

CURRICULUM VITAE

1. PERSONAL ELEMENT

LAST NAME: TSEKOURAS

FIRST NAME:GEORGE

OCCUPATION:..... CERTIFICATED ELECTRICAL AND COMPUTER ENGINEER,
CERTIFICATED CIVIL ENGINEER

DATE OF BIRTH: 10/8/1976

MARITAL STATUS:..... SINGLE

CONTACT EMAIL:..... gtsekouras@uniwa.gr ; tsekouras_george_j@yahoo.gr

2. TRAINING

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| 7/1994 | Admission in the School of Electrical and Computer Engineering of the National Technical University of Athens (NTUA) through a Nationwide examination with a Grade Point Average of 19.9 (at a scale of 20) |
| 7/1999 | Graduation from the School of Electrical and Computer Engineering of the National Technical University of Athens, with a specialization in the Power Field. Grade Point Average 9.78 (at a scale of 10). Highest GPA in all Departments of NTUA. |
| 12/1999 | Admission in the Graduate Program of Study of the School of Electrical and Computer Engineering of the National Technical University of Athens |
| 3/2001 | Master's Degree from the Graduate Program of Study of the School of Electrical and Computer Engineering of NTUA, with a specialization in the Power Field. Initiation of a PhD thesis. |
| 3/2001 | Admission in the School of Civil Engineering of the National Technical University of Athens (NTUA) through qualifying exams. |
| 7/2004 | Graduation from the Department of Civil Engineering of the National Technical University of Athens (NTUA), with a specialization in the Structural Field. Grade Point Average 9.75 (at a scale of 10). Highest GPA in the School of Civil Engineering of NTUA. |
| 10/2006 | PhD's Degree from the Graduate Program of Study of the School of Electrical and Computer Engineering of NTUA, with title: "Contribution to short-term and mid-term load and energy forecasting for power systems based on pattern recognition methods". |

3. LANGUAGES

- English (Advanced – TOEIC with degree 885)

4. MILITARY SERVICE

9/5/2005-9/5/2006 Army Corps – Technical Departement - Writer

5. OCCUPATION PRACTICE

11/99-2/09	Freelancer: Electrical Engineer
11/00-2/09	TEAM M-H Consulting Engineers L.T.D & S.A. <ul style="list-style-type: none">• External Associate in electrical engineering projects.
11/04-2/09	Freelancer: Civil Engineer
3/09-2/10	Prefecture of Athens: Electrical Engineer – Civil Engineer
3/10-12/11	Freelancer: Electrical & Civil Engineer
3/10-10/14	Lecturer in Hellenic Naval Academy: Subject: “Electroscience”
10/14-10/17	Assistant Professor in Hellenic Naval Academy: Subject: “Ship power systems”
10/17-3/18	Assistant Professor in Technological Educational Institution of Athens, Department of Energy Technology: Subject: “Power systems: production, transmission and distribution”
3/18-2/24	Assistant Professor in University of West Attica, Department of Electrical and Electronics Engineering: Subject: “Power systems: production, transmission and distribution”
2/24-today	Associate Professor in University of West Attica, Department of Electrical and Electronics Engineering: Subject: “Power systems: production, transmission and distribution”

6. RESEARCH ACTIVITY

01/99-today NATIONAL TECHNICAL UNIVERSITY OF ATHENS –
SPECIAL ACCOUNT FOR RESEARCH GRANTS

- Investigation of energy saving measurements in electric power section - Rational energy use for Greek Public Power Corporation during 1994-1999 (Financial support: GRST-PPC, scientific coordinator: Professor G. Kontaxis).
- New teaching methods for the evolution of students’ scientific profile (Financial support: NTUA, scientific coordinator: Professor T. Sellis).
- Teaching assistance in postgraduate course “Energy production and management” (Financial support: NTUA, scientific coordinator: Professor V. Papadias, Professor G. Kontaxis).
- Centre of Excellence in Ship Total Energy – Emissions – Economy (Financial support: Lloyds Register Educational Trust (LRET), scientific coordinator: Professor Ch. Fragopoulos)
- «THALIS-NTUA Investigation and solution of power quality issues for ships power systems (DEUKALION) (Financial support: NTUA-THALIS, scientific coordinator: Professor J. Prousalidis)
- «Direct Current in Ship Initiative (DC-Ship) (Financial support: NTUA-ARISTIA I, scientific coordinator: Professor J. Prousalidis)

