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Partial metric topology. (English) [\[Zbl 0911.54025\]](#)

Andima, Susan (ed.) et al., Papers on general topology and applications. Papers from the 8th summer conference at Queens College, New York, NY, USA, June 18–20, 1992. New York, NY: The New York Academy of Sciences. Ann. N. Y. Acad. Sci. 728, 183-197 (1994).

Summary: Metric spaces are inevitably Hausdorff and so cannot, for example, be used to study non-Hausdorff topologies such as those required in the Tarskian approach to programming language semantics. This paper presents a symmetric generalized metric for such topologies, an approach which sheds new light on how metric tools such as Banach's theorem can be extended to non-Hausdorff topologies.

For the entire collection see [\[Zbl 0903.00047\]](#).

MSC:

- [54E35](#) Metric spaces, metrizable
- [54H25](#) Fixed-point and coincidence theorems (topological aspects)
- [47H10](#) Fixed-point theorems
- [68Q55](#) Semantics in the theory of computing
- [68Q60](#) Specification and verification (program logics, model checking, etc.)

Cited in **43** Reviews
Cited in **409** Documents

Keywords:

[quasi-metric](#); [symmetric generalized metric](#)

Full Text: [DOI](#)