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个人简历

滕志东、1960年11月生，博士，教授，博士生导师。自1985年开始微分方程稳定性理论和生物动力系统理论的研究工作。1990年由教育部公派前往原苏联攻读博士学位，系统学习了微分方程现代理论和控制系统理论，1995年获博士学位回国，继续在新疆大学从事教学与研究工作。近几年来，先后主持国家自然科学基金项目4项，教育部留学回国基金、重点项目、博士点基金各1项，自治区重点实验室项目1项，自治区高校科研计划重点项目、创新群体项目各1项。发表学术论文250余篇，SCI收录200余篇，论文被SCI期刊论文引用3500余次，最高引用次数达到70次。1991年获自治区科技进步三等奖（排名第二），2003年获自治区科技进步二等奖（排名第一），2010年获自治区科技进步二等奖（排名第一），2012年获自治区科技进步一等奖（排名第二），2016年获得自治区科技进步奖二等奖（排名第二），2006年获自治区优秀科技工作者一等奖，2016年获自治区有突出贡献优秀专家和国务院特聘专家称号。目前已培养博士后5人，博士研究生19人，硕士研究生50多人。培养的博士、硕士分别获自治区优秀博士毕业论文2篇，优秀硕士毕业论文2篇。培养的博士后、博士、硕士研究生中已有7人晋升为教授，1人聘为博士生导师，6人聘为硕士生导师。曾任新疆大学数学与系统科学学院副院长、院长、新疆大学数学博士后流动站站长、新疆大学图书馆馆长等职。历任教育部大学数学教学指导委员会委员，中国数学会理事，中国工业与应用数学会理事，中国生物数学会常务理事，生物数学学报编委，Math Review 特约评论员，新疆数学会副理事长等。

科研项目

1. 国家自然科学基金面上项目, 11771373, 具有不同时间尺度耦合的传染病动力学模型研究与应用, 2018/01-2021/12, 主持。
2. 自治区重点实验室基金, 2016D03022, 基于不确定因素的生态种群与传染病数学模型动力学行为研究, 2016/01-2018/12, 主持。
3. 国家自然科学基金地区项目, 11361059, 混杂生态动力学模型研究及应用, 2014/01-2017/12, 参加。
4. 教育部博士点专项基金, 20136501110001, 具有随机影响的传染病动力学模型的全局行为, 2014/01-2016/12, 主持。
5. 国家自然科学基金面上项目, 11271312, 非自治连续和离散传染病动力学模型研究及应用, 2013/01-2016/12, 主持。
6. 国家自然科学基金地区项目, 11261058, 新疆艾比湖地区微生物生长动力学模型研究, 2013/01-2016/1, 参加。
7. 中国博士后科学基金特别资助项目, 2012T50836, 状态依赖脉冲控制在生物数学模型中的应用研究, 2012/06-2014/06, 参加。
8. 新疆维吾尔自治区高校科研计划, XJEDU2011S08, 奇异摄动法在传染病动力系统中的应用研究, 2012/01-2013/12, 参加。
9. 中国博士后科学基金面上资助项目, 20110491750, 状态脉冲控制在恒化器模型中的应用研究, 2011/09-2013/09, 参加。
10. 新疆维吾尔自治区自然科学基金青年项目, 2011211B08, 状态脉冲控制在种群动力学模型中的应用, 2011/06-2013/12, 参加。
11. 国家自然科学基金地区项目, 离散传染病动力学模型研究及应用, 2010/01-2012/12, 主持。
12. 国家自然科学基金地区项目, 非自治种群动力系统的持久性和稳定性, 2004/01-2006/12, 主持。

