

Workshop: 100 Years of Refutation in Logic

Organizers:

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This Workshop is dedicated to the 100th anniversary of the publication of the article “Two-Valued Logic” (1921) by Jan Łukasiewicz, where for the first time in the history of modern formal logic the falsehood of an assertion was related not to a particular circumstance (“state of affair”) but to the act of rejection. Namely he wrote: “The words “I assert” are denoted by U , and the words “I reject” by N . I consider the sentences: $U : 1, N : 0$, which are read: “I assert truth” and “I reject falsehood”, respectively, to be the fundamental principles of two-valued logic [...]” Later on elsewhere, Łukasiewicz wrote that “of two intellectual acts, to assert a proposition and to reject it, only the first has been taken into account in modern formal logic [...]” while “the idea of rejection [...] has been neglected [...]”. However, even in the traditional treatment of classical logic, a reference to refutation appears, albeit implicitly, when the assertion ‘ B implies A ’, where A is an axiom, is accepted as true. This is not because the assertion B is stronger than the assertion A , but rather because the refutation of this implication is impossible.

Keynote Speakers:

- Valentin Goranko (<https://www2.philosophy.su.se/goranko/>)
“TBA”
- Tomasz Skura (https://www.researchgate.net/profile/Tomasz_Skura)
“Refutation calculi and refined counter-model constructions in non-classical logics”

Topics of Interest (including but not limited to):

- Logical systems including refutation
- Refutation and admissible rules
- Refutation and proof
- Refutation and paraconsistency
- Refutation and negation
- Refutation and non-Fregean logics
- Refutation as operator
- Refutation and semantics (matrix, inferentialist, etc.)
- Refutation and abductive reasoning
- Refutation and the philosophy of language
- Refutation and meaning theory