9/99-today NATIONAL TECHNICAL UNIVERSITY OF ATHENS –
INSTITUTE OF COMMUNICATIONS AND COMPUTER SYSTEMS (ICCS)

- Design, construction and test for 20kW wind generator for autonomous and interconnected power system (Financial support: GRST-Flash PkP, scientific coordinator: Professor M. Papadopoulos)
- EU_DEEP (Financial support: European Union, scientific coordinator: Professor N.D. Hatziargyriou).
- Unified computational environment for short-term, midterm and long-term power system planning (Financial support: NTUA, scientific coordinator: Professor G. Kontaxis).
- Estimation of maximum wind generators power production for safe and reliable operation of Cyprus power systems (Financial support: Cyprus Independent Power Transmission Operator, scientific coordinator: Professor E. N. Dialynas).

- 9/99-8/06 NATIONAL TECHNICAL UNIVERSITY OF ATHENS (unwaged)
- Design, construction and test for 20kW wind generator for autonomous and interconnected power system (Financial support: GRST-Flash PkP, scientific coordinator: Professor M. Papadopoulos)
 - Advanced technical analysis for power systems faults and protection Design, construction and test for 20kW wind generator for autonomous and interconnected power system (Financial support: GRST-European Union, scientific coordinator: Professor N.D. Hatziaargyriou)
- 09/10-10/17 HELLENIC NAVAL ACADEMY
- Data collection and processing of parametric supervision system «EPOFIS for gunship “POLEMISTHS” (Financial support: Hellenic Navy, scientific coordinator: G. J. Tsekouras)
- 09/18-today UNIVERSITY OF WEST ATTICA–
SPECIAL ACCOUNT FOR RESEARCH GRANTS
- Investigation research for optimum design of ground electrodes station for High Voltage Direct Connection (HVDC) interconnection between Attica-Crete (Financial support: Hellenic Independent Power Transmission Operator, scientific coordinator: G. J. Tsekouras, budget:15.000 € - duration: 4 months)
 - Study on the effect of the use of protective and operation groundings on the protection of technical personnel in the event of a fault occurrence on a 20kV line due to a 150kV line overhead conductor breakage and investigation of the reliability of repair sleeves on 150kV lines (Financial support: Hellenic Independent Power Transmission Operator, scientific coordinator: A.X. Moronis)

