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Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Outage performance analysis of antenna selection schemes in UAV-assisted networks**
Al-Qarahghli I., YAHYA H., Aldababsa M.
AEU - International Journal of Electronics and Communications, vol.178, 2024 (SCI-Expanded)
- II. **A Security Enhanced Chaotic-Map Based Authentication Protocol for Internet of Drones**
Mahmood K., Ghaffar Z., Farooq M., YAHYA H., Das A. K., Chaudhry S. A.
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- III. **Sustainable Development of a Direct Methanol Fuel Cell Using the Enhanced LSHADE Algorithm and Newton Raphson Method**
Singla M. K., Gupta J., Alsharif M. H., Jahid A., Yahya K.
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- IV. **Enhancing UAV communication links with Reconfigurable intelligent surfaces**
Salih N. M., Aldababsa M., Yahya K.
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- V. **A Comprehensive Study on the Performance of Various Tracker Systems in Hybrid Renewable Energy Systems, Saudi Arabia**
Alanazi M., Attar H., Amer A., Amjad A., Mohamed M., Majid M. S., Yahya K., Salem M.
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- VI. **Bandwidth and power efficient lightweight authentication scheme for healthcare systems☆☆☆☆☆**
Jan S. U., Ghani A., Alzahrani A., Saqlain S. M., YAHYA H., Sajjad H.
Journal of King Saud University - Computer and Information Sciences, vol.35, no.7, 2023 (SCI-Expanded)
- VII. **A Comprehensive Review of Electric Vehicle Charging Stations with Solar Photovoltaic System Considering Market, Technical Requirements, Network Implications, and Future Challenges**
Alrubai A. J., Salem M., Yahya K., Mohamed M., Kamarol M.
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- VIII. **Biogeography-Based Teaching Learning-Based Optimization Algorithm for Identifying One-Diode, Two-Diode and Three-Diode Models of Photovoltaic Cell and Module**
Rai N., Abbadi A., Hamidia F., Douifi N., Abdul Samad B., Yahya K.
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- IX. **A Novel MPPT Based Reptile Search Algorithm for Photovoltaic System under Various Conditions**
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- X. **Evaluating the Performance of Fuzzy-PID Control for Lane Recognition and Lane-Keeping in Vehicle Simulations**
Samuel M., Yahya K., Attar H., Amer A., Mohamed M., Badmos T. A.
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- XI. **Optimal Design of Hybrid Renewable Systems, Including Grid, PV, Bio Generator, Diesel Generator, and Battery**
He M., Forootan Fard H., Yahya K., Mohamed M., Alhamrouni I., Awalin L. J.
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- XII. **LAS-SG: An Elliptic Curve-Based Lightweight Authentication Scheme for Smart Grid Environments**
Chaudhry S. A., Yahya K., Garg S., Kaddoum G., Hassan M. M., Zikria Y. B.
IEEE Transactions on Industrial Informatics, vol.19, no.2, pp.1504-1511, 2023 (SCI-Expanded)
- XIII. **FHAAPS: Efficient Anonymous Authentication with Privacy Preservation Scheme for Farm-to-Home Communication**
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- XIV. **Performance analysis of majority-based transmit antenna selection and maximal ratio combining in MIMO-NOMA networks**
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- XV. **Analysing Various Control Techniques for Manipulator Robotic System (Robogymnast)**
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- XVI. **Simple Mathematical and Simulink Model of Stepper Motor**
Iqteit N. A., Yahya K., Makahleh F. M., Attar H., Amer A., Solyman A. A. A., Qudaimat A., Tamizi K.
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- XVII. **A Comprehensive Review on Multilevel Inverters for Grid-Tied System Applications**
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- XVIII. **A Privacy Enhanced Authentication Scheme for Securing Smart Grid Infrastructure**
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- XIX. **Rotating behind Privacy: An Improved Lightweight Authentication Scheme for Cloud-based IoT Environment**
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- XX. **GCACS-IoD: A certificate based generic access control scheme for Internet of drones**
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- XXI. **A new maximum power point tracking algorithm based on power differentials method for thermoelectric generators**
Yahya K., Alomari O.
International Journal of Energy Research, vol.45, no.5, pp.7476-7486, 2021 (SCI-Expanded)
- XXII. **Toward Optimal Cost-Energy Management Green Framework for Sustainable Future Wireless Networks**
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- XXIII. **Strategic Market Growth and Policy Recommendations for Sustainable Solar Energy Deployment in South Korea**
Alsharif M. H., Yahya K., Geem Z. W.
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- XXIV. **Machine learning algorithms for smart data analysis in internet of things environment: Taxonomies**