科研奖励

- 1、生态与传染病系统动力学性态研究，新疆维吾尔自治区人民政府，2015 年度新疆维吾尔自治区科学技术进步奖，二等奖，2016 年，排名第二；
- 2、神经网络的动力学特征及其同步行为研究，新疆维吾尔自治区人民政府，2012 年自治区科技进步一等奖，2012 年，排名第二；
- 3、非线性种群动力学模型研究，新疆维吾尔自治区人民政府，2010 年度新疆维吾尔自治区科学技术进步奖，二等奖，2011 年，排名第一；
- 4、新疆大学学位与研究生教育工作优秀研究生指导教师，2016 年；
- 5、新疆维吾尔自治区第十批有突出贡献优秀专家，2015 年；
- 6、国务院政府特殊津贴，2015 年；
- 7、Dynamic analysis of an SIR epidemic model with state dependent pulse vaccination，新疆维吾尔自治区第十三届自然科学优秀学术论文奖，二等奖，2014 年，排名第二；
- 8、硕士研究生陈巧玲，2013 年度自治区优秀硕士学位论文；
- 9、The dynamics of a chemostat model with state dependent impulsive effects，新疆维吾尔自治区第十二届自然科学优秀学术论文奖，三等奖，2013 年，排名第二；
- 10、新疆大学“211 工程”三期项目建设先进个人，二等奖，2013 年；
- 11、硕士研究生胡增运，2011 年度自治区优秀硕士学位论文；
- 12、非线性传染病动力学模型研究，新疆大学第九届科学研究优秀成果奖，2012 年，排名第一；
- 13、神经网络的动力学特性及其同步行为研究，新疆大学第九届科学研究优秀成果奖，2012 年，排名第二；
- 14、新疆大学 2007—2011 年期间科学研究先进工作者，2012 年；
- 15、Global behavior and permanence of SIRS epidemic model with time delay，新疆维吾尔自治区第十一届自然科学优秀学术论文奖，一等奖，2011 年，排名第二；

- 16、Boundedness and Global Stability for Nonautonomous Recurrent Neural Networks with Distributed Delays, 新疆维吾尔自治区第十届自然科学优秀学术论文二等奖, 2009年, 排名第二;
- 17、Permanence for a delayed periodic predator-prey model with prey dispersal in multi-patches and predator density-independent, 新疆维吾尔自治区第十届自然科学优秀学术论文二等奖, 2009年, 排名第二;
- 18、博士研究生张太雷, 2008年度自治区优秀博士学位论文;
- 19、博士研究生张龙, 2007年度自治区优秀博士学位论文;
- 20、新疆大学优秀研究生指导教师, 2008年;
- 21、Existence and global exponential stability of almost periodic solution for cellularneural networks with vaiable coefficients and time-varying delays, 新疆维吾尔自治区第九届自然科学优秀学术论文奖, 一等奖, 2007年, 排名第三;
- 22、生命科学的三类非自治微分方程模型研究, 新疆大学第八届科学研究优秀成果奖, 特等奖, 2007年, 排名第一;
- 23、新疆大学“十五”“211工程”项目建设一等奖, 2007年;
- 24、新疆大学“十五”期间科学研究先进工作者, 2007年;
- 25、新疆维吾尔自治区优秀科技工作者, 2006年;
- 26、一类非自治种群生态系统的研究, 新疆维吾尔自治区科学技术进步奖, 一等奖, 2003年, 排名第一;
- 27、具有时滞的非自治 Lotka-Volterra 竞争系统的一致持续生存和严格正解的存在性, 新疆维吾尔自治区第六届自然科学优秀学术论文奖, 一等奖, 2001年, 排名第一;

社会工作

- 1、新疆数学学会第七届理事会副理事长, 2014/04/01-2018/04/01;
- 2、教育部高等数学大学数学课程教学指导委员会委员, 2013-2017年;
- 3、中国生物数学学会第七届理事会常务理事, 2012/07-2016/07;
- 4、新疆科协决策咨询专家, 2012-2014年;

科研成果（论文、专著等）

2018 年度

1. Wen, Buyu; Wang, Jianpeng; Teng, Zhidong. A discrete-time analog for coupled within-host and between-host dynamics in environmentally driven infectious disease. *Adv. Difference Equ.* 2018, Paper No. 69, 25 pp.
2. Zeng, Ting; Teng, Zhidong; Li, Zhiming; Hu, Junna. Stability in the mean of a stochastic three species food chain model with general Lévy jumps. *Chaos Solitons Fractals* 106 (2018), 258–265.
3. Wen, Buyu; Teng, Zhidong. The global dynamics for a stochastic SIS epidemic model with isolation. *Phys. A* 492 (2018), 1604–1624.
4. Li, Hong-Li; Zhang, Long; Teng, Zhidong; Jiang, Yao-Lin; Muhammadhaji, Ahmadjan. Global stability of an SI epidemic model with feedback controls in a patchy environment. *Appl. Math. Comput.* 321 (2018), 372–384. 92D305

