

Yousef K. Sanjalawe

Assistant Professor in Cybersecurity & Cloud Computing

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Employment History

- 2024 –now 📌 **Department of Information Technology**, The University of Jordan (JU), Jordan.
- 2023 –2024 📌 **Chair of Cybersecurity Department**, American University of Madaba (AUM), Jordan.
- 2022 –2024 📌 **Assistant Professor in Cybersecurity**, American University of Madaba (AUM), Jordan.
- 2020 –now 📌 **Field Supervisor for Ph.D. students in Cybersecurity**, Universiti Sains Malaysia (USM), Malaysia.
- 2019 –2024 📌 **Senior Trainer**, Ministry of Communications and Information Technology (MoCIT), Future Skills Initiative, Saudi Arabia.
 - 📌 **Trainer of AI, Deep Learning, Computer Vision, & Business Intelligence**
 - 📌 **Trainer of Ethical Hacking and Penetration Testing Trainer**
 - 📌 **Trainer of DevOps**
 - 📌 **Trainer of ITIL, CLOUD+, CISSP, NETWORK +, SECURITY +**
 - 📌 **Trainer of Software Automation Testing, API Testing**
- 2019 –2022 📌 **Educational Consultant and Administrator of Registration System**, Northern Border University (NBU), Saudi Arabia.
- 2016 –2019 📌 **Chair of Computer Science Department**, Northern Border University (NBU), Saudi Arabia.
- 2014 –2019 📌 **Senior Lecturer**, Northern Border University (NBU), Saudi Arabia.
 - 📌 **Head of Quality Assurance Unit at PY Deanship**, Northern Border University (NBU), Saudi Arabia
 - 📌 **Head of Training and Development Unit at PY Deanship**, Northern Border University (NBU), Saudi Arabia
 - 📌 **Member of the e-learning community council at PY Deanship**, Northern Border University (NBU), Saudi Arabia
 - 📌 **Coordinator of High Impact Education Practices (HIEPs) project**, Northern Border University (NBU), Saudi Arabia
- 2012 –2014 📌 **Teacher Assistant**, Yarmouk University, Jordan
- 2011 –2012 📌 **Customer Service Representative**, Extensya, Jordan

Employment History (continued)


2007 – 2011  **System Administrator**, Al-madina for Financial Services, Jordan

Education

- 2017 – 2020  **Ph.D., Universiti Sains Malaysia (USM)**, National Advanced IPv6 Center of Excellence (NAv6), Malaysia.
Thesis title: *Enhanced Cloud Service Broker Selection Policy Based On Differential Evolution Algorithm*
- 2012 – 2014  **M.Sc. Computer Science, Yarmouk University**, Faculty of Information Technology, Jordan.
Thesis title: *An Efficient Information Retrieval System based on Optimized Crawler.*
- 2003 – 2007  **B.Sc. Computer Science, Jordan University of Science and Technology (JUST)**, Faculty of Information Technology, Jordan.

Research Publications

Patents

- 1 A. Al-Daraiseh, S. Al-E'mari, A. Almomani, Y. Al-sanjalawe, American-University-of-Madaba, and S. Fraihat, "Auf einem chaotischen zufallszahlengenerator basierendes kryptografisches system," LIPPERT STACHOW Patentanwälte Rechtsanwälte Partnerschaft mbB, 46117 Oberhausen, DE, DE File Number: 20 2024 100 458.2, Feb 20, 2024.  URL: <https://register.dpma.de/DPMAreger/pat/register?lang=de&fromSprachWechselLink>.

Journal Articles

- 1 A. Ababneh, Y. Sanjalawe, S. Fraihat, S. Al-E'mari, and H. Alqudah, "Orbit weighting scheme in the context of vector space information retrieval," *Computers, Materials & Continua*, vol. 80, no. 1, 2024.
- 2 N. Almi'ani, M. Anbar, S. Karuppayah, *et al.*, "Feature selection and 1dcnn-based ddos detection in software-defined networking," *Engineering Letters*, vol. 32, no. 7, 2024.
- 3 M. Bany Taha, Y. Sanjalawe, A. Al-Daraiseh, S. Fraihat, and S. Al-E'mari, "Proactive auto-scaling for service function chains in cloud computing based on deep learning," *IEEE Access*, 2024, Web of Science and Scopus Indexed, Q1, IF 3.37.
- 4 A. Al-daraiseh, Y. Sanjalawe, S. Fraihat, and S. Al-Emari, "Novel, fast, strong, and parallel: A colored image cipher based on sbtm cprng," *Symmetry*, 2024, MDPI, Q1, IF 2.7.
- 5 F. A. Zwayed, M. Anbar, S. Manickam, *et al.*, "An efficient intrusion detection systems in fog computing using forward selection and bilstm," *Bulletin of Electrical Engineering and Informatics*, vol. 13, no. 4, pp. 2586–2603, 2024.
- 6 T. Althobaiti and Y. Sanjalawe, "Securing cloud computing from flash crowd attack using intrusion detection system based on white shark optimizer and ensemble classifier," *Computer Systems Science and Engineering*, 2023, Web of Science Indexed, Q1, IF 4.39.
- 7 A. Al-Daraiseh, Y. Sanjalawe, S. Al-E'mari, S. Fraihat, M. Bany Taha, and M. Al-Muhammed, "Cryptographic grade chaotic random number generator based on tent-map," *Journal of Sensor and Actuator Networks*, 2023, Web of Science and Scopus Indexed, Q1, IF 4.41.
- 8 S. Al-E'amri, Y. Sanjalawe, D. Alsmadi, E. Alduweib, and A. Alharbi, "Employing mutual information feature selection and lightgbm for intrusion detection in iot," *ICIC Express Letters*, 2023.

