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| ▼ الاسم المستخدم في نشر البحوث حسب الكوكل سكولر**Firas Mohammed Tuaimah** |

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| ▼ الاتجاهات البحثية* السيطرة على القدرة الكهربائية , تنبأ الأحمال , تحليل الأخطاء التي تصيب المنظومة الكهربائية , السيطرة على القدرة الغير فعاله , التشغيل الاقتصادي للمنظومة الكهربائية , وثوقية المنظومة الكهربائية , السريان الأمثل للقدرة الكهربائية
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| ▼ الدرجة العلميةأستاذ |

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| ▼الأبحاث المنشورة |

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| 1 | 2003 | Published research Submitted to the fifth Iraqi Engineering conference in Baghdad university entitled “**Network Application in Monitoring Power Plants**”, 25-27 Feb. 2003, Baghdad, Iraq. |
| 2 | 2003 | Published research submitted to the 2nd Iraqi national conference in computer and information entitled “**A New Technique of Remote Management for Power Plants**”, 2-3 March 2003, Baghdad, Iraq. |
| 3 | 2010 | Published research submitted to the Iraqi Engineer Journal entitled “**Voltage Stability and Loss Reduction Via Optimum Location of a Series Capacitor**”, Vol. 16, No.3, pp.5736-5752, Sep.2010. |
| 4 | 2010 | Published research submitted to the 2nd regional conference for engineering science entitled “**Robust H-infinity Controller Design For Hydro Turbines Governor**” on 1-2 Dec. 2010, Baghdad, Iraq. |
| 5 | 2011 | Published research submitted to the Iraqi Engineer Journal entitled “**DC Motor Speed Controller Design using Pole Assignment Technique for Industrial Application**”, Vol.17, No.3, pp.466-472 ,June 2011 |
| 6 | 2011 | Published research submitted to the Mediterranean Journal of Electrical Power Management and Distribution entitled “**Static Var Compensator (SVC)** **Implementation on Super High Voltage Network**”. |
| 7 | 2011 | Published research submitted to the IEEE PES Conference on Innovative Smart Grid Technologies-Middle East (ISGT) "**Optimal Power Flow for Iraqi High Voltage Network Based on Interior point (IP)**" on 17-20 Dec. 2011, Jeddah, Saudi Arabia |
| 8 | 2012 | Published research submitted to the 1st National Conference for Engineering Science (FNCES12) Entitled “**Reactive Power Shunt Compensation Impacts on Voltage Stability**” on 7-8 Nov. 2012, Baghdad, Iraq. |
| 9 | 2012 | Published research submitted to International Journal for Computer Applications (IJCA)**"** **Modeling of SVC Controller based on Adaptive PID Controller using Neural Networks"** Volume 59– No.6, December 2012 |
| 10 | 2012 | Published research submitted to International Journal for Computer Applications (IJCA)**"** **A Particle Swarm Optimization based Optimal Power Flow Problem for Iraqi Extra High Voltage Grid"** Volume 59– No.8, December 2012 |
| 11 | 2013 |  Published research submitted to International Journal for Computer Applications (IJCA)**"V/VAR Control for the Iraqi National SHV Grid by Optimum Placement of SVC using Genetic Algorithm"** Volume 66– No.12, March 2013 |
| 12 | 2013 | Published research submitted to International Journal for Computer Applications (IJCA)**"** **Ant Colony Optimization based Optimal Power Flow Analysis for the Iraqi Super High Voltage Grid**" Volume 67– No.11, April 2013. |
| 13 | 2014 | Published research submitted to International Journal for Computer Applications (IJCA)**"** **Optimal Controller Design for a Turbogenerator Automatic Voltage Regulator and Governor using Two Degree of freedom Linear Quadratic Gaussian (2DOFLQG)**" Volume 85 – No 12, January 2014 |
| 14 | 2014 | Published research submitted to International Journal for Computer Applications (IJCA)**"On-Line Monitoring and Diagnostic System for Turbine-Generator Sets"** Volume 89 – No.2, March 2014 |
| 15 | 2014 | Published research submitted to International Journal for Computer Applications (IJCA)**"Steam Turbine Governor Design based on Pole Placement Technique**"Volume 92 – No.13, April 2014 |
| 16 | 2014 | Published research submitted to the Iraqi Engineer Journal entitled “**A Linear Programming Method Based Optimal Power Flow Problem for Iraqi Extra High Voltage Grid (EHV)**”Vol.20, No.4, pp.23-35, April 2014 |
| 17 | 2014 | Published research submitted to the International Journal of World Academy of Science, Engineering and Technology (WASET)"**Two Day Ahead Short Term Load Forecasting Neural Network Based**" Vol.:8, No.7, pp.1044-1048, August 2014 |
