《ChatGPT 时代的科技论文检索与写作》课程报告

南京理工大学

班级（班号）   922114514101

姓 名   张三

学 号   922114514101

学 院   X 学院

南京理工大学

2024 年 5 月 18 日

南京理工大学

张三 (922114514101)

X 学院 XX 专业

［摘 要］南京理工大学是隶属于工业和信息化部的全国重点大学，学校由创建于 1953 年的新中国军工科技最高学府中国人民解放军军事工程学院（简称"哈军工"）分建而成，经历了中国人民解放军炮兵工程学院、华东工程学院、华东工学院等发展阶段，1993 年更名为南京理工大学。1995 年，学校成为国家首批"211 工程"重点建设高校；2000 年，获批成立研究生院；2011 年，获批建设"985 工程优势学科创新平台"；2017 年，学校入选"双一流"建设高校，"兵器科学与技术"学科入选"双一流"建设学科；2018 年，王泽山院士获得国家最高科学技术奖，同年，学校成为工信部、教育部、江苏省共建高校。进入新时代、开启新征程，学校坚持"以人为本，厚德博学"的办学理念，秉持"进德修业，志道鼎新"的校训，弘扬"团结、献身、求是、创新"的校风，以服务国家战略需求、推动社会进步为使命，为党育英才、为国铸利器，围绕陆海空天信融合发展，向特色鲜明世界一流大学的目标奋勇前进。

［关键词］南京理工大学 南理工 华东工程学院 中国人民解放军炮兵工程学院 中国人民解放军军事工程学院

Nanjing University of Science and Technology

Abstract—Nanjing University of Science and Technology is a national key university affiliated to the Ministry of Industry and Information Technology. The school was established in 1953 by the Chinese People's Liberation Army Military Engineering College (referred to as "Harbin Military Industry"), the highest institution of military science and technology in New China. It has experienced China's It was in the development stage of the People's Liberation Army Artillery Engineering College, East China Institute of Engineering, and East China Institute of Technology. In 1993, it was renamed Nanjing University of Science and Technology. In 1995, the school became one of the first batch of national "211 Project" key universities; in 2000, it was approved to establish a graduate school; in 2011, it was approved to build the "985 Project Advantageous Discipline Innovation Platform"; in 2017, the school was selected for the "Double First-Class" construction At the university, the "Weapons Science and Technology" discipline was selected as a "Double First-Class" construction discipline; in 2018, Academician Wang Zeshan won the country's highest science and technology award. In the same year, the school became a university jointly built by the Ministry of Industry and Information Technology, the Ministry of Education, and Jiangsu

Province. Entering a new era and embarking on a new journey, the school adheres to the school-running philosophy of "people-oriented, virtuous and knowledgeable", upholds the school motto of "advancing morals, cultivating talents, and pursuing innovation", and promotes the school spirit of "unity, dedication, truth-seeking, and innovation" to serve the country It takes strategic needs and promotes social progress as its mission, educates talents for the party and forges weapons for the country, focuses on the integrated development of land, sea, air, space and information, and marches forward bravely towards the goal of becoming a world-class university with distinctive characteristics.

Index Terms—NJUST; Nanjing; University; 985; 211

1　引言

1. 南京理工大学(图 1)

   - 南京校区
   - 江阴校区
   - 汤山校区
   - 盱眙校区

2. 南京航空航天大学

3. `mono font`

图 1　你说的对, 但**南京理工大学**是一所......

行内公式: $Q = \rho A v + C$

$$f(x,y) := \begin{cases} 1 \text{ if } \frac{x \cdot y}{2} \leq 0 \\ 2 \text{ if } x \text{ is even} \\ 3 \text{ if } x \in \mathbb{N} \\ 4 \text{ else} \end{cases}$$

$$\begin{pmatrix} 1 & 2 & \dots & 10 \\ 2 & 2 & \dots & 10 \\ \vdots & \vdots & \ddots & \vdots \\ 10 & 10 & \dots & 10 \end{pmatrix}$$

加粗, 代码

```
\begin{itemize}
  \item Fast
\end{itemize}
```

术语表:

Term　1

Term　2

8
斜体下划线

Hi 0. Hi 1. Hi 2.

