000 word report
 - Must include an impact assessment
 - `texcount -sum -inc myreport.tex -out=myreport.sum`
- Demonstration (30%)
 - Date to be arranged
 - Virtual or in-person viva voce

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ASSESSMENT CRITERIA

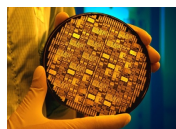
- Impact assessment
 - Discussion of benefits and potential negative impacts on a range of stakeholders; mitigation strategies for negative impacts
- Technical approach
 - Explanation of the technical details of the approach taken, and its rationale
- Evaluation
 - Critical, comparative evaluation and reflection
 - Rigorous testing; use of statistical hypothesis testing, complexity analysis, etc.



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ASSESSMENT CRITERIA

- Achievement
 - New results, or publishable for 80%+
 - Innovation and creativity; laying the foundation for the PhD
- Writing
 - Spelling and grammar, references complete, citations consistent
 - Review of related work, well-argued research questions
- Demonstration (30%)
 - Knowledge and understanding of research area
 - Informed responses to questions



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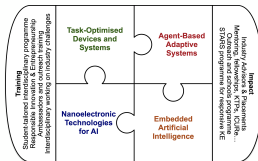
ASSESSMENT PROCESS

- Done through the ECS e_marking system
- You *will* be given access via your University login if you're not a member of ECS
- Dissertations are plagiarism-checked via Handitin
- Two independent marks from
 - Supervision team as a group
 - Second marker (supervisor of another MIND6004 project)
- Moderation: supervisors and second marker meet to agree a final mark and **provide justification**
- If marks diverge significantly, or if agreement cannot be reached, and **third marker** is brought in



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PROGRESSION

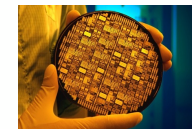


- Progression to research phase requires:
 - An **average** of 60% in all modules in Year 1; and
 - **60% or greater** for MIND6004
- Exit award of MSc requires 50% for MIND6004
- ...but this is all about the **PhD**, so use this summer to get things moving!

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ENGAGEMENT

- Weekly meetings between students and supervisors
 - Industry partner engagement organized by agreement
- Weekly cohort catch-ups
 - Please attend
 - Important for sharing experiences & maintaining cohort
- Reading groups
 - Supervisors can advise; e.g. Reinforcement Learning reading group in AIC
- Student-led initiatives
 - E.g. Cohort 1 meet regularly to talk to each other about their research



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