

REFERENCES

- Kamaruzaman, M. F., Hamid, R., Mutalib, S. A., & Rasul, M. S. (2019). Conceptual framework for the development of 4IR skills for engineering graduates. *Global Journal of Engineering Education*, 21(1), 54–61.
- Borkar, M. S., & Singh, A. (2019). Virtualization Technology in Education for Industry 4.0. *International Journal of Recent Technology and Engineering*, 8(3S), 103–107.
<https://www.ijrte.org/wp-content/uploads/papers/v8i3S/C10101083S19.pdf>
- Gaspar, Alessio & Langevin-Gaspar, Sarah & Armitage, William & Rideout, Matthew. (2008). Enabling new pedagogies in operating systems and networking courses with state of the art open source kernel and virtualization technologies. *Journal of Computing Sciences in Colleges*. 23. 189-198.
- Mishra, V., Aleem, S., & Ahmad, S. (2023). A Survey of Linux Operating System as an Alternative to Other Operating Systems. *International Journal of Scientific Research in Network Security and Communication*, 11(6), 9-14
<https://doi.org/10.1016/j.csite.2024.104660>
- Z. Wang, X. Wang and B. Ren, "A Novel Android Software for Comprehensive Ability Testing Based on HCI and Data Interaction Algorithm," 2024 3rd International Conference on Sentiment Analysis and Deep Learning (ICSADL), Bhimdatta, Nepal, 2024, pp. 501-506, doi: 10.1109/ICSADL61749.2024.00087.
keywords: {Operating systems;Linux;Software algorithms;Public key;Stability analysis;Encryption;Middleware;Android Software;HCI;Data Interaction Algorithm;Comprehensive Ability Testing},
<https://doi.org/10.1109/ICSADL61749.2024.00087>
- Frasão, A., Heinrich, T., Fulber-Garcia, V., Will, N. C., Obelheiro, R. R., & Maziero, C. A. (2024). I See Syscalls by the Seashore: An Anomaly-based IDS for Containers Leveraging Sysdig Data. *International Symposium on Computers*

and Communications (ISCC).
<https://www.inf.ufpr.br/vfgarcia/files/ISCC-2024.pdf>

Ge, G., Tian, P., Yang, M., & Yang, Z. (2024). Linux Programming Curriculum Reform in the Era of Open Source Hardware and Software. *Frontiers in Educational Research*, 7(8), 8-15.
<https://www.francispress.com/uploads/papers/HaWl7ynTxhQKw77NK6GasV1TCJJN7YsoMX45UQH3.pdf>

Wu, P. (2023). Blended Teaching Practice of Linux C Programming for the Cultivation of Practice and Innovation Ability of New Engineering. *Advances in Education, Humanities and Social Science Research*, 5, 510-514. ICEACE 2023.

Wasson, D., & Decker, L. (2022). Open-source software – Security concerns in a corporate environment. Davenport University. Retrieved from https://www.davenport.edu/sites/default/files/2022-09/Open-source_software_%E2%80%93_Security_concerns_in_a_corporate_environment-DewayneWasson.pdf

Hitchcock, K. (2022). *Linux System Administration for the 2020s*. Apress, Springer. Available at: Springer Link.

Sathya, K., & Chithra, P. L. (2022). Blockchain-based Circular-Secure Encryption. In *Enterprise Digital Transformation* (pp. x–y). Taylor & Francis. Available at: Taylor & Francis Online. <https://doi.org/10.1201/9781003119784-6>

Pacheco-Velazquez E, Rodes-Paragarino V and Marquez-Urbe A (2024) Exploring educational simulation platform features for addressing complexity in Industry 4.0: a qualitative analysis of insights from logistics experts

A. M. De Almeida, P. G. Cogo Pochmann, A. D. F. Amaral, A. E. Jansen and E. B. Neves, "The Use of Constructive Simulation Based on COMBATER Software to Enhance the Learning of Brazilian Army Officers at the Tactical Level," 2023 15th IEEE International Conference on Industry Applications

(INDUSCON), São Bernardo do Campo, Brazil, 2023, pp. 1374-1379, doi: 10.1109/INDUSCON58041.2023.10374849.

