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**MODELING OF INVARIANT VECTOR FIELDS DEFINED BY THE INTEGRAL CURVES OF
DYNAMIC SYSTEMS**

The paper is concerned around the algorithm of formation of vector field sin variants. They are defined by integral curves of dynamic systems, according to the action of a Lie transformation group with dependence of group elements on the point of a space curve. It is used the geometry of bundles to visualize the vector fields. It is shown that for two spatial curves we can construct animagery based on a Lie group, which allows to compare the curves.

Keywords: pattern recognition of vector fields, invariants of vector fields, comparison of space curves, principal fibration.

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