2017年度

1. Pending Chen, Qiaoling; Teng, Zhidong. Codimension-two bifurcation analysis of a discrete predator-prey model with nonmonotonic functional response. *J. Difference Equ. Appl.* 23 (2017), no. 12, 2093–2115.
2. Luo, Yantao; Zhang, Long; Teng, Zhidong; Zheng, Tingting. Coexistence for an almost periodic predator-prey model with intermittent predation driven by discontinuous prey dispersal. *Discrete Dyn. Nat. Soc.* 2017, Art. ID 7037245, 15 pp.
3. Li, Yingke; Teng, Zhidong; Hu, Cheng; Ge, Qing. Global stability of an epidemic model with age-dependent vaccination, latent and relapse. *Chaos Solitons Fractals* 105 (2017), 195–207.
4. Pending Li, Yanqing; Zhang, Long; Teng, Zhidong. Single-species model under seasonal succession alternating between Gompertz and logistic growth and impulsive perturbations. *GEM Int. J. Geomath.* 8 (2017), no. 2, 241–260.
5. Li, Zhiming; Teng, Zhidong; Miao, Hui. Modeling and control for HIV/AIDS transmission in China based on data from 2004 to 2016. *Comput. Math. Methods Med.* 2017, Art. ID 8935314, 13 pp.
6. Muhammadhaji, Ahmadjan; Teng, Zhidong. Permanence and extinction analysis for a periodic competing predator-prey system with stage structure. *Int. J. Dyn. Control* 5 (2017), no. 3, 858–871.

7. Li, Hong-Li; Hu, Cheng; Jiang, Haijun; Teng, Zhidong; Jiang, Yao-Lin. Synchronization of fractional-order complex dynamical networks via periodically intermittent pinning control. *Chaos Solitons Fractals* 103 (2017), 357–363.
8. Qing; Li, Zhiming; Teng, Zhidong. Probability analysis of a stochastic SIS epidemic model. *Stoch. Dyn.* 17 (2017), no. 6, 1750041, 18 pp.
9. Miao, Hui; Teng, Zhidong; Kang, Chengjun. Stability and Hopf bifurcation of an HIV infection model with saturation incidence and two delays. *Discrete Contin. Dyn. Syst. Ser. B* 22 (2017), no. 6, 2365–2387.
10. Wang, Kai; Teng, Zhidong; Zhang, Xueliang. Dynamical behaviors of an Echinococcosis epidemic model with distributed delays. *Math. Biosci. Eng.* 14 (2017), no. 5-6, 1425–1445.
11. Li, Yingke; Teng, Zhidong; Ruan, Shigui; Li, Mingtao; Feng, Xiaomei. A mathematical model for the seasonal transmission of schistosomiasis in the lake and marshland regions of China. *Math. Biosci. Eng.* 14 (2017), no. 5-6, 1279–1299.
12. Li, Jinhui; Teng, Zhidong; Wang, Guangqing; Zhang, Long; Hu, Cheng. Stability and bifurcation analysis of an SIR epidemic model with logistic growth and saturated treatment. *Chaos Solitons Fractals* 99 (2017), 63–71.
13. Hu, Zengyun; Teng, Zhidong; Zhang, Tailei; Zhou, Qiming; Chen, Xi. Globally asymptotically stable analysis in a discrete time eco-epidemiological system. *Chaos Solitons Fractals* 99 (2017), 20–31.
14. Rifhat, Ramziya; Wang, Lei; Teng, Zhidong. Dynamics for a class of stochastic SIS epidemic models with nonlinear incidence and periodic coefficients. *Phys. A* 481 (2017), 176–190.
15. Li, Hong-Li; Zhang, Long; Hu, Cheng; Jiang, Yao-Lin; Teng, Zhidong. Dynamical analysis of a fractional-order predator-prey model incorporating a prey refuge. *J. Appl. Math. Comput.* 54 (2017), no. 1-2, 435–449.
16. Miao, Hui; Abdurahman, Xamxinur; Teng, Zhidong; Kang, Chengjun. Global dynamics of a fractional order HIV model with both virus-to-cell and cell-to-cell transmissions and therapy effect. *IAENG Int. J. Appl. Math.* 47 (2017), no. 1, 75–81. 9
17. Feng, Xiaomei; Wang, Kai; Zhang, Fengqin; Teng, Zhidong. Threshold dynamics of a nonlinear multi-group epidemic model with two infinite distributed delays. *Math. Methods Appl. Sci.* 40 (2017), no. 7, 2762–2771.
18. Li, Hong-Li; Zhang, Long; Hu, Cheng; Jiang, Yao-Lin; Teng, Zhidong. Dynamic analysis of a fractional-order single-species model with diffusion. *Nonlinear Anal. Model. Control* 22 (2017), no. 3, 303–316.
19. Fan, Xiaolin; Teng, Zhidong; Muhammadhaji, Ahmadjan. Global dynamics of a