1.1　更多

I have 5 fingers.

If I had one more, I'd have 6 fingers.

Whoa!

1.2　表格

1	2	3	4	5
2	4	6	8	10
3	6	9	12	15
4	8	12	16	20

5	10	15	20	25
6	12	18	24	30
7	14	21	28	35
8	16	24	32	40
9	18	27	36	45

2 背景

学校学科门类齐全，办学特色鲜明。现有机械工程学院、化学与化工学院、电子工程与光电技术学院、计算机科学与工程学院（人工智能学院）、经济管理学院、能源与动力工程学院、自动化学院、物理学院、外国语学院、公共事务学院、马克思主义学院、材料科学与工程学院/格莱特研究院、环境与生物工程学院、设计艺术与传媒学院、知识产权学院、网络空间安全学院、智能制造学院、新能源学院、数学与统计学院、微电子学院（集成电路学院）、安全科学与工程学院（应急管理学院）等 21 个专业学院，以及钱学森学院、中法工程师学院、国际教育学院、创新创业教育学院、继续教育学院，并与合作方联合创办了南京理工大学紫金学院和南京理工大学泰州科技学院 2 个独立学院。学校在长期发展过程中形成了兵器与装备、信息与控制、化工与材料三大优势学科群，工程学、材料科学、化学、计算机科学、环境与生态学、物理学、数学、

一般社会科学、生物与生物化学、地球科学 10 个学科进入 ESI 国际学科领域全球排名前 1%，其中，工程学、材料科学、化学进入前 1‰。现有国家重点学科 9 个，江苏省优势学科 10 个，江苏省重点学科 12 个，工信部重点学科 7 个，国防特色学科 10 个；国家级一流本科专业建设点 38 个，教育部卓越工程师教育培养计划试点专业 13 个；国家级一流本科课程 46 门，教育部课程思政示范课程 3 门；博士后流动站 19 个；一级学科博士学位授权点 20 个，一级学科硕士学位授权点 35 个；具有博士专业学位授权类别 3 个，硕士专业学位授权类别 19 个；具有高级管理人员工商管理硕士（EMBA）授予权；具有在职人员以同等学力申请博士、硕士学位的授予权以及外国留学生和港澳台学生的招生权。学校现有各类全日制在校生 30000 余名，留学生 1000 余名。

学校师资力量雄厚，领军人才集聚。具有教授任职资格评审权和博士生指导教师资格审批权。现有教职工 3600 余人，专任教师 2400 余人，其中具有高级职称 1600 余人。高层次人才 700 余人，包括：两院院士 27 人，外国院士 4 人，国家级领军人才 67 人，国家级青年人才 126 人，"国家级教学名师奖"3 人，国家级"万人计

划"教学名师 5 人，首届全国教材建设奖先进个人 1 人，"全国创新争先奖"获得者 7 人，"国家百千万人才工程"人选 14 人，国家级、省部级有突出贡献中青年专家 26 人等。拥有全国高校黄大年式教师团队 3 个、国家级教学团队 5 个、教育部创新团队 5 个、教育部虚拟教研室建设试点 2 个、工信部研究型教学创新团队 3 个、国防科技创新团队 11 个、江苏省创新团队 39 个。学校先后入选江苏省高层次人才创新创业基地、国家创新人才培养示范基地和首批江苏省课程思政示范高校。

2.1 方式

学校人才培养水平突出，育人成果丰硕。始终坚持人才培养的中心地位，围绕"工程精英、社会中坚"的人才培养定位，立足信息化社会对人才的知识、能力、素质等新要求，培养德才兼备、求真务实、具有家国情怀和国际竞争力、能引领未来的创新型精英人才。办学 70 余年以来，累计为国家培养输送了 19 万余名各类高级专门人才，其中 16 人当选两院院士。"十三五"以来，获得国家级教学成果奖 8 项，中国学位与研究生教育学会研究生教育成果奖一等奖 1 项，省部级教学成果奖 33 项。学校创新创业教育工作成效显著，

