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Handbook of Spatial Logics

- The first systematic account of the field of spatial logic
- Of interest to academics and graduate students working in the areas of Geometry, Topology, Logic, Computer Science and Philosophy
- Gathers together results on logic and geometry currently scattered over many different disciplines
- Each chapter is a self-contained survey of a particular topic in spatial logic

A spatial logic is a formal language interpreted over any class of structures featuring geometrical entities and relations, broadly construed. In the past decade, spatial logics have attracted much attention in response to developments in such diverse fields as Artificial Intelligence, Database Theory, Physics, and Philosophy. The aim of this handbook is to create, for the first time, a systematic account of the field of spatial logic. The book comprises a general introduction, followed by fourteen chapters by invited authors. Each chapter provides a self-contained overview of its topic, describing the principal results obtained to date, explaining the methods used to obtain them, and listing the most important open problems. Jointly, these contributions constitute a comprehensive survey of this rapidly expanding subject.

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