| 18 | 2014 | Published research submitted to International Journal for Computer Applications (IJCA)**"** **Short-Term Electrical Load Forecasting for Iraqi Power System based on Multiple Linear Regression Method "** Volume 100 – No.1, August 2014 |
| 19 | 2014 | Published research submitted to the International Journal of World Academy of Science, Engineering and Technology (WASET)"**Iraqi Short Term Electrical Load Forecasting Based on Interval Type-2 Fuzzy Logic**" Vol.:8, No.8, pp.1097-1103, August 2014. |
| 20 | 2015 | Published research submitted to the Iraqi Engineer Journal entitled "**Optimal Location of Static Synchronous Compensator (STATCOM) for IEEE 5-Bus Standard System Using Genetic Algorithm**"" Vol.:21, No.7, pp.72-84, July 2015 |
| 21 | 2016 | Published research submitted to International Journal for Computer Applications (IJCA)**"** **Voltage Stability Enhancement for Iraqi (400 kV) Super High Voltage Grid System based on Cat Swarm Optimization Algorithm"** Volume 134 – No.16, January 2016 |
| 22 | 2016 | Published research submitted to International Journal for Computer Applications (IJCA)**"** **Power System Dynamic State Estimation based on Kalman Filter "** Volume 154 – No.11, November 2016 |
| 23 | 2017 | Published research submitted to International Journal for Computer Applications (IJCA)**"** [**Investigation of One Day Ahead Load Forecasting for Iraqi Power System**](http://www.ijcaonline.org/archives/volume163/number1/27360-27360-2017913450) **"** Volume 163 – No.1, April 2017 |
| 24 | 2017 | Published research submitted to the International Journal of Applied Engineering Research" **Power System Static Security Assessment for Iraqi Super High Voltage Grid** " Volume 12 – No.19, pp.8354-8365, 2017  |
| 25 | 2017 | Published research submitted to International Journal for Computer Applications (IJCA)"Wind Energy System MVA Profile Enhancement based on Feedback Quadratic Function Controller" Volume 178 – No.6, November 2017 |
| 26 | 2018 | Published research submitted to International Journal for Computer Applications (IJCA)"Impact of a New Strategy of Deployment Diesel Generators on a Power System under Contingency" Volume 180 – No.48, November 2018 |
| 27 | 2018 | Published research submitted to the International Journal of Engineering & Technology "Power transmission system midpoint voltage fixation using SVC with genetic tuned simple PID controller" 7 (4) (2018) |
| 28 | 2018 | Published research submitted to the International Journal of Engineering & Technology "Investigation study to achieve a logarithmic reduction strategy for load shedding based on priority demand" 7 (4) (2018) |
| 29 | 2019 | Published research submitted to the Journal of Engineering & Applied Sciences "Assessment of Integrating Wind Energy System on Iraqi Power Grid Capability Limit" 2019 |
| 30 | 2019 | Published research submitted to the Iraqi Engineer Journal entitled " **Demand Priority in a Power System With Wind Power Contribution Load Shedding Scheme Based** " 2019 |
| 31 | 2019 | Published research submitted to International Journal for Computer Applications (IJCA)"Impact of Integrating Wind Energy into Power Grid System" Volume 177 – No.14, October 2019 |
| 32 | 2020 | Published research submitted to International Journal for Computer Applications (IJCA)"Optimal Power Flow for a Power System under Particle Swarm Optimization (PSO) based" Volume 177 – No.33, January 2020 |
| 33 | 2020 | Published research submitted to the Iraqi Engineer Journal entitled " **Study Impact of Unified Power Flow Controller (UPFC) on a Transmission Line Performance under Different Loading Conditions**" Number 2 Volume 26 February 2020 |
| 34 | 2020 | Published research submitted to the International Journal of Power Electronics and Drive System (IJPEDS)" **Optimal Location of Unified Power Flow Controller Genetic Algorithm Based**" Vol. 11, No. 2, June 2020, pp. 886~894 |
| 35 | 2020 | Published research submitted to the Journal of Mechanics of Continua and Mathematical " **Effect of Electromagnetic Field on the Natural Circulation in Solar Absorber Tube: Review Pape**r" Vol. 15, No. 6, June 2020, pp. 16~35 |
| 36 | 2020 | Published research submitted to the Journal of Mechanics of Continua and Mathematical" **Electromagnetic Effect on Free Flow of the Nanofluid in Absorber of Concentrated Solar Collector**" Vol. 15, No. 7, July2020, pp. 99~116 |
| 37 | قبول نشر | Published research submitted to the Iraqi Journal for Mechanical and Materials Engineering" **Electromagnetic Effect on Thermo Hydro Dynamics Behavior of Nanofluid in Solar Collector: Critical Review**" Vol., No. , , pp.~ |
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| ▼ الكتب والمؤلف |

