

	姓名	田大东	学历	博士	职称	副教授
	所属部门	应用数学系				
	联系方式					

简介：研究方向复杂系统分析与控制，包括切换系统、正系统及非线性系统的稳定性分析与控制。

教学工作：数学专业本科教学，主要从事常微分方程、微分几何等课程的教学工作；此外还从事高等数学、复变函数与积分变换等公共数学课的教学工作。2020 获得山东农业大学信息学院青年教师讲课比赛二等奖，2021 获得山东农业大学信息学院青年教师讲课比赛一等奖，2022 年获得山东农业大学青年教师讲课比赛一等奖。现承担指导学生 SRT 项目两项。指导学生参加全国大学生数学建模比赛，先后多次获得山东省一等奖等奖项。

研究方向：复杂系统分析与控制

参与博士生导师的项目：

1. 国家自然科学基金重点项目

项目名称：海洋有害藻华生态建模分析与区域污染控制
(61533011)

2. 国家自然科学基金委——山东省联合基金重点项目

项目名称：海洋生态环境多系统污染扩散共性建模分形分析及预报
(U1806203)

3. 国家自然科学基金面上项目

项目名称：广义正切换系统的稳定性和镇定性研究及应用

(61473133)

学术论文：（近五年发表的论文）

1. Dadong Tian, Shutang Liu, et al. Global exponential stability of 2-D switched positive nonlinear systems described by the Roesser model, *International Journal of Robust and Nonlinear Control*, 2019, 29(7): 2272–2282. (SCI)
2. Dadong Tian, Jianwei Xia, et al. Exponential stability analysis of switched positive nonlinear systems with impulsive effects via multiple maxseparable Lyapunov function, *Science China-Information Scienses*, doi: 10.1007/s11432-021-3368-y. (SCI)
3. Dadong Tian, Shutang Liu, et al., Reachable set estimation for switched positive systems with mixed time-varying delays and bounded disturbances. *IET Control Theory & Applications*, 2018, 12(15): 2003–2009. (SCI)
4. Geng Zhang, Dadong Tian*, Stability analysis of multiple-lattice self-anticipative density integration effect based on lattice hydrodynamic model in V2V environment, *Chinese Physics B*, 2021, 30(12): 120201,1-8. (SCI)
5. Dadong Tian, Shutang Liu, Exponential stability of switched positive

- homogeneous systems. *Complexity*, 2017, Article ID 4326028, 8 pages. (SCI)
6. Dadong Tian, Shutang Liu, Stability analysis for a class of switched positive nonlinear systems under dwell-time constraint. *Advances in Difference Equations*, 2018, 95: 1–13. (SCI)
 7. Wen Wang, Shutang Liu, Dadong Tian, et al., Pattern dynamics in a toxin producing phytoplankton-zooplankton model with additional food. *Nonlinear Dynamics*, 2018, 94(1): 211–228. (SCI)
 8. Qiuyue Zhao, Shutang Liu, Dadong Tian, Dynamic behavior analysis of phytoplankton and zooplankton system with cell size and time delay. *Chaos, Solitons & Fractals*, 2018, 113: 160–168. (SCI)
 9. Wen Wang, Shutang Liu, Dadong Tian, et al., Permanence and extinction of a non-autonomous impulsive plankton model with help. *Mathematical Methods in the Applied Sciences*, 2017, 40(18): 7175–7184. (SCI)
 10. Tiantian Huang Yuangong Sun, Dadong Tian, Finite-time stability of positive switched time-delay systems based on linear time-varying copositive Lyapunov functional. *Journal of the Franklin Institute*, 2022, 359 :2244–2258. (SCI)
 11. Zhibin Liu , Shutang Liu, Dadong Tian , et al., Stability analysis of the plankton community with advection. *Chaos, Solitons & Fractals*, 2021, 146:110836:1-10 (SCI)

12. Zhibin Liu , Shutang Liu, Wen Wang, Dadong Tian,
Self-Organization in a Plankton Community with Herd Predation
and Weakly Nonlinear Diffusion. International Journal of
Bifurcation and Chaos, 2021, 31(13): 1-16. (SCI)