cases	doc_1	doc_2	decision	id
			DUPLICATES	1237

doc_1

authors	• Lu, Y. • Yang, D. • Yuan, W.
title	Morrey-Sobolev Spaces on Metric Measure Spaces
publication_date	2013-09-11 00:00:00
source	SupportedSources.CROSSREF
journal	
volume	
doi	10.1007/s11118-013-9370-9
urls	• http://link.springer.com/content/pdf/10.1007/s11118-013-9370-9.pdf • http://link.springer.com/article/10.1007/s11118-013-9370-9/fulltext.html • http://link.springer.com/content/pdf/10.1007/s11118-013-9370-9 • http://dx.doi.org/10.1007/s11118-013-9370-9
id	id-5704397959495710225
abstract	
versions	

doc_2

authors	• Yufeng Lu • Dachun Yang • Wen Yuan
title	Morrey-Sobolev Spaces on Metric Measure Spaces
publication_date	2013-04-14 02:15:55+00:00
source	SupportedSources.ARXIV
journal	None
volume	
doi	
urls	• http://arxiv.org/pdf/1304.3871v2 • http://arxiv.org/abs/1304.3871v2 • http://arxiv.org/pdf/1304.3871v2
id	id-6663650243493337679
abstract	In this article, the authors introduce the Newton-Morrey-Sobolev space on a metric measure space $(\mathscr{X},d,\mu)$. The embedding of the Newton-Morrey-Sobolev space into the H\"older space is obtained if $\mathscr{X}$ supports a weak Poincar\'e inequality and the measure μ is doubling and satisfies a lower bounded condition. Moreover, in the Ahlfors Q-regular case, a Rellich-Kondrachov type embedding theorem is also obtained. Using the Haj{\l}asz gradient, the authors also introduce the Haj{\l}asz-Morrey-Sobolev spaces, and prove that the Newton-Morrey-Sobolev space coincides with the Haj{\l}asz-Morrey-Sobolev space when μ is doubling and $\mathscr{X}$ supports a weak Poincar\'e inequality. In particular, on the Euclidean space ${\mathbb R}^n$, the authors obtain the coincidence among the Newton-Morrey-Sobolev space, the Haj{\l}asz-Morrey-Sobolev space and the classical Morrey-Sobolev space. Finally, when $(\mathscr{X},d)$ is geometrically doubling and μ a non-negative Radon measure, the boundedness of some modified (fractional) maximal operators on modified Morrey spaces is presented; as an application, when μ is doubling and satisfies some measure decay property, the authors further obtain the boundedness of some (fractional) maximal operators on Morrey spaces, Newton-Morrey-Sobolev spaces and Haj{\l}asz-Morrey-Sobolev spaces.
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