获批国家双创示范基地、首批"国家级创新创业学院"，是首批"全国创新创业典型经验高校""全国深化创新创业教育改革示范高校"，同时也是"中美青年创客交流中心"和"全国高校实践育人创新创业基地"落户高校；在各类重大赛事中屡获佳绩，其中，在第十四届"挑战杯"全国大学生课外学术科技作品竞赛中，学校以总分第一的成绩捧得"挑战杯"；在第八届中国国际"互联网+"大学生创新创业大赛中斩获总冠军，成为全国同时获得"挑战杯"和"互联网+"总冠军的三所高校之一。

学校科技优势突出，标志性成果不断涌现。主动对接服务国家重大战略，持续推进陆海空天信融合发展，为国防自主创新和经济社会发展提供强有力支撑。现有国家级重点实验室 3 个，前沿科学中心 1 个，国家级技术创新中心 1 个，国家级工程技术研究中心 1 个，国家地方联合工程实验室 1 个，省部共建协同创新中心 1 个，国家标准创新基地 1 个，国家级技术研究推广中心 1 个，国家级技术研究开发中心 1 个，国家级检测中心 2 个，省部级科研平台（哲社基地）75 个，建有国家大学科技园，并以此为依托承担了一大批国家重大科研任务，产出了一批重大原创性成果。发明了世界领先的全等式模块装

药技术，作为总师单位研制的某型车载炮武器系统亮相国庆 70 周年阅兵式并列装部队；首创复杂装备系统动力学快速计算方法，建立多体系统发射动力学理论与技术体系；合成了全球首个氮五阴离子盐，成果在《Science》《Nature》发表，引领国际新型高能含能材料发展；发明高温 PST 钛铝单晶，攻克钛铝合金室温脆性大和服役温度低两大国际性难题，推动我国航空发动机核心技术发展；研制出国内首个固态图像增强器件和红外图像信号处理专用芯片。"十三五"以来，获得省部级及以上科技奖励 271 项，其中国家科学技术奖 17 项，实现国家科学技术奖五大奖种全覆盖。学校大力推进产学研合作，推动重大科技成果的转化应用，被认定为首批高等学校科技成果转化和技术转移基地、首批国家知识产权示范高校，在高端装备、新一代信息技术、新材料等新兴产业领域创造了显著的经济效益和社会效益。

参考文献

[1] M. Dagenais, S. Boucher, B.-N. Research, R. Gérin-Lajoie, P. Laplante, and P. Mailhot, "LUDE: A Distributed Software Library," 1993.

[2] G. D. Greenwade, "The Comprehensive TEXArchve Network (CTAN)," vol. 14, no. 3, 1993.

[3] E. Dolstra, M. de Jonge, and E. Visser, "Nix: A Safe and Policy-Free System for Software Deployment," 2004.

[4] M. Serrano and E. Gallesio, "An adaptive package management system for scheme," in *Proceedings of the 2007 symposium on Dynamic languages*, in DLS '07. New York, NY, USA: Association for Computing Machinery, Oct. 2007, pp. 65–76. doi: 10.1145/1297081.1297093.

[5] C. Tucker, D. Shuffelton, R. Jhala, and S. Lerner, "OPIUM: Optimal Package Install/ Uninstall Manager," in *Proceedings of the 29th international conference on Software Engineering*, in ICSE '07. USA: IEEE Computer Society, May 2007, pp. 178–188. doi: 10.1109/ICSE.2007.59.

[6] E. Dolstra and A. Löh, "NixOS: a purely functional Linux distribution," in *Proceedings of the 13th ACM SIGPLAN international conference on Functional programming*, in ICFP '08. New York, NY, USA: Association for Computing Machinery, Sep. 2008, pp. 367–378. doi: 10.1145/1411204.1411255.

[7] K. Hornik, "The Comprehensive R Archive Network," *WIREs Computational Statistics*, vol. 4, no. 4, pp. 394–398, 2012, doi: 10.1002/wics.1212.