7. ACADEMIC OCCUPATION

7.1. Teaching

- 1999-2005 National Technical University of Athens- School of Electrical and Computer Engineering – PhD Candidate
- Exercises courses for the following pre-graduate lessons:
 - “Introduction in Power Systems” -5th semester for academic periods 1999-2000, 2000-2001, 2001-2002, 2002-2003, 2003-2004, 2004-2005
 - “Flexible Transmission Power Systems” -7th semester for academic periods 2001-2002, 2002-2003, 2003-2004, 2004-2005.
 - “Design of Electrical Settlements” -1st semester for academic periods 2003-2004, 2004-2005.
 - “Electric Economy” -6th semester for academic periods 1999-2000, 2001-2002, 2002-2003, 2003-2004.
 - Exercises courses for the following post-graduate lessons:
 - “Power Systems” -1st semester for academic periods 2000-2001.
 - “Demand Side Management and Energy Efficiency for Buildings” -2nd semester for academic periods 2000-2001, 2001-2002.
 - “Systems and Settlements” -1st semester for academic period 2004-2005.
 - Co-supervision of 5 pre-graduate diploma theses and 1 post-graduate master thesis
- 2015-today National Technical University of Athens- School of Electrical and Computer Engineering – Assistant professor by contract
- Courses for the following pre-graduate lessons:
 - “Electric machines” -6th semester for academic periods 2014-15, 2015-16, 2016-17, 2017-18, 2018-19, 2019-20, 2020-21, 2021-22.
 - “Electric power production” -6th semester for academic periods 2015-16, 2016-17, 2017-18, 2018-19, 2019-20, 2020-21, 2021-22 (exercise courses).
 - Courses for the following post-graduate lessons:
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- “Hydrelectric power plant” -2nd semester for academic periods 2015-16, 2016-17, 2017-18, 2018-19, 2019-20, 2020-21, 2021-22 (unwaged)
 - Supervision of 8 post-graduate master theses
- 2006-2018 Technical Educational of Athens - School of Technological Applications - Energy Technology Department – Lecturer by contract & assistant professor
- “Energy storage” - 3rd semester for academic period 2017-18.
 - “Power Stations” - 5th semester for academic periods 2010-11, 2011-12, 2012-13, 2013-14, 2014-15, 2015-16, 2016-17, 2017-18.
 - “Transmission and distribution power system I” - 5th semester for academic period 2017-18.
 - “Transmission and distribution power system I (laboratory)” - 5th semester for academic period 2017-18.
 - “Measurments systems” - 4th semester for academic period 2017-18.
 - “Measurments systems (laboratory)” - 4th semester for academic period 2012-13, 2013-14, 2014-15, 2015-16, 2016-17, 2017-18.
 - “Electric machines II (laboratory)” - 4th semester for academic period 2006-07, 2017-18.
 - “Transmission and distribution power system II” - 6th semester for academic period 2017-18.
 - “Electrical networks” – 2nd semester for academic period 2008-2009.
 - “Electrical networks (laboratory)” – 2nd semester for academic period 2006-2007, 2007-2008.
 - “Electric Economy and Power Stations” - 5th semester for academic period 2009-2010.
 - “Electroscience III” – 3rd semester for academic periods 2006-2007, 2007-2008.
 - Supervision of 16 pre-graduate theses and 4 post-graduate theses.
- 2006-2008 Technical Educational of Chalkis - School of Technological Applications – Department of Airplanes Technology – Lecturer by contract
- “Electroscience” – 2nd semester for academic period 2007-2008.
 - “Electroscience (laboratory)” – 2nd semester for academic periods 2006-07, 2007-08.
 - “Microprocessors (laboratory)” – 6th semester for academic periods 2006-07, 2007-08.
 - “Airplane electric circuits (laboratory)” – 6th semester for academic periods 2007-08.
- 2007-2017 Hellenic Naval Academic – Lecturer by contract, lecturer and assistant professor
- Courses for the following lessons: “Introduction to Electrical Circuits”, “Electrical circuits: theory and applications”, “Introduction to Electrical Machines”, “Power systems and applications” and for one academic year: “Computers introduction”, “Computers II”.
 - Supervision of 13 pre-graduate theses.
- 2007-2008 Technical Educational of Peiraius - School of Technological Applications - Automation Department – Lecturer by contract
- “Electronic Systems (laboratory)” – 2nd semester for academic period 2007-2008.
 - “Introduction in Telecommunications (laboratory)” – 3st semester for academic period 2007-2008.
 - “Microprocessors: structure and operation (laboratory)” – 4th semester for academic period 2007-2008.
 - “Automatic Control II (laboratory)” – 4th semester for academic period 2007-2008.

