Programming Machine Ethics – Introduction

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Introduction
Weak Completion Semantics
Programming Machine Ethics
Machine Ethics under Weak Completion Semantics

"Logic is everywhere ..."
Programming Machine Ethics

Luíz Moniz Pereira and Ari Saptawijaya: Programming Machine Ethics
Studies in Applied Philosophy, Epistemology and Rational Ethic. Volume 26
Springer: 2016

https://link.springer.com/article/10.1007/s00146-017-0690-y

The first goal of this lecture is to read and understand the book
Weak Completion Semantics

- Is a new cognitive theory based on
  - weakly completed logic programs
  - 3-valued Łukasiewicz logic
  - minimal models
  - a semantic operator computing these models
  - abduction
  - connectionist realization

- The second goal of this lecture is to encode some of the morality examples under the weak completion semantics
Preliminary Time Frame

- 3. & 10.4. Lecture WCS
- 17.4. Easter Monday
- 24.4. Reading Class
- 1.5. Holiday
- 8. & 15.5. Reading Class
- 22.5. Exercises WCS
- 29.5. Reading Class
- 5.6. Semester Break
- 12.6. Reading Class
- 19.6. Practical Work
- 26.6. Presentations & Reading Class
- 3.7. Practical Work
- 10.7. Presentations
First Assignments

- Please read the review by Robert Kowalski
- Please read Chapters 1-3 until or over the Easter Holidays