

## Contents

Foreword	vii
List of Speakers	xi
Group Photo of the Participants	xii
List of Participants	xiii
An Overview on Calculus and Heat Flow in Metric Measure Spaces and Spaces with Riemannian Curvature Bounded from Below <i>Luigi Ambrosio</i>	1
Analysis on the Sierpinski Carpet <i>M. T. Barlow</i>	27
Heat Kernel Estimates, Sobolev-Type Inequalities and Riesz Transform on Noncompact Riemannian Manifolds <i>Thierry Coulhon</i>	55
Regularity of Minimal and Almost Minimal Sets and Cones: J. Taylor's Theorem for Beginners <i>Guy David</i>	67
Lectures on Ma-Trudinger-Wang Curvature and Regularity of Optimal Transport Maps <i>Young-Heon Kim</i>	119
Five Lectures on Optimal Transportation: Geometry, Regularity and Applications <i>Robert J. McCann and Nestor Guillen</i>	145
A Proof of Bobkov's Spectral Bound For Convex Domains via Gaussian Fitting and Free Energy Estimation <i>Emanuel Milman</i>	181
A Visual Introduction to Riemannian Curvatures and Some Discrete Generalizations <i>Yann Ollivier</i>	197