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# Manifolds: Intrinsic Formulation and Controllability

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[Petri Kokkonen](#)

*(Submitted on 12  
Nov 2010)*

In this

paper,  
we  
consider  
two  
cases of  
rolling of  
one  
smooth  
connected  
complete  
Riemannian  
manifold  
 $(M, g)$   
onto  
another  
one  
 $(\tilde{M}, \tilde{g})$   
of  
equal  
dimension  
 $n \geq 2$ .  
The  
rolling  
problem  
 $(NS)$   
corresponds  
to the  
situation  
where