

# An historical review on nonholonomic mechanics

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In the first part of the talk, we will give an historical overview on nonholonomic mechanics, devoting special attention to the last century. In recent years, the use of differential geometry has permitted to go further in the theory, particularly in the study of symmetries and reduction, the development of a convenient Hamilton-Jacobi theory and new geometric integrators. The second part will be devoted to present these last achievements.