Marc Alexa (TUB), Jürgen Döllner (HPI), Peter Eisert (HUB), Hans-Christian Hege (ZIB), Konrad Polthier (FUB), John Sullivan (TUB)

## How much information do we need to find correspondence between non-rigid shapes?

## Prof. Michael Bronstein

USI Università della Svizzera italiana

Montag, 6. Mai 2013 um 17:15 Uhr Zuse-Institut Berlin (ZIB), Takustraße 7, 14195 Berlin Hörsaal (Rundbau, Erdgeschoss)



In the first part of the talk, I will present a novel sparse modeling approach to nonrigid shape matching using only the ability to detect repeatable regions. As the input to our algorithm, we are given only two sets of regions in two shapes; no descriptors are provided so the correspondence bevery accurate correspondence between the shapes by posing it as a problem of permuted sparse coding, being this, the first nontrivial use of sparse models in shape correspondence.

In the second part of the talk, I will show

tween the regions is not known, nor do we know how many regions correspond in the two shapes. I will show that even with such scarce information, it is possible to establish







