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BEYOND THE TROLLEY PROBLEM: ETHICS FOR THE 21ST CENTURY

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INTRODUCTION



GETTING TO TERMS

ETHICS

moral principles that govern a person's behaviour or the conducting of an activity.

MORALITY

principles concerning the distinction between right and wrong or good and bad behavior

BIAS

prejudice in favor of or against one thing, person, or group compared with another, usually in a way considered to be unfair

LAW

system of rules that a particular country or community recognizes as regulating the actions of its members and may enforce by the imposition of penalties.

THE IMPACT OF TECHNOLOGY





ETHICS VS ETHICAL DILEMMAS: THE TROLLEY PROBLEM


```
((report1 *points* all out))
((setq p (find fn *points*
               :key #'fn-name))
 (report1 (list p) all out))
(t (format out "~%~A is not annotated."
             fn))))
values))
```

```
(lisp:defun fn-name (p)
  (let ((form (cadr (car (name p)))))
    (and (consp form)
          (consp (cdr form))
          (cadr form))))
```

```
(lisp:defun report1 (ps *all* *out*)
  (let ((*depth* 0) (*done* t))
    (mapc #'report2 ps)
    (when *done*
      (format *out*
        "~%;All points exercised."))))
  (defvar *line-limit* 75)
  (proclaim '(special *depth* *all*
                      *out* *done*)))
```

```
(lisp:defun report3 (p)
  (setq *done* nil)
  (let* ((*print-pretty* nil)
        (*print-level* 3)
        (*print-length* nil)
        (m (format nil
                    "~V~T~:~[-~;+~]~{ ~S~}"
                    (length*
                     (= (bit p *hit*)
                        (car (name p))))
                     (limit (- *line-limit* 3))))
          (when (> (length m) limit)
            (setq m (subseq m 0 limit))))
    (format *out* "%~A <~S>" m (id p))))
```

```
isp: defun report1 (ps *all* *out*)
  (let ((*depth* 0) (*done* t))
    (mapc #'report2 ps)
    (when *done*
      (format *out*
        "~%; All points exercised."))))
```



ALGORITHMIC ETHICS?

DATA ETHICS?



SENSOR ETHICS?

Cat.

SYSTEMS ETHICS?

AI WILL POSE NEW ETHICAL DILEMMAS

The image features a background of a grid of red and blue squares. Overlaid on this grid is a large, bold, white text that reads "EXPLICABILITY IS AN IMPORTANT APPROACH". The background also contains faint, semi-transparent code snippets in various colors (red, green, blue) that appear to be Lisp or Scheme code, related to the AIDC project mentioned in the text. In the bottom right corner, there is a logo for "AIDC" with the text "INTEL AI DEVCON 2018" underneath it.



BUILDING ROOM FOR THE CONVERSATIONS AND THEIR CONSEQUENCES



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