INSALATE DI MATEMATICA

presents

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EUGENIO BELLINI

Università degli Studi di Milano-Bicocca

Geometry of surfaces in contact sub-Riemannian manifolds

Abstract:

In this talk, after giving a quick introduction to contact sub-Riemannian geometry, I will present some results concerning the induced geometry of embedded surfaces. We will see how not all surfaces inherit a natural metric-space structure and classify the generic ones that admit an induced distance. Time permitting, we will classify, in terms of combinatorial objects, the generic metric spaces that can emerge as surfaces embedded in contact sub-Riemannian manifolds.

Keywords: Differential geometry · sub Riemannian geometry · contact geometry

Dipartimento di Matematica e Applicazioni

Università degli Studi di Milano-Bicocca

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04:30 pm (CET)

"Obvious" is the most dangerous word in mathematics.
(Eric Temple Bell)