- stochastic ratio-dependent predator-prey system. *Asian-Eur. J. Math.* 10 (2017), no. 1, 1750002, 20 pp.
20. Wang, Lei; Teng, Zhidong; Tang, Tingting; Li, Zhiming. Threshold dynamics in stochastic SIRS epidemic models with nonlinear incidence and vaccination. *Comput. Math. Methods Med.* 2017, Art. ID 7294761, 20 pp.
 21. Hong-Li; Wang, Zuolei; Jiang, Yao-Lin; Zhang, Long; Teng, Zhidong. Anti-synchronization and intermittent anti-synchronization of two identical delay hyperchaotic Chua systems via linear control. *Asian J. Control* 19 (2017), no. 1, 202–214.
 22. Abdurahman, Abdujelil; Jiang, Haijun; Teng, Zhidong. Lag synchronization for Cohen-Grossberg neural networks with mixed time-delays via periodically intermittent control. *Int. J. Comput. Math.* 94 (2017), no. 2, 275–295.
 23. Li, Hong-Li; Jiang, Yao-Lin; Wang, Zuolei; Feng, Xiaomei; Teng, Zhidong. Stability analysis for coupled systems of fractional differential equations on networks. *Int. J. Comput. Math.* 94 (2017), no. 2, 263–274.
 24. Li, Hong-Li; Zhang, Long; Teng, Zhidong; Jiang, Yao-Lin. A periodic single species model with intermittent unilateral diffusion in two patches. *J. Appl. Math. Comput.* 53 (2017), no. 1-2, 223–244.
 25. Tang, Qian; Teng, Zhidong; Abdurahman, Xamxinur. A new Lyapunov function for SIRS epidemic models. *Bull. Malays. Math. Sci. Soc.* 40 (2017), no. 1, 237–258.
 26. Li, Hong-Li; Zhang, Long; Teng, Zhi-Dong; Jiang, Yao-Lin. A delayed predator-prey system with impulsive diffusion between two patches. *Int. J. Biomath.* 10 (2017), no. 1, 1750010, 20 pp.

2016年度

1. Li, Jinhui; Teng, Zhidong. Dynamic analysis of a stochastic transmission model for echinococcosis. *Neural Parallel Sci. Comput.* 24 (2016), no. 2-3, 131–146.
2. Miao, Hui; Teng, Zhidong; Li, Zhiming. Global stability of delayed viral infection models with nonlinear antibody and CTL immune responses and general incidence rate. *Comput. Math. Methods Med.* 2016, Art. ID 3903726, 21 pp.
3. Muhammadhaji, Ahmadjan; Mahemuti, Rouzimaimaiti; Teng, Zhidong. On a periodic predator-prey system with nonlinear diffusion and delays. *Afr. Mat.* 27 (2016), no. 7-8, 1179–1197.
4. Li, Hong-Li; Hu, Cheng; Jiang, Yao-Lin; Wang, Zuolei; Teng, Zhidong. Pinning

adaptive and impulsive synchronization of fractional-order complex dynamical networks. *Chaos Solitons Fractals* 92 (2016), 142–149.