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Alsharif M. H., Kelechi A. H., Yahya K., Chaudhry S. A.
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- XXV. **Application of machine intelligence technology in the detection of vaccines and medicines for SARS-CoV-2**
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European Review for Medical and Pharmacological Sciences, vol.24, no.22, pp.11977-11981, 2020 (SCI-Expanded)
- XXVI. **A Secure and Reliable Device Access Control Scheme for IoT Based Sensor Cloud Systems**
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- XXVII. **Deep learning applications to combat the dissemination of COVID-19 disease: A review**
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- XXVIII. **A Novel Pairing-Free Lightweight Authentication Protocol for Mobile Cloud Computing Framework**
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- XXIX. **Practical implementation of maximum power tracking based short-current pulse method for thermoelectric generators systems**
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Journal of Power Electronics, vol.18, no.4, pp.1201-1210, 2018 (SCI-Expanded)

Articles Published in Other Journals

- I. **Investigating and calculating the temperature of hot-spot factor for transformers**
YAHYA H., Attar H., Issa H., Ramadan Dofan J. A., Iqteit N. A., Yahya A. E., SOLYMAN A. A. A.
Indonesian Journal of Electrical Engineering and Computer Science, vol.30, no.3, pp.1297-1307, 2023 (Scopus)
- II. **Obstacle Detection Method Based on Non-iterative K-means Algorithm**
Hu H., Su R., Zhang Z., Wang Y., Yin Z., YAHYA H.
Journal of Network Intelligence, vol.8, no.2, pp.421-432, 2023 (Scopus)
- III. **Evolution of wireless communication networks: from 1G to 6G and future perspective**
Ahmed Solyman A. A., Yahya K.
International Journal of Electrical and Computer Engineering, vol.12, no.4, pp.3943-3950, 2022 (Scopus)
- IV. **Key performance requirement of future next wireless networks (6G)**
Solyman A. A. A., Yahya K.
Bulletin of Electrical Engineering and Informatics, vol.10, no.6, pp.3249-3255, 2021 (Scopus)
- V. **Simulink model of transformer differential protection using phase angle difference based algorithm**
Iqteit N. A., Yahya K.
International Journal of Power Electronics and Drive Systems, vol.11, no.2, pp.1088-1098, 2020 (Scopus)
- VI. **Supervised machine learning for smart data analysis in internet of things environment: An overview**
Alsharif M. H., Mosier W. A., Alomari O. A., Yahya K.
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- VII. **Analyzing and evaluating the energy efficiency based on multi-5G small cells with a mm-waves in the next generation cellular networks**
Alsharif M. H., Yahya K., Chaudhry S. A.
International Journal of Electrical and Computer Engineering, vol.10, no.4, pp.3492-3500, 2020 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

- I. **The Role of Smart Environment Initiatives on Environmental Degradation: Consolidating the**

Resilient Built Landscape

AGBOOLA O. P., MOVEH S., Yahya K., Attar H., Amer A.

1st International Engineering Conference on Electrical, Energy, and Artificial Intelligence, EICEEAI 2022, Zarqa, Jordan, 6 - 08 December 2022

II. Design a PLC-Based Automated and Controlled Liquid Filling-Capping System

Mahrez A., Hilmy A., Alasoad A., Yahya A. E., YAHYA H., Amer A., Attar H.

1st International Engineering Conference on Electrical, Energy, and Artificial Intelligence, EICEEAI 2022, Zarqa, Jordan, 6 - 08 December 2022

III. Simulating LQR and PID controllers to stabilise a three-link robotic system

Mohamed M., Anayi F., Packianather M., Samad B. A., Yahya K.

2nd International Conference on Advance Computing and Innovative Technologies in Engineering, ICACITE 2022, Greater Noida, India, 28 - 29 April 2022, pp.2033-2036

IV. On the Security of an Authentication Scheme for Smart Metering Infrastructure

Yahya K., Chaudhry S. A., Al-Turjman F.

2020 International Conference on Emerging Technology in Computing, Communication and Electronics, ETCCE 2020, Virtual, Dhaka, Bangladesh, 21 - 22 December 2020

V. Performance evaluation of different solar photovoltaic technologies in Libya

Almaktar M., Albreki A., Mohamed F. A., Yahya K., Hussein T.

11th International Renewable Energy Congress, IREC 2020, Virtual, Hammamet, Tunisia, 29 - 31 October 2020

VI. Improving the performance of the MPPT for thermoelectric generator system by using Kalman filter

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