Shoaib Khanmohammadi, Pouria Ahmadi, Ali Jahangiri, Ali Izadi, Rasikh Tariq, Comparative multi-objective optimization using neural networks for ejector refrigeration systems with LiBr and LiCl working agents, Case Studies in Thermal Engineering, Volume 60, 2024, 104660, ISSN 2214-157X, <https://doi.org/10.1016/j.csite.2024.104660>

Ngubane, Z. (2024). Development of a multi-criteria decision-support tool for improving water quality to assist with engineering infrastructure and catchment management. OpenScholar, Durban University of Technology https://openscholar.dut.ac.za/jspui/bitstream/10321/5498/3/Ngubane_Z_2024.pdf

Uppala, V. K. The Impact of AI on Architecting Cloud Data Platforms: Enhancing Data Processing and Integration. J Artif Intell Mach Learn & Data Sci 2022, 1(1), 1289-1292.

Ihenacho, D. O., Sholademi, D. B., Kehinde, V. A., & Taylor, B. T. INTEGRATING CYBERSECURITY INTELLIGENCE WITH DATA ANALYTICS FOR REAL-TIME DECISION-MAKING IN MANAGEMENT INFORMATION SYSTEMS.

Aslam, E., & Ahmad, N. (2024). IAM and SOX Compliance in Modern Cybersecurity: How AI and Data Pipelines Shape Advanced Network Security Strategies.

Silchenko, V. (2024). APPLICATION AREAS OF ARTIFICIAL INTELLIGENCE AND CUSTOMER SERVICE AUTOMATION TOOLS IN RESTAURANT ENTERPRISES. Наука і техніка сьогодні, (11 (39)).

Stelz, R. (2024). Software-Separation on Embedded Hardware—Implementing a Lightweight Hypervisor. FMS-BERICHT, 37.

Hu, Y., Li, S., Xue, W., Zhao, Y., & Wen, Y. (2024). CarePlus: A general framework for hardware performance counter based malware detection under system resource competition. *Computers & Security*, 143, 103884.

Sedelnikov, I. A., & Koltygin, D. S. (2024). Web application developing methodology for managing robotic complexes. *Vestnik of Astrakhan State Technical University. Series: Management, Computer Sciences and Informatics*, (1), 56-63.

Apokin, E. M., & Khandozhko, V. A. (2024). Software implementation of a hierarchical approach to solving the inverse problem of kinematics of a robot manipulator. *Юго-Западного государственного университета*, 72.

Feng, M., Zhou, J., & Tang, Y. (2024, June). Enhancing Cloud-Native Security Through eBPF Technology. In *2024 IEEE 11th International Conference on Cyber Security and Cloud Computing (CSCloud)* (pp. 165-168). IEEE.

Samoladas, I., Stamelos, I., Angelis, L., & Oikonomou, A. Open Source Software Development Should Strive For Even Greater Code Maintainability A study of almost six million lines of code tracks how freely accessible source code holds up against time and multiple iterations.

Guo, J., Liang, H., & Long, J. (2024). Leveraging file system characteristics for ransomware mitigation in linux operating system environments.

Samoladas, I., Angelis, L., & Stamelos, I. (2021). A comparative study of the Linux kernel development across distributions. *Journal of Systems and Software*, 178, 110970. <https://doi.org/10.1016/j.jss.2021.110970>

Loewen, C. (2019, May 6). Announcing WSL 2. *Windows Command Line Blog*. Retrieved from Microsoft DevBlogs.

Microsoft Learn. (2025, May). Windows Subsystem for Linux documentation. Retrieved from <https://learn.microsoft.com/en-us/windows/wsl/about>

The Verge. (2025, May 19). Microsoft's Windows Subsystem for Linux is now open-source. *The Verge*.