

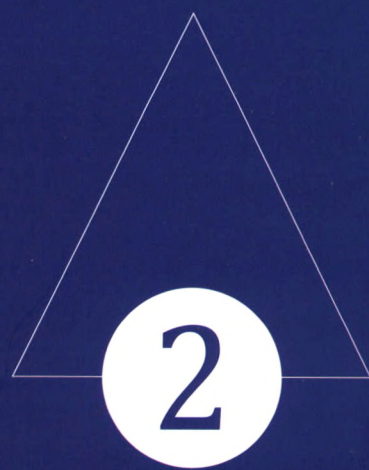


ISSN 1000-0763 CN 11-1518/N

# 自然辩证法通讯

## JOURNAL OF DIALECTICS OF NATURE

关于科学和技术的哲学、历史学、社会学和文化研究的综合性、理论性杂志  
A Comprehensive, Academic Journal of the Philosophy, History, Sociology and Cultural Studies of Science and Technology



2021

袁伟 等

专题：人工智能与当代社会

程志翔

内禀政治性技术：对温纳旧概念的新释

王挺

传统工艺历史缘起的塑造现象探微

沈费伟

技术嵌入与制度吸纳：提高政府技术治理绩效的运作逻辑

陈嘉明 等

意向性行为中的非观察性知识

王鹏 等

牛顿：科学巨匠为何载誉子立

2021年2月 第43卷 第2期（总第270期）

中国科学院自然辩证法通讯杂志社

专题：人工智能与当代社会

人工智能：统治人类还是服务人类？

——基于历史唯物主义的思考·····袁伟(1)

人工智能心理学研究的知识图谱分析·····刘鸿宇 彭拾 王珏(10)

参差赋权：人工智能技术赋权的基本形态、

潜在风险与应对策略·····王磊(20)

科学技术哲学

伦理推理：一种中国古代归纳推理

——以儒、墨两家为例·····黄闪闪 任晓明(32)

内禀政治性技术：对温纳旧概念的新释·····程志翔(39)

认真对待“现象”

——意识科学中的“纯粹经验”及其哲学意义·····颜鸿(46)

论因果传递性原则·····何朝安(53)

科学技术史

唐宋时代制墨技术的传承与革新·····陈涛(58)

高平开化寺“立机子”图像探微·····伊宝 高策 史宏蕾(64)

传统工艺历史缘起的塑造现象探微

——以芜湖铁画锻制技艺为例·····王挺(73)

科学技术与社会

技术嵌入与制度吸纳：提高政府技术治理绩效的运作逻辑·····沈费伟(80)

论科技伦理评估的理论基础及评估标准·····王少(87)

物化关系遮蔽下的军事实验

——作战模拟技术的合理性基础·····吴奕澎 刘轶丹(93)

科学技术文化研究

意向性行为中的非观察性知识·····陈嘉明 廖景漩(100)

人造生命的出场路径探析

——存在论的视角·····刘海龙(108)

科学文化的内涵与结构探析·····张一鸣 张增一(114)

人物评传

牛顿：科学巨匠为何茕茕孑立·····王鹏 袁熙庆 丁雪(122)

学术信息

《自然辩证法通讯》2021年稿约·····封三

### Symposium: Artificial Intelligence and Contemporary Society

- Is Artificial Intelligence to Rule or Serve Human Beings?  
Some Reflections Based on Historical Materialism.....YUAN Wei (1)
- An Analysis and Visualization of Artificial Intelligence Psychology  
Using Knowledge Map.....LIU Hongyu, PENG Shi, WANG Jue (10)
- Cenci-empowerment: The Morphological Structure and  
the Risk Defense of Artificial Intelligence.....WANG Lei (20)

### Philosophy of Science and Technology

- The Characters of the Ethical Reasoning in Ancient China:  
Take Confucianism and Mohism as Examples.....HUANG Shanshan, REN Xiaoming (32)
- Inherently Political Technologies:  
Two New Interpretations of Langdon Winner's Old Concept.....CHENG Zhixiang (39)
- Taking "Phenomenon" Seriously: "Pure Experience" in Consciousness Science  
and Its Philosophical Significance.....YAN Hong (46)
- On the Principle of Causal Transitivity.....HE Chaoan (53)

