The first idea behind this book came to us at the end of 2011 when we taught a seminar on Mereology and Set Theory at the University of Urbino. During several discussions it became clear that a comprehensive treatment of possible applications of mereology to contemporary sciences was missing. The present work is our modest attempt, as far as it is possible, to fill this gap. It grew from being a proposal for a special issue of a journal into a fully-fledged book.

We want to thank all the contributors to the volume who accepted enthusiastically our invitation and had the patience to satisfy our requests. Each one of them has written a significant and important contribution.

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