- 9 S. Al-E'mari, Y. Sanjalawe, A. Al-Daraiseh, M. Bany Taha, and M. Aladaileh, "Cloud datacenter selection using service broker policies: A survey," *Computer Modeling in Engineering Sciences*, 2023, Web of Science and Scopus Indexed, Q2, IF 2.027.
- 10 S. Al-E'mari, Y. Sanjalawe, and S. Frihat, "Detection of obfuscated tor traffic based on bidirectional generative adversarial networks and vision transform," *Computers and Security*, 2023, Web of Science and Scopus Indexed, Q1, IF 5.105.
- 11 Y. Sanjalawe and S. Al-E'mari, "Abnormal transactions detection in the ethereum network using semi-supervised generative adversarial networks," *IEEE Access*, 2023, Web of Science and Scopus Indexed, Q1, IF 3.37.
- 12 Y. Sanjalawe and T. Althobaiti, "Ddos attack detection in cloud computing based on ensemble feature selection and deep learning," *Computers, Materials Continua*, 2023, Web of Science Indexed, Q2, IF 3.86.
- 13 Y. Alsariera, A. Al Omari, M. Albawaleez, and Y. K. Sanjalawe, "Hybridized ba pso t-way algorithm for test case generation," *International Journal of Computer Science and Network Security*, 2022, Web of Science Indexed.
- 14 Q. Alzoubi, M. Anbar, Y. Sanjalawe, M. Albetar, and R. Abdullah, "Intrusion detection system based on hybridizing a modified binary grey wolf optimization and particle swarm optimization," *Expert Systems with Applications*, 2022, Web of Science Indexed, Q1, IF 8.66.
- 15 O. Hanhsal, O. Ucan, and Y. K. Sanjalawe, "A hybrid deep learning model for automatic fake news detection," *Applied Nanoscience*, 2022, Web of Science Indexed, Q3, IF 3.86.
- 16 M. Aladaileh, M. Anbar, I. Hasbullah, and Y. K. Sanjalawe, "Information theory-based approaches to detect ddos attacks on software-defined networking controller: A review," *International Journal Of Education And Information Technologies*, vol. 15, 2021, Web of Science Indexed, Q2, IF 3.86.
- 17 M. Aladaileh, M. Anbar, I. Hasbullah, Y. K. Sanjalawe, and Y. Chong, "Entropy-based approach to detect ddos attacks on software defined networking controller," *CMC-Computers, Materials Continua*, 2021, Web of Science Indexed, Q2, IF 3.86.
- 18 S. Al-E'mari, M. Anbar, Y. K. Sanjalawe, S. Selvakumar, and I. Hasbullah, "Intrusion detection systems using blockchain technology: A review, issues and challenges," *Computer Systems Science and Engineering*, 2021, Web of Science Indexed, Q1, IF 4.397.
- 19 M. Elenezi, M. Altwaiji, and Y. Sanjalawe, "Does online education support high impact educational practices (hieps)?" *International Journal of Educational Sciences*, vol. 32, no. 1-3, pp. 120-136, 2021, Web of Science Indexed.
- 20 Y. K. Sanjalawe, M. Anbar, and S. Al-E'mari, "Covid-19 automatic detection using deep learning," *Computer Systems Science and Engineering*, 2021, Web of Science Indexed, Q1, IF 4.397.
- 21 Y. K. Sanjalawe, M. Anbar, and Q. M. Al-zoubi, "An evaluation of identity and access management systems," *International Journal of Internet Technology and Secured Transactions*, vol. 11, no. 1, pp. 35-58, 2021, Scopus Indexed, Q3.
- 22 M. A. Aladaileh, M. Anbar, I. H. Hasbullah, Y. W. Chong, and Y. K. Sanjalawe, "Detection techniques of distributed denial of service attacks on software-defined networking controller: A review," *IEEE Access*, vol. 8, pp. 143 985-143 995, 2020, Web of Science Indexed, Q2, IF 3.476.
- 23 S. T. Alanazi, H. Al-bashiri, and Y. Sanjalawe, "A proposed erp data collector to converge the old legacy data into the new erp," *International Journal of Information Technology and Language Studies*, vol. 4, no. 2, 2020, Scopus Indexed.
- 24 H. Zaghloul, J. Alandejani, and Y. Sanjalawe, "A proposed plan to implement core competencies and high-impact educational practices in saudi universities in light of the experiences of some international

universities,” *International Journal of Education and Information Technologies*, vol. 14, pp. 223–240, 2020, Web of Science Indexed.

