

Sub-panel 11

Computer Science and Informatics

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Scope of the UoA

- Focuses on research that:
 - advances knowledge of computing and information systems
 - involves rigorous analysis, experimentation & design
- Excludes applications of known methods to:
 - support research in other disciplines
 - solve real-world problems
- Includes multi-disciplinary research that:
 - contributes significantly to the primary focus
 - will be assessed in its entirety

Criteria and Working Methods

- Substantially the same for all Engineering UoAs
 - general approach to outputs
 - general approach to impact
 - general approach to environment
- Distinctive issues for UoA 11
 - particular types of output
 - use of citations
 - particular types of impact

Outputs

- All forms of output treated equally eg
 - publications
 - software and algorithms
 - systems and devices
 - patents
 - standards
- Evaluation
 - originality, significance & rigour of underlying research
 - factual statement on significance, citations
 - all papers/documents will be read

Citations

- Only engineering UoA to use citations
- Scopus & Google Scholar
 - coverage
 - culture of the discipline
- Use of citation data
 - secondary to peer judgement
 - evidence of academic significance
 - recognised as potentially unreliable
 - only used as positive evidence

Impact

- Underpinned by internationally recognised research
- Demonstrable economic or social impact
 - not just evidence of uptake/engagement
- Open source software
 - downloads: pathway not an impact
 - use in academic/industrial research: pathway not an impact
 - demonstrate actual economic/social benefit beyond HEI
- Spin-outs and spin-offs
 - primary impact may be small (eg jobs, turnover)
 - secondary impact can be large

It's about research quality

- Reusable knowledge
- Academic impact
- Real-world impact