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| Firas M. Tuaimah**"Electrical Optimal Power Flow Applications of Optimization with applied case studies"** Scholars Press, OmniScriptum GmbH & Co.KG**,** Germany, 2016 | 1 |

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| ▼ رسائل الماجستير الذي اشرف عليها |

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| **ت** | **عنوان الرسالة** | **القسم** | **التاريخ** |
| 1 | تصميم مسيطر لمنظومة رياح ذات سرع متغيرة  | الهندسة/ كهرباء | 2010 |
| 2 | تصميم معوض قدرة خيالية ثابت لمنظومة القدرة الخيالية العراقية ذات الجهد الفائق.  | الهندسة/ كهرباء | 2011 |
| 3 | السريان الأمثل للقدرة الكهربائية في منظومة الجهد الفائق العراقية بأستخدام طريقة سريان الجسيمات المثلى. | الهندسة/ كهرباء | 2012 |
| 4 | السيطرة على الفولتية والقدرة الخيالية لمنظومة الجهد الفائق العراقية من خلال التوزيع الأمثل لمعوض القدرة الخيالية بأستخدام خوارزمية جينية.  | الهندسة/ جامعة براندربرغ المانيا | 2012 |
| 5 | السريان الأمثل للقدرة الكهربائية في منظومة الجهد الفائق العراقية بأستخدام طريقة سريان الديدان المثلى. | الهندسة/ كهرباء | 2012 |
| 6 | السيطرة على القدرة الخيالية بأستخدام الخوارزمية العصبية | الهندسة/ كهرباء | 2013 |
| 7 | استخدام طريقة جينية لأختيار الموقع الأمثل لمنظومات معوض القدرة الخيالية الثابت المتزامن لشبكة الجهد الفائق العراقية | الهندسة/ كهرباء | 2013 |
| 8 | تنبأ الأحمال للشبكة العراقية للأزمان القصيرة بأستخدام المنطق المضبب | الهندسة/ كهرباء | 2014 |
| 9 | تحسين استقرارية الفولتية لشبكة الجهد الفائق العراقية بأستخدام طريقة سريان القطط | الهندسة/ كهرباء | 2015 |
| 10 | تنبأ الحالات لشبكة الجهد الفائق العراقية بأستخدام الطريقة الديناميكية | الهندسة/ كهرباء | 2016 |
| 11 | تخمين الحالة الديناميكية للشبكه الوطنية الكهربائية العراقية | الهندسة/ كهرباء | 2017 |
| 12 | تأثير طاقة الرياحعلى الشبكة الكهربائية العراقية | الهندسة/ كهرباء | 2019 |
| 13 | السريان الأمثل للقدرة الكهربائية في المنظومة الكهربائية بأستخدام خوارزمية النحل الأصطناعية. | جامعة الرازي / كلية الهندسة/ إيران | 2019 |
| 14 | تأثير دمج وحدة تحكم تدفق الطاقةعلى الشبكة الوطنية العراقيه | الهندسة/ كهرباء | 2020 |

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| ▼اطاريح الدكتوراه الذي اشرف عليها

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| 1 | تطوير نموذج جديد وتصميم منظومة تحكم غير خطية للتحليل الأمني لمنظومة طاقة كهربائية كبيرة | الهندسة/ كهرباء | 2017 |
| 2 | استراتيجية جديدة لإدارة نظم الطاقة لشبكات الجهد العالي | الهندسة/ كهرباء | 2020 |
| 3 | تأثير المجال الكهرومغناطيسي على السريان الطبيعي في انبوب الأمتصاص الشمسي | الهندسة/ ميكانيك | 2020 |
| 4 | دراسة مزايا استخدام نظام نقل HVDC في العراق | الهندسة/ كهرباء | قيد الأنجاز |

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