- 25 Y. K. Sanjalawe and M. Anbar, “Measuring the efficiency of using hadoop to analyze big data- a case study on twitter data set,” *Journal of Theoretical Applied Information Technology*, vol. 95, no. 12, 2017, Scopus Indexed.
- 26 Y. K. Sanjalawe and M. Anbar, “The plagiarism detection systems for higher education - a case study in saudi universities,” *International Journal of Software Engineering Applications*, vol. 8, no. 2, 2017, Scopus Indexed.
- 27 Y. K. Sanjalawe, M. Q. Al-Nabhan, and E. A. Abu-Shanab, “Addressing security and privacy issues in cloud computing,” *Journal of Emerging Technologies in Web Intelligence*, vol. 6, no. 2, 2014, Scopus Indexed.

Conference Proceedings

- 1 S. Al-E’mari, Y. Sanjalawe, and T. Alqurashi, “Comparative evaluation of bio-inspired feature selection methods in intrusion detection,” in *2ed International Conference on Cyber Resilience (ICCR) 2024*, Dubai, UAE, 2024.
- 2 S. Al-E’mari, Y. Sanjalawe, S. Makhadmeh, and H. Qudah, “Digital forensics meets blockchain: Enhancing evidence authenticity and traceability,” in *2ed International Conference on Cyber Resilience (ICCR) 2024*, Dubai, UAE, 2024.
- 3 S. Al-E’mari, Y. Sanjalawe, and H. Qudah, “Integrating enhanced security protocols with moving object detection: A yolo-based approach for real-time surveillance,” in *2ed International Conference on Cyber Resilience (ICCR) 2024*, Dubai, UAE, 2024.
- 4 S. Makhadmeh, Y. Sanjalawe, and H. Fakhouri, “Intrusion detection system using modified arithmetic optimization algorithm for large-scale iot,” in *2ed International Conference on Cyber Resilience (ICCR) 2024*, Dubai, UAE, 2024.
- 5 A. Ababneh and Y. Sanjalawe, “An efficient text classification technique based on a neural network and noise-words removal,” in *24th International Arab Conference on Information Technology (ACIT2023)*, Ajman, UAE, 2023.
- 6 S. Al-E’mari and Y. Sanjalawe, “A review of reentrancy attack in ethereum smart contracts,” in *3rd International Conference on Computing and Communication Networks (ICCCNet-2023)*, Scopus Indexed, Manchester, UK, 2023.
- 7 Y. Sanjalawe and S. Ale’mari, “Cloud computing simulators: A review,” in *24th International Arab Conference on Information Technology (ACIT2023)*, Ajman, UAE, 2023.
- 8 F. Abu Zwayed, M. Anbar, Y. Sanjalawe, and S. Selvakumar, “Intrusion detection systems in fog computing – a review,” in *International Conference on Advances in Cyber Security*, Accepted, Scopus Indexed, Singapore: Springer, 2021.
- 9 N. Al-Mi’ani, M. Anbar, Y. Sanjalawe, and S. Karuppayah, “Securing software defined networking using intrusion detection system- a review,” in *International Conference on Advances in Cyber Security*, Accepted, Scopus Indexed, Singapore: Springer, 2021.
- 10 S. Al-E’mari, M. Anbar, Y. Sanjalawe, and S. Manickam, “A labeled transactions-based dataset on the ethereum network,” in *International Conference on Advances in Cyber Security*, Scopus Indexed, Singapore: Springer, 2020, pp. 61–79.
- 11 S. T. Alanazi, M. Anbar, S. Karuppayah, A. K. Al-Ani, and Y. K. Sanjalawe, “Detection techniques for ddos attacks in cloud environment,” in *Intelligent and Interactive Computing*, Scopus Indexed, Singapore: Springer, 2019, pp. 337–354.

Skills

- Languages **■** Strong reading, writing, and speaking competencies in English.
- Coding **■** Java, PHP, Python, R, SQL, C++.
- Databases **■** MySQL, SQLSERVER.
- Web Dev **■** HTML, CSS, JavaScript.
- Misc. **■** Academic research, teaching, training, consultation.

Miscellaneous Experience

Awards and Achievements

- 2014 **■** **Top Performer in College**, Awarded the top-ranking position at IT College in the Master of Computer Information System program at Yarmouk University.
- 2022 **■** **Training of Trainers (ToT)- Introductory Crash Course**, EDRAAK
- **Advanced Diploma in Training of Trainers (ToT)**, Alison Academy
- **Certificate of academic work practice** , Ministry of Higher Education & Scientific research, Jordan
- **IELTS Certificate**

References

Available upon request