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Research fields

Mathematics

Differential Geometry

Information Geometry

Key Words

Statistical manifold

Kählerian manifold

Sasakian manifold

Their statistical submersions

Subject of research on Data Science :

Fundamental research on “XX” using
information geometry and its application.

For example, “XX” is “probability
distribution” or “time series”, etc.

1. [Kazuhiko Takano](#) and Zerrin Şentürk, Geometric properties of system spaces of auto-regressive process of degree 1. preprint.
2. [Kazuhiko Takano](#) and Jun-ichi Inoguchi, Kenmotsu-like statistical manifolds and their submersions. preprint.
3. Adela Mihai, Ion Mihai, Mohammad Hasan Shahid and [Kazuhiko Takano](#), Structures on Statistical Manifolds and Statistical Submanifolds, preprint.
4. [Kazuhiko Takano](#), Sasaki-like statistical submersions. submitted.
5. [Kazuhiko Takano](#), Aliya Naaz Siddiqui and Ali Hussain Alkhaldi, On Hessian statistical submersions, submitted.
6. Alexandru Ciobanu, Adela Mihai and [Kazuhiko Takano](#), Casorati curvatures for statistical and Hessian submersions, submitted.
7. [Kazuhiko Takano](#), Adela Mihai, Ion Mihai and Mohammad Hasan Shahid, Invariant holomorphic statistical submersions, International Electronic Journal of Geometry, 18 (2), 475-487, 2025.
8. [Kazuhiko Takano](#), On ϕ -invariant Sasaki-like statistical submersions, Romanian Journal of Mathematics and Computer Science, 15 (2), 18-45, 2025.