5. Zhang, Long; Xu, Gao; Teng, Zhidong. Intermittent dispersal population model with almost period parameters and dispersal delays. *Discrete Contin. Dyn. Syst. Ser. B* 21 (2016), no. 6, 2011–2037.
6. Zhang, Long; Teng, Zhidong. The dynamical behavior of a predator-prey system with Gompertz growth function and impulsive dispersal of prey between two patches. *Math. Methods Appl. Sci.* 39 (2016), no. 13, 3623–3639.
7. Abdurahman, Abdujelil; Jiang, Haijun; Teng, Zhidong. Exponential lag synchronization for memristor-based neural networks with mixed time delays via hybrid switching control. *J. Franklin Inst.* 353 (2016), no. 13, 2859–2880.
8. Miao, Hui; Teng, Zhidong; Kang, Chengjun; Muhammadhaji, Ahmadjan. Stability analysis of a virus infection model with humoral immunity response and two time delays. *Math. Methods Appl. Sci.* 39 (2016), no. 12, 3434–3449.
9. Rifhat, Ramziya; Ge, Qing; Teng, Zhidong. The dynamical behaviors in a stochastic SIS epidemic model with nonlinear incidence. *Comput. Math. Methods Med.* 2016, Art. ID 5218163, 14 pp.
10. Hu, Zengyun; Chang, Linlin; Teng, Zhidong; Chen, Xi. Bifurcation analysis of a discrete SIRS epidemic model with standard incidence rate. *Adv. Difference Equ.* 2016, Paper No. 155, 22 pp.
11. Wang, Jianpeng; Teng, Zhidong; Miao, Hui. Global dynamics for discrete-time analog of viral infection model with nonlinear incidence and CTL immune response. *Adv. Difference Equ.* 2016, Paper No. 143, 19 pp.
12. Abdurahman, Abdujelil; Jiang, Haijun; Teng, Zhidong. Finite-time synchronization for fuzzy cellular neural networks with time-varying delays. *Fuzzy Sets and Systems* 297 (2016), 96–111.
13. Fan, Xiaolin; Wang, Lei; Teng, Zhidong. Global dynamics for a class of discrete SEIRS epidemic models with general nonlinear incidence. *Adv. Difference Equ.* 2016, Paper No. 123, 20 pp.
14. Li, Zhiming; Teng, Zhidong; Zhang, Tianfang; Zhang, Runchu. Analysis on sn–m designs with general minimum lower-order confounding. *AStA Adv. Stat. Anal.* 100 (2016), no. 2, 207–222.

15. Teng, Zhidong; Wang, Lei. Persistence and extinction for a class of stochastic SIS epidemic models with nonlinear incidence rate. *Phys. A* 451 (2016), 507–518.
16. Teng, Zhidong; Wang, Ying; Rehim, Mehbuba. On the backward difference scheme for a class of SIRS epidemic models with nonlinear incidence. *J. Comput. Anal. Appl.* 20 (2016), no. 7, 1268–1289.

2015年度

1. Teng, Zhidong; Wang, Lei; Nie, Linfei. Global attractivity for a class of delayed discrete SIRS epidemic models with general nonlinear incidence. *Math. Methods Appl. Sci.* 38 (2015), no. 18, 4741–4759.
2. Tang, Tingting; Teng, Zhidong; Li, Zhiming. Threshold behavior in a class of stochastic SIRS epidemic models with nonlinear incidence. *Stoch. Anal. Appl.* 33 (2015), no. 6, 994–1019.
3. Tang, Qian; Teng, Zhidong; Jiang, Haijun. Global behaviors for a class of multi-group SIRS epidemic models with nonlinear incidence rate. *Taiwanese J. Math.* 19 (2015), no. 5, 1509–1532.
4. Li, Hong-Li; Jiang, Yao-Lin; Wang, Zuolei; Zhang, Long; Teng, Zhidong. Global Mittag-Leffler stability of coupled system of fractional-order differential equations on network. *Appl. Math. Comput.* 270 (2015), 269–277.
5. Muhammadhaji, Ahmadjan; Mahemuti, Rouzimaimaiti; Teng, Zhidong. Periodic solutions for n-species Lotka-Volterra competitive systems with pure delays. *Chin. J. Math. (N.Y.)* 2015, Art. ID 856959, 11 pp.
6. Li, Yingke; Teng, Zhidong; Wang, Kai; Muhammadhaji, Ahmadjan. Dynamic analysis of general integrated pest management model with double impulsive control. *Discrete Dyn. Nat. Soc.* 2015, Art. ID 839097, 10 pp.
7. Li, Zhiming; Teng, Zhidong; Feng, Xiaomei; Li, Yingke; Zhang, Huiguo. Dynamical analysis of an SEIT epidemic model with application to Ebola virus transmission in Guinea. *Comput. Math. Methods Med.* 2015, Art. ID 582625, 11 pp.
8. Feng, Xiaomei; Ruan, Shigui; Teng, Zhidong; Wang, Kai. Stability and backward bifurcation in a malaria transmission model with applications to the control of malaria in China. *Math. Biosci.* 266 (2015), 52–64.
9. Abdurahman, Abdujelil; Jiang, Hai Jun; Teng, Zhi Dong. Exponential synchronization