2018-today University of West Attica - Department of Electrical and Electronic Engineering–
Assistant professor

1. Courses for the following pre-graduate lessons:
 - “Electrical circuits I” – 1st semester for academic periods 2018-19, 2019-20, 2020-21, 2021-22, 2022-23, 2023-24.
 - “Electrical circuits II” – 2nd semester for academic periods 2018-19, 2019-20, 2020-21, 2021-22, 2022-23, 2023-24.
 - “Power Stations & Electric Economy” – 7th semester for academic periods 2018-19.
 - “Power Stations” – 8th semester for academic periods 2019-20, 2020-21, 2021-22, 2022-23, 2023-24.
 - “Electric economy design and operation for power systems” – 9th semester for academic periods 2019-20, 2020-21, 2021-22, 2022-23, 2023-24.
 - “Ships and ports power system” – 8th semester for academic periods 2018-19, 2019-20, 2020-21.
 - “Introduction to elements and power systems” – 4th semester for academic period 2018-19.
 - Supervision of 7 pre-graduate diploma theses.
2. Courses for the following post-graduate lessons in “Energy systems optimization & management”:
 - “Energy efficiency improvement in residential sector” -2nd semester for academic periods 2018-19, 2020-21.
 - “Efficiency management and energy audits” -3rd semester for academic periods 2019-20, 2021-22.
 - “Smart grids and distributed power plants” -3rd semester for academic periods 2019-20, 2021-22.
3. Courses for the following post-graduate lessons in “Msc by research in Electrical and electronic engineering”:
 - “Power systems: Economic design, operation and energy management” -1st semester for academic period 2019-20.
 - “Power systems: Power production & energy storage” -2nd semester for academic period 2019-20.
 - “Power systems: Hydroelectric power plants: design and operation principles” -1st semester for academic period 2020-21.
 - “Modern technologies and special configurations of power systems” -2nd semester for academic period 2020-21.
 - “Finite elements design principles for electromechanical energy conversion” -2nd semester for academic period 2020-21.
 - “Electric economy design and operation for power systems” -1st semester for academic period 2022-23.
 - “Design principles of autonomous, hybrid and no-hybrid power systems” -1st semester for academic period 2022-23.
 - “Power systems” -2nd semester for academic period 2022-23.
 - «Συστήματα Ηλεκτρικής Ενέργειας και Ισχύος στο μεταπτυχιακό πρόγραμμα «Ηλεκτρικές & Ηλεκτρονικές Επιστήμες μέσω Έρευνας του Τμήματος Ηλεκτρολόγων & Ηλεκτρονικών Μηχανικών Π.Α.Δ.Α. – 2^ο εξάμηνο για το έτος 2022-23.
 - Three post-graduate thesis supervision.
 - Five PhD students.
 - One post-PhD researcher in subject: “ Contribution to the design of high voltage direct current (HVDC) power systems for long distance interconnections with emphasis on optimal grounding electrode system configuration”

2018-today National and Kapodistrian University of Athens / General Department
Assistant Professor by contract in Msc “Advanced Technology in energy saving”:

- “Smart management for renewable energy system” -2nd semester for academic period 2018-19, 2019-20, 2020-21, 2021-22, 2022-23.
- “Power system analysis” -1st semester for academic period 2018-19, 2019-20, 2020-21, 2021-22, 2022-23.

