

## **Preface to the Second Edition**

In this edition we made minor corrections kindly pointed out to us by some colleagues, and we updated and expanded the bibliography. We have not included the developments of the theory of gradient flows occurred in the last three years, as gradient flows in spaces with Alexandrov curvature bounds [135] (see also [119]) and Fokker-Planck equations in infinite-dimensional spaces [18], largely based on the ideas developed in the book. We also mention the long survey paper [17], more focussed on gradient flows in Euclidean spaces with respect to the quadratic Wasserstein distance, where the notion of Evolution Variational Inequality is discussed more in detail, and the monumental book of C. VILLANI [147], which will surely become the standard reference for the theory of Optimal Transport and its applications to geometry and PDE's.

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Gradient Flows

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Measures

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