[8] J. Cappos, J. Samuel, S. Baker, and J. H. Hartman, "A look in the mirror: attacks on package managers," in *Proceedings of the 15th ACM conference on Computer and communications security*, in CCS '08. New York, NY, USA: Association for Computing Machinery, Oct. 2008, pp. 565–574. doi: 10.1145/1455770.1455841.

[9] F. Mancinelli *et al.*, "Managing the Complexity of Large Free and Open Source Package-Based Software Distributions," in *21st IEEE/ACM International Conference on Automated Software Engineering (ASE'06)*, Tokyo: IEEE, Sep. 2006, pp. 199–208. doi: 10.1109/ASE.2006.49.

[10] R. Di Cosmo, S. Zacchiroli, and P. Trezentos, "Package upgrades in FOSS distributions: details and challenges," in *Proceedings of the 1st International Workshop on Hot Topics in Software Upgrades*, Oct. 2008, pp. 1–5. doi: 10.1145/1490283.1490292.

[11] F. Dagnat, G. Simon, and X. Zhang, "Toward Decentralized Package Management."

[12] P. Abate, R. Di Cosmo, R. Treinen, and S. Zacchiroli, "A modular package manager architecture," *Information and Software Technology*, vol. 55, no. 2, pp. 459–474, Feb. 2013, doi: 10.1016/j.infsof.2012.09.002.

[13] J. Vouillon and R. D. Cosmo, "On software component co-installability," *ACM Transactions on Software Engineering and Methodology*, vol. 22, no. 4, pp. 1–35, Oct. 2013, doi: 10.1145/2522920.2522927.

[14] A. Ignatiev, M. Janota, and J. Marques-Silva, "Towards efficient optimization in package management systems," in *Proceedings of the 36th International Conference on Software Engineering*, in ICSE 2014. New York, NY, USA: Association for Computing Machinery, May 2014, pp. 745–755. doi: 10.1145/2568225.2568306.

[15] G. D'mello, "Automatic Software Dependency Management using Blockchain."

[16] M. Al-Bassam and S. Meiklejohn, "Contour: A Practical System for Binary Transparency," *Data Privacy Management, Cryptocurrencies and Blockchain Technology*, vol. 11025. Springer International Publishing, Cham, pp. 94–110, 2018. doi: 10.1007/978-3-030-00305-0_8.

[17] J. Díaz, J. Pérez, J. Garbajosa, and A. L. Wolf, "Change Impact Analysis in Product-Line Architectures," in *Software Architecture*, I. Crnkovic, V. Gruhn, and M. Book, Eds., Berlin, Heidelberg: Springer, 2011, pp. 114–129. doi: 10.1007/978-3-642-23798-0_12.

[18] A. Decan, T. Mens, and M. Claes, "On the topology of package dependency networks: a comparison of three programming language ecosystems," in *Proccedings of the 10th European Conference on Software Architecture Workshops*, in ECSAW '16. New York, NY, USA: Association for Computing

Machinery, Nov. 2016, pp. 1–4. doi: 10.1145/2993412.3003382.

[19] J. Dietrich, D. Pearce, J. Stringer, A. Tahir, and K. Blincoe, "Dependency Versioning in the Wild," in *2019 IEEE/ACM 16th International Conference on Mining Software Repositories (MSR)*, Montreal, QC, Canada: IEEE, May 2019, pp. 349–359. doi: 10.1109/ MSR.2019.00061.

[20] A. Decan and T. Mens, "What Do Package Dependencies Tell Us About Semantic Versioning?," *IEEE Transactions on Software Engineering*, vol. 47, no. 6, pp. 1226–1240, Jun. 2021, doi: 10.1109/TSE.2019.2918315.

[21] R. Kikas, G. Gousios, M. Dumas, and D. Pfahl, "Structure and Evolution of Package Dependency Networks," in *2017 IEEE/ACM 14th International Conference on Mining Software Repositories (MSR)*, May 2017, pp. 102–112. doi: 10.1109/MSR.2017.55.