7.2. Educational books

1. George Kontaxis, Stauroula Kavatza George Tsekouras, **George J. Tsekouras**: “Electric economy exercises”, School of Electrical and Electronic Engineering, N.T.U.A., July 2003, pp.114.
2. J. K. Hatzilau, Dimitrios Koupatsiaris, **George Tsekouras**: “Introduction in neural networks”, Hellenic Naval Academy, January 2008, pp. 118.
3. **George J. Tsekouras**, J.K. Hatzilau: “Solution of State Equations and Study of Automatic Control Problems and Chaotic Systems using MATLAB”, Hellenic Naval Academy, March 2008, pp. 73.
4. George Politis, **George J. Tsekouras**: “Electric Machines”, Technical Educational of Peiraius, Automation Department September 2008, pp. 330.
5. **George J. Tsekouras**: “Micro-processors - Laboratory Exercises”, Technical Educational of Chalkis, Department of Airplanes Technology, March 2007, pp. 96.
6. **George J. Tsekouras**: “Electrical Circuits for airplanes, Theory & Exercises – Section A”, Technical Educational of Chalkis, Department of Airplanes Technology, December 2007, pp. 91.
7. **George J. Tsekouras**: “Electrotechnical theory”, Technical Educational of Chalkis, Department of Airplanes Technology, May 2007, pp. 147.
8. **George J. Tsekouras**: “Part E: Electric economy”, Technical Educational of Athens, Department of Energy Technology, May 2010, pp. 187.
9. **George J. Tsekouras**: “Appendix for Electric Theory Circuits: Measurement units and mathematical base for Electrosience”, Hellenic Naval Academy, September 2013, pp. 294.
10. **George J. Tsekouras**, George Kalokiris, George Tsamopoulos: “Laboratory theory for Electrical Circuits- Part A”, Hellenic Naval Academy, January 2014, pp. 286.
11. **George J. Tsekouras**, Panagiotis Michalopoulos: “Introduction in Optimization Techniques”, Hellenic Naval Academy, June 2015, pp. 180.
12. Panagiotis Michalopoulos, **George J. Tsekouras**: “Introduction in MATLAB”, Hellenic Naval Academy, November 2014, pp. 49.
13. **George J. Tsekouras**: “Introduction in basic elements for electrosience”, Hellenic Naval Academy, August 2016, pp. 444.

8. ADMINISTRATIVE ACTIVITY

2018-today University of West Attica - Department of Electrical and Electronic Engineering–
Assistant professor

1. Committee for match-up of courses between Department of Energy Technology and Department of Electrical and Electronic Engineering.
2. Qualifying exams for Department of Electrical and Electronic Engineering (2018-19, 2019-20, 2020-21, 2021-22, 2023-24).
3. Committee of academic fellow evaluation (2018-19, 2019-20, 2020-21, 2021-22).
4. Central elective committee of president and vice-president for Department of Electrical and Electronic Engineering (2019-21).
5. Elective committee of directors for sectors of Department of Electrical and Electronic Engineering (2019-20, 2020-21).
6. Internal Evaluation Workteam for Department of Electrical and Electronic Engineering. (2019-20)

7. Special committee for 6th project inspection “Commission: Maintenance, Expansion and Improvement Networks for Technical Educational Institute of Peiraius” (22/16-10-2018)
8. Member of staff meeting for Department of Electrical and Electronic Engineering for academic periods 2017-18, 2018-19, 2019-20, 2020-21, 2021-22, 2023-24
9. Member of special examination committee for Department of Electrical and Electronic Engineering (100892/ 11-12-2020, 1580/ 11-01-2021, 5210/ 22-01-2021, 54039/08-07-2021, 62132/03-08-2021, 62278/06-08-2021, 70023/13-07-2021)
10. Elective committee of staff meeting members of Department of Electrical and Electronic Engineering for academic period 2021-22.
11. Member of the Steering Committee for “Msc by research in Electrical and electronic engineering” for academic period 2022-23.
12. Director of the Power Systems Sector from 4 October to 11 October 2022
13. Member of the Steering Committee for PhD studies for academic period 2022-23.

2010-2017 Hellenic Naval Academic – Lecturer and assistant professor

1. Reconsideration Committee of Hellenic Naval Academy organization- 2010
2. Internal Evaluation Workteam for Hellenic Naval Academy / Special Evaluation No. 1 for teaching issues (2012-13, 2013-14, 2014-15) / Special Evaluation No. 7 for Computational Systems (2013-14, 2014-15).
3. Committee for diploma thesis regulation-2012.
4. Shore-connection for gunship type “Kasos”, August 2014
5. Electrical re-design of start-up system of AC compressors for gunship type “MAXITIS”, August 2014
6. Power load estimation for shore-connection gunship type “MAXITIS” and high speed patrol boats with guided missiles “Roussen”, March 2015
7. Study for photovoltaic power plant in Submarine Headquarter Building in Salamis Naval Base, June 2015

