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## Non-Singular foliations in the plane

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Control theory is the area of applied mathematics which research the control of certain physical processes and systems. This theory has connection with classical branches of mathematics. Some questions of it leads to the study of foliation theory as well.

In our report we will consider non-singular foliations in the plane and describe the structure of group of automorphisms on such foliation. As well we will present the application of non-singular foliations in the control theory.