[22] C. Artho, K. Suzaki, R. d. Cosmo, R. Treinen, and S. Zacchiroli, "Why Do Software Packages Conflict?," presented at the 9th Working Conf. on Mining Software Repositories (MSR 2012), 2012, pp. 141–150. Accessed: May 14, 2024. [Online]. Available: https://urn.kb.se/resolve?urn=urn: nbn:se:kth:diva-199130

[23] A. Foundjem, "Release synchronization in software ecosystems," in *Proceedings of the 41st International Conference on Software Engineering: Companion Proceedings*, in ICSE '19. Montreal, Quebec, Canada: IEEE Press, May 2019, pp. 135–137. doi: 10.1109/ ICSE-Companion.2019.00058.

[24] A. Miranda and J. Pimentel, "On the use of package managers by the C++ open-source community," in *Proceedings of the 33rd Annual ACM Symposium on Applied Computing*, Pau France: ACM, Apr. 2018, pp. 1483–1491. doi: 10.1145/3167132.3167290.

[25] K. Thompson, "Reflections on Trusting Trust."

[26] E. Androulaki *et al.*, "Hyperledger fabric: a distributed operating system for permissioned blockchains," in *Proceedings of the Thirteenth EuroSys Conference*, in EuroSys '18. New York, NY, USA: Association for Computing Machinery, Apr. 2018, pp. 1–15. doi: 10.1145/3190508.3190538.

[27] H. Muhammad, L. C. V. Real, and M. Homer, "Taxonomy of Package Management in Programming Languages and Operating Systems," in *Proceedings of the 10th Workshop on Programming Languages and Operating Systems*, in PLOS '19. New York, NY, USA: Association for Computing Machinery, Oct. 2019, pp. 60–66. doi: 10.1145/3365137.3365402.

[28] R. Bloemen, C. Amrit, S. Kuhlmann, and G. Ordóñez–Matamoros, "Gentoo package dependencies over time," in *Proceedings of the 11th Working Conference on Mining Software Repositories*, in MSR 2014. New

York, NY, USA: Association for Computing Machinery, May 2014, pp. 404–407. doi: 10.1145/2597073.2597131.

[29] M. Golzadeh, "Analysing socio-technical congruence in the package dependency network of Cargo," in *Proceedings of the 2019 27th ACM Joint Meeting on European Software Engineering Conference and Symposium on the Foundations of Software Engineering*, in ESEC/FSE 2019. New York, NY, USA: Association for Computing Machinery, Aug. 2019, pp. 1226–1228. doi: 10.1145/3338906.3342497.

[30] W. Cheng, W. Hu, and X. Ma, "Revisiting Knowledge-Based Inference of Python Runtime Environments: A Realistic and Adaptive Approach," *IEEE Transactions on Software Engineering*, vol. 50, no. 2, pp. 258–279, Feb. 2024, doi: 10.1109/ TSE.2023.3346474.

[31] G. Ferreira, L. Jia, J. Sunshine, and C. Kästner, "Containing Malicious Package Updates in npm with a Lightweight Permission System," in *Proceedings of the 43rd International Conference on Software Engineering*, in ICSE '21. Madrid, Spain: IEEE Press, Nov. 2021, pp. 1334–1346. doi: 10.1109/ICSE43902.2021.00121.

[32] S. G. Hegde and G. Ranjani, "Package Management System in Linux," in *2021 Asian Conference on Innovation in Technology (ASIANCON)*, Aug. 2021, pp. 1– 6. doi: 10.1109/ ASIANCON51346.2021.9544805.

[33] S. Mongkolluksame, C. Issariyapat, P. Pongpaibool, K. Meesublak, N. Nulong, and S. Pukkawanna, "A management system for software package distribution," in *2012 Proceedings of PICMET '12: Technology Management for Emerging Technologies*, Jul. 2012, pp. 3529–3536. Accessed: May 14, 2024. [Online]. Available: https://ieeexplore. ieee.org/document/6304372/references# references

[34] P. Abate, "Dependency solving: A separate concern in component evolution management," 2012.