for impulsive Cohen-Grossberg neural networks with mixed time-varying delays. (Chinese) *Acta Math. Sci. Ser. A Chin. Ed.* 35 (2015), no. 3, 545–557.

10. Muhammadhaji, Ahmadjan; Teng, Zhidong; Rehim, Mehbuba. Dynamical behavior for a class of delayed competitive-mutualism systems. *Differ. Equ. Dyn. Syst.* 23 (2015), no. 3, 281–301.
11. Zhang, Tailei; Liu, Junli; Teng, Zhidong. Threshold conditions for a discrete nonautonomous SIRS model. *Math. Methods Appl. Sci.* 38 (2015), no. 9, 1781–1794.
12. Muhammadhaji, Ahmadjan; Teng, Zhidong; Rehim, Mehbuba. On a two species stochastic Lotka-Volterra competition system. *J. Dyn. Control Syst.* 21 (2015), no. 3, 495–511.
13. Abdurahman, Abdujelil; Jiang, Haijun; Hu, Cheng; Teng, Zhidong. Parameter identification based on finite-time synchronization for Cohen-Grossberg neural networks with time-varying delays. *Nonlinear Anal. Model. Control* 20 (2015), no. 3, 348–366.
14. He, Zhi-Long; Nie, Lin-Fei; Teng, Zhi-Dong. Dynamics analysis of a two-species competitive model with state-dependent impulsive effects. *J. Franklin Inst.* 352 (2015), no. 5, 2090–2112.
15. Feng, Xiaomei; Teng, Zhidong; Zhang, Fengqin. Global dynamics of a general class of multi-group epidemic models with latency and relapse. *Math. Biosci. Eng.* 12 (2015), no. 1, 99–115.
16. Nie, Lin-Fei; Teng, Zhi-Dong; Nieto, Juan J.; Jung, Il. Hyo State impulsive control strategies for a two-languages competitive model with bilingualism and interlinguistic similarity. *Phys. A* 430 (2015), 136–147.

2014年度

1. Hu, Zengyun; Teng, Zhidong; Jia, Chaojun; Zhang, Chi; Zhang, Long. Dynamical analysis and chaos control of a discrete SIS epidemic model. *Adv. Difference Equ.* 2014, 2014:58, 20 pp.
2. Hu, Zengyun; Teng, Zhidong; Jia, Chaojun; Zhang, Long; Chen, Xi. Complex dynamical behaviors in a discrete eco-epidemiological model with disease in prey. *Adv. Difference Equ.* 2014, 2014:265, 19 pp.
3. Mahemuti, Rouzimaimaiti; Muhammadhaji, Ahmadjan; Teng, Zhidong. Dynamics in a

- periodic two-species predator-prey system with pure delays. *Math. Sci. (Springer)* 8 (2014), no. 3, 71–77.
4. Hu, Zeng Yun; Teng, Zhi Dong Permanence and extinction analysis of a discrete-time SIRS epidemic model. (Chinese) *Acta Math. Appl. Sin.* 37 (2014), no. 3, 547–556.
 5. Muhammadhaji, Ahmadjan; Teng, Zhidong; Abdurahman, Xamxinur Permanence and extinction analysis for a delayed ratio-dependent cooperative system with stage structure. *Afr. Mat.* 25 (2014), no. 4, 897–909.
 6. Abdurahman, Abdujelil; Jiang, Haijun; Teng, Zhidong Function projective synchronization of impulsive neural networks with mixed time-varying delays. *Nonlinear Dynam.* 78 (2014), no. 4, 2627–2638.
 7. Abdurahman, Xamxinur; Zhang, Ling; Teng, Zhidong Global dynamics of a discretized heroin epidemic model with time delay. *Abstr. Appl. Anal.* 2014, Art. ID 742385, 10 pp.
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