

THE NECESSARY AND SUFFICIENT CONDITIONS OF THE SHEAF OPTIMIZATION PROBLEM

Phan Van Tri

Abstract. The purpose of this paper is to introduce the sheaf optimization problem (SOP) and find the necessary and sufficient conditions of SOP.

[Full text](#)

References

- [1] A. D. Ovsyannikov, *Mathematical methods in sheaf controls* (In Russian), Leningrad University Pub., 1980.
- [2] N. D. Phu and T.T. Tung, *Some properties of sheaf-solutions of sheaf fuzzy control Problems*, Electronic Journal of Differential Equations Vol (2006), N. 108, 1-8. [MR2255223](#). [Zbl 1110.93031](#).
- [3] N. D. Phu and T.T. Tung, *Some results on sheaf solutions of sheaf set control problem*, J. Nonlinear Analysis: TMA, **9** (2007), 1309 - 1315. [MR2323280](#). [Zbl 1113.49003](#).
- [4] N. D. Phu, *On the Global Controllable for Set Control Differential Equations*, International Journal of Evolution Equations, **4** (3) (2009), 281-292. [MR2654508](#). [Zbl 1195.93062](#).
- [5] N. D. Phu and P. V. Tri, *Some kinds of sheaf control problems for control systems*, J. Applied Mathematics **3** (2012), 39-44. [MR2904668](#).
- [6] N. D. Phu and L. Q. Dung, *On the Stability and Controllability of Fuzzy Set Control Differential Equations*, International Journal of Reliability and Safety **5** No 3-4 (2011), 320-335.

Phan Van Tri
Faculty of Mathematics and Statistics,

2010 Mathematics Subject Classification: 49K15; 93C15.
Keywords: Sheaf solutions; Sheaf Control; Sheaf Optimization.

<http://www.utgjiu.ro/math/sma>

Ton Duc Thang University,
No. 19 Nguyen Huu Tho Street, Tan Phong Ward, District 7,
Ho Chi Minh City, Viet Nam.
e-mail: tripv@tdt.edu.vn

Surveys in Mathematics and its Applications **8** (2013), 137 – 144
<http://www.utgjiu.ro/math/sma>