### History of Science and Technology

- Inheritance and Innovation of Technology on Manufacturing of  
Inkstick in Tang and Song Dynasties.....CHEN Tao (58)
- The Vertical Weaving Machine Image in  
the Murals of Kaihua Temple, Gaoping.....YI Bao, GAO Ce, SHI Honglei (64)
- An Exploration of the Phenomenon of Shaping the Historical Origin of Traditional Crafts:  
A Case Study of Wuhu Iron Painting.....WANG Ting (73)

### Science, Technology and Society

- Technology Embedding and System Absorption: The Operational Logic to Improve the  
Performance of Government Technology Governance.....SHEN Feiwei (80)
- On the Theoretical Basis and Criteria of Science & Technology Ethical Assessment.....WANG Shao (87)
- Military Experiments Covered by Reification:  
Combat Subjects' Reification and Rationality Basis of War Gaming.....WU Yipeng, LIU Yidan (93)

### Cultural Studies of Science and Technology

- Non-observational Knowledge in Intentional Action.....CHEN Jiaming, LIAO Jingxuan (100)
- The Appearance Path of Artificial Life: From the Perspective of Ontology.....LIU Hailong (108)
- Scientific Culture / Culture of Science / Science Culture /  
Science as Culture: The Meanings and the Structure.....ZHANG Yiming, ZHANG Zengyi (114)

### Scientific Biography

- Newton: Why the Scientific Giant is Alone.....WANG Peng, YUAN Xiqing, DING Xue (122)

---

**Editor-in-Chief:** HU Zhiqiang    **Deputy Editor-in-Chief:** WANG Daming    **Executive Editor:** LI Bin, KE Zunke  
**Editor:** MENG Jianwei, WANG Wei, SUN Yongping, HONG Wei, TAN Xiao  
**English Editor:** WAN Zhaoyuan, LI Hongfang    **Proofreader:** WANG Huimin, HAO Xiuchen

**自然辩证法通讯** (月刊)  
**JOURNAL OF DIALECTICS OF NATURE** (Monthly)

第43卷第2期 (总第270期)

Vol. 43, No.2 (Serial No.270)

主 管: 中国科学院  
主 办: 中国科学院大学  
编辑出版: 中国科学院自然辩证法通讯杂志社  
主 编: 胡志强  
地 址: 北京玉泉路19号甲中国科学院大学  
(北京4588信箱, 邮政编码 100049)  
电 话: 010-88256007  
电子邮箱: jdn@ucas.ac.cn  
网 址: <http://jdn.ucas.ac.cn>  
国外发行: 中国国际图书贸易总公司  
(北京399信箱)  
印 刷: 北京朝阳印刷厂有限责任公司  
国内发行: 北京报刊发行局  
订 购 处: 全国各地邮局  
出版日期: 2021年2月10日出版

**Administrator:** Chinese Academy of Sciences  
**Sponsor:** University of Chinese Academy of Sciences  
**Editor and Publisher:** the Association for the Journal of Dialectics of Nature, Chinese Academy of Sciences  
**Editor-in-Chief:** HU Zhiqiang  
**Address:** No.19A Yuquan Road, Beijing 100049, China  
**Telephone/Fax:** +86-10-88256007  
**Email:** [jdn@ucas.ac.cn](mailto:jdn@ucas.ac.cn)  
**Website:** <http://jdn.ucas.ac.cn/en>  
**Overseas Distributor:** China International Book Trading Corporation  
(P. O. Box 399, Beijing, P. R. China)  
**Publishing Date:** February 10, 2021

邮发代号: 2-281  
国外代号: BM102

ISSN 1000-0763  
CN 11-1518/N



国家一级学术期刊 哲学类核心期刊  
北京大学中文核心期刊  
《中文社会科学引文索引》(CSSCI) 来源期刊  
定价: 20.00 元