南开大学2024年陈省身学术新人奖学金

“高水平科研论文奖励计划”拟获奖名单公示

根据《南开大学感念大师系列奖项陈省身奖学金评审办法》要求，陈省身奖学金评审委员会按照客观、公平、公正的原则，对各单位报送的奖学金评审材料进行了认真评审，确定拟获奖名单，公示如下，接受师生监督：

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| **序号** | **论文题目** | **论文发表期刊** | **获奖作者** | **作者单位** |
| 1 | The Amalgamation property and urysohn structures in continuous logic | The Journal of Symbolic Logic | 任炫智 | 数学科学学院 |
| 2 | trRosettaRNA: automated prediction of RNA 3D structure with transformer network | Nature Communications | 王文恺 | 数学科学学院 |
| 3 | Zero-error distributed compression of binary arithmetic sum | IEEE Transactions on Information Theory | 张儒泽 | 数学科学学院 |
| 4 | scButterfly: a versatile single-cell cross-modality translation method via dual-aligned variational autoencoders | Nature Communications | 曹一川 | 数学科学学院 |
| 5 | Complements of Schubert polynomials | Advances in Applied Mathematics | 刘屹 | 组合数学中心 |
| 6 | Winding Number, Density of States, and Acceleration | International Mathematics Research Notices | 王振富 | 陈省身数学研究所 |
| 7 | Stability of Spectral Types of Quasi-periodic Schrödinger Operators with Respect to Perturbations by Decaying Potentials | Communications in Mathematical Physics | 李先哲 | 陈省身数学研究所 |
| 8 | Sharp anisotropic singular Trudinger–Moser inequalities in the entire space | Calculus of Variations and Partial Differential Equations | 郭凯文 | 陈省身数学研究所 |
| 9 | New Lower Bounds for the Minimum Distance of Cyclic Codes and Applications to Locally Repairable Codes | IEEE Transactions on Information Theory  | 邱靖 | 陈省身数学研究所 |
| 10 | Bent Partitions, Vectorial Dual-Bent Functions and Partial Difference Sets | IEEE Transactions on Information Theory | 王佳鑫 | 陈省身数学研究所 |
| 11 | Optimal Subsampling via Predictive Inference | Journal of the American Statistical Association | 吴骁洋 | 统计与数据科学学院 |
| 12 | Selective conformal inference with false coverage-statement rate control | Biometrika | 霍雨阳 | 统计与数据科学学院 |
| 13 | Robust high-dimensional low-rank matrix estimation: optimal rate and data-adaptive tuning | Journal of Machine Learning Research | 崔小龙 | 统计与数据科学学院 |
| 14 | scPROTEIN: a versatile deep graph contrastive learning framework for single-cell proteomics embedding | Nature Methods | 李威 | 人工智能学院 |
| 15 | Geometric Maneuvering for Underactuated VTOL Vehicles | IEEE Transactions on Automatic Control (Regular Paper) | 吴世珍 | 人工智能学院 |
| 16 | High Precision ≠ High Cost: Temporal Data Fusion for Multiple Low-Precision Sensors | ACM SIGMOD International Conference on Management of Data (SIGMOD) | 朱璟钰 | 计算机学院 |
| 17 | Prism: Decomposing Program Semantics for Code Clone Detection through Compilation | International Conference on Software Engineering(ICSE) | 李浩然 | 计算机学院 |
| 18 | AB-PAKE: Achieving Fine-Grained Access Control and Flexible Authentication | IEEE Transactions on Information Forensics and Security（IEEE TIFS） | 宋蜜 | 网络空间安全学院 |
| 19 | Hybrid-Memcached: A Novel Approach for Memcached Persistence Optimization with Hybrid Memory. | IEEE Transactions on Computers(TC) | 蒋璋 | 计算机学院 |
| 20 | FedPE: Adaptive Model Pruning-Expanding for Federated Learning on Mobile Devices | IEEE Transactions on Mobile Computing (TMC) | 衣丽萍 | 计算机学院 |
| 21 | Practical and Secure Password Authentication and Key Agreement Scheme Based Dual-Server for IoT Devices in 5G Network | IEEE Internet of Things Journal | 张松松 | 软件学院 |
| 22 | Flexible job shop scheduling with stochastic machine breakdowns by an improved tuna swarm optimization algorithm | Journal of Manufacturing Systems | 樊成帅 | 软件学院 |
| 23 | 玲珑：一个小规模的高质量中文预训练语言模型 | 计算机研究与发展 | 李东闻 | 软件学院 |
| 24 | Diagnosing Performance Issues for Large-Scale Microservice Systems With Heterogeneous Graph | IEEE Transactions on Services Computing | 陶磊 | 软件学院 |
| 25 | LogKG: Log Failure Diagnosis Through Knowledge Graph | IEEE Transactions on Services Computing | 隋轶丞 | 软件学院 |

公示期：2024年6月24日—2024年6月26日。

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陈省身奖学金评审委员会

2024年6月24日