9. SCIENTIFIC PUBLICATIONS

9.1. PhD Thesis

“Contribution in short-term and mid-term load & energy demand forecasting for power systems based on pattern recognition methods”, School of Electrical and Computer Engineering of the National Technical University of Athens, September 2006

9.2. Publications in scientific magazines

1. **G. Tsekouras**, S.Kiartzis, A.G. Kladas, J.A. Tegopoulos: “Neural Network Approach Compared to Sensitivity Analysis Based on Finite Element Technique for Optimization of Permanent Magnet Generators”, IEEE Transactions on Magnetics, Vol. 37, No. 5, September 2001, pp. 3618-3621.
2. Ch. N. Elias, **G. J. Tsekouras**, S. Kavatza, G. C. Contaxis: “A Midterm Energy Forecasting Method Using Fuzzy Logic”, WSEAS Transactions on Systems, Issue 5, Vol. 3, July 2004, pp. 2128-2135.
3. **G. J. Tsekouras**, N.D. Hatzigargyriou, E. N. Dialynas: “An Optimized Adaptive Neural Network for Annual Midterm Energy Forecasting”, IEEE Transactions on Power Systems, Vol. 21, No. 1, February 2006, pp. 385-391.
4. **G. J. Tsekouras**, M.A. Tsaroucha, A.D. Salis, M. L.-D. Striki, M.G. Platakis, D.A. Tsarouchas, C. J. Tsekoura, C.D. Tsirekis: “LADY: A New Database System for Power Systems Customers, Demand Side Management and Energy Efficiency Programs, Part I – Database’s Description and Conceptual & Logical Design”, WSEAS Transactions on Power Systems, Vol. 2, Issue 4, April 2007, pp. 84-92.

5. **G. J. Tsekouras**, M.A. Tsaroucha, A.D. Salis, M. L.-D. Striki, M.G. Platakis, D.A. Tsarouchas, C. J. Tsekoura, C.D. Tsirekis: "LADY: A New Database System for Power Systems Customers, Demand Side Management and Energy Efficiency Programs, Part II – GUI, Additional Specialized Tools and Education Role", WSEAS Transactions on Power Systems, Vol. 2, Issue 4, April 2007, pp. 93-99.
6. **G. J. Tsekouras**, N.D. Hatziargyriou, E. N. Dialynas: "Two-Stage Pattern Recognition of Load Curves for Classification of Electricity Customers", IEEE Transactions on Power Systems, Vol. 22, No. 3, August 2007, pp.1120-1128.
7. V.T. Kontargyri, A.A. Gialketsi, **G. J. Tsekouras**, I.F. Gonos, I.A. Stathopoulos: "Design of an Artificial Neural Network for the Estimation of the Flashover Voltage on Insulators", Electrical Power Systems Research, Vol. 77, Issue 12, October 2007, pp. 1532-1540.
8. **G. J. Tsekouras**, E. N. Dialynas, N.D. Hatziargyriou, S. Kavatza: "A non-linear multivariable regression model for midterm energy forecasting of power systems", Electrical Power Systems Research, Vol. 77, Issue 12, October 2007, pp. 1560-1568.
9. **G. J. Tsekouras**, P. B. Kotoulas, C.D. Tsirekis, E. N. Dialynas, N. D. Hatziargyriou: "A Pattern Recognition Methodology for Evaluation of Load Profiles and Typical Days of Large Electricity Customers", Electrical Power Systems Research, Vol. 78, June 2008, pp. 1494-1510.
10. **G. J. Tsekouras**, F.D. Kanellos, V.T. Kontargyri, I.S. Karanasiou, A.D. Salis, N.E. Mastorakis: "A New Classification Pattern Recognition Methodology for Power System Typical Load Profiles", WSEAS Transactions on Circuