

## الخطة البحثية لقسم التقنيات الكهربائية للعام الدراسي ٢٠٢٣-٢٠٢٤

| ت | اسم الباحث                                    | اسم الباحث كما ورد في البحث               | اسم البحث                                                                                                           | اسم المجلة                                                                                                                                                                         | سنة النشر  | نوع البحث |     |      |        |
|---|-----------------------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|-----|------|--------|
|   |                                               |                                           |                                                                                                                     |                                                                                                                                                                                    |            | scops     | wos | محلي | تطبيقي |
| ١ | م. محمود حاكم عناد                            | Mahmood H. Enad                           | Detecting and tracking a road-drivable area with three-dimensional point clouds and IoT for autonomous applications | Service Oriented Computing and Applications<br><a href="https://doi.org/10.1007/s11761-024-00399-7">https://doi.org/10.1007/s11761-024-00399-7</a>                                 | 2024 -2024 | ✓         |     |      |        |
| 2 | م. محمود حاكم عناد<br>م.م علي اكبر خليل محمود | Mahmood H. Enad<br>Ali A. Khaleel Mahmoud | Performance Evaluation of a 2DOF_PID Controller Using Metaheuristic Optimization Algorithms                         | Journal Européen des Systèmes Automatisés Vol. 57, No. 3, June, 2024, pp. 709-715 Journal homepage:<br><a href="http://iieta.org/journals/jesa">http://iieta.org/journals/jesa</a> | 2024 -2024 | ✓         |     |      |        |
| 3 | م.د حيدر صلاح محمد م. محمود حاكم عناد         | Hayder Salah Mohammed Mahmood H. Enad     | Grey wolf optimization-based fractional MPPT for enhancing performance and                                          | Int. j. inf. tecnol.<br><a href="https://doi.org/10.1007/s41870-024-02042-2">https://doi.org/10.1007/s41870-024-02042-2</a>                                                        | 2024 -2024 | ✓         |     |      |        |

|  |   |  |   |            |                                                                                                                                                                                                                                     |                                                                                                                                   |                                                                                     |                                                                                  |   |
|--|---|--|---|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---|
|  |   |  |   |            |                                                                                                                                                                                                                                     | efficiency of photovoltaic systems                                                                                                | Ali A. Khaleel<br>Mahmoud                                                           | م.م علي اكبر<br>خليل محمود                                                       |   |
|  | ✓ |  |   | 2024 -2024 | International Academic Journal<br>of Science and Engineering<br>Vol.11, No.1, 2024, pp.247-255.<br>ISSN 2454-3896                                                                                                                   | Programmable Logic<br>Controllers Application<br>in Speed control of<br>single phase induction<br>Motor                           | Abbas Fadel<br>Mohammed<br>Ameerah<br>Abdulwahhab<br>Hayder Salah<br>Mohammed       | م.م عباس<br>فاضل محمد<br>م.م اميرة عبد<br>الوهاب فليفل<br>م.د حيدر<br>صلاح محمد  | 4 |
|  |   |  | ✓ | 2024 -2024 | International Journal on Recent<br>and Innovation Trends in<br>Computing and Communication<br>ISSN: 2321-8169 Volume: 11<br>Issue: 10 Article Received: 26<br>August 2023 Revised: 20 October<br>2023 Accepted: 02 November<br>2023 | Investigating the Impact<br>of Partial Shading on<br>Photovoltaic Panels and<br>Enhancing their<br>Efficiency using the<br>python | Hayder Salah<br>Mohammed<br><br>Ali Akbar<br>Khaleel<br><br>Abbas Fadel<br>Mohammed | م.د حيدر<br>صلاح محمد<br>م.م علي اكبر<br>خليل محمود<br><br>م.م عباس<br>فاضل محمد | 5 |
|  |   |  | ✓ | 2024 -2024 | Service Oriented Computing and<br>Applications                                                                                                                                                                                      | Early detection of arc<br>faults in DC microgrids                                                                                 | Ameerah<br>Abdulwahhab                                                              | م.م اميرة عبد<br>الوهاب فليفل                                                    | 6 |

|  |   |   |  |            |                                                                                                                                                                                                               |                                                                                                     |                                                                        |                                                                            |   |
|--|---|---|--|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|----------------------------------------------------------------------------|---|
|  |   |   |  |            | <a href="https://doi.org/10.1007/s11761-024-00420-z">https://doi.org/10.1007/s11761-024-00420-z</a>                                                                                                           | using wavelet-based feature extraction and deep learning                                            | Abbas Fadel<br>Mohammed<br>Fatima<br>kadhemi Abd<br>Mahmood H.<br>Enad | م.م عباس<br>فاضل محمد<br>م.م فاطمة<br>كاظم<br>عبد<br>م. محمود<br>حاكم عناد |   |
|  | ✓ |   |  | 2024 -2024 | The Fifth Scientific Conference for Electrical Engineering Techniques Research (EETR 2024) Baghdad, Iraq, 15-16 June, 2024<br><a href="https://eetr2024.eetc.mtu.edu.iq">https://eetr2024.eetc.mtu.edu.iq</a> | Investigating the Impact of Ground Reflector on the Performance of Solar LED Street Lighting System | Mahmood H.<br>Enad                                                     | م. محمود<br>حاكم عناد                                                      | 7 |
|  |   | ✓ |  |            | Al-Furat Journal of Innovations in Electronics and Computer Engineering (FJIECE) ISSN - 2708-3985                                                                                                             | Design and Evaluation of a Hybrid 2D-SWZCC OCMDA System with Multicarrier MM-Wave                   | Zaid Jabbar<br>Al-Allaq                                                | م.م زيد جبار<br>عبيد                                                       | 8 |

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|  |  |  |  |   |                                                                                                                                           |                                                                                                |                                       |                                    |          |
|  |  |  |  | ✓ | <b>AIP Conf. Proc. 3002, 020007</b><br><b>(2024)</b><br><a href="https://doi.org/10.1063/5.0205791">https://doi.org/10.1063/5.0205791</a> | <b>Multicarrier Millimeter</b><br><b>Wave Through Wireless</b><br><b>Optical Communication</b> | <b>Zaid Jabbar</b><br><b>Al-Allaq</b> | <b>م.م زيد جبار</b><br><b>عبيد</b> | <b>9</b> |