

Argumentation-based Approaches to Paraconsistency

Ofer Arieli

School of Computer Science
The Academic College of Tel-Aviv, Israel
oarieli@mta.ac.il
<http://www.cs.mta.ac.il/~oarieli>

São Paulo School of Advanced Science
Contemporary Logic, Rationality and Information (SPLogIC)
University of Campinas, Campinas, Brazil
5–18 February, 2023

Acknowledgments

The Centre for Logic, Epistemology and the History of Science – CLE



(a) Prof. Itala D'Ottaviano



(b) Prof. Walter Carnielli

São Paulo Research Foundation – FAPESP

Israel Science Foundation – ISF (grant 550/19)

Prof. da Costa 90th Anniversary and Beyond



Primary Collaborators (for the material of this course)

Paraconsistency:



(a) Prof. Arnon
Avron



(b) Prof. Anna
Zamansky

Argumentation:



(a) Prof. Christian
Straßer



(b) Dr. AnneMarie
Borg



(c) Dr. Jesse
Heyninck

Plan of the Course

- A tutorial on *argumentation*-based methods for *non-monotonic paraconsistent* reasoning.
- Five meetings, 1.5 hour each.

Plan of the Course

- A tutorial on *argumentation*-based methods for *non-monotonic paraconsistent* reasoning.
- Five meetings, 1.5 hour each.
- General plan:
 - **Module 1:** Instantiations of paraconsistent reasoning
 - **Module 2:** Logical argumentation frameworks
 - **Module 3:** Representation issues, rationality postulates
 - **Module 4:** Proof methods
 - **Module 5:** Relations to other non-monotonic formalisms

Plan of the Course

- A tutorial on *argumentation*-based methods for *non-monotonic paraconsistent* reasoning.
- Five meetings, 1.5 hour each.
- General plan:
 - **Module 1:** Instantiations of paraconsistent reasoning
 - **Module 2:** Logical argumentation frameworks
 - **Module 3:** Representation issues, rationality postulates
 - **Module 4:** Proof methods
 - **Module 5:** Relations to other non-monotonic formalisms

Please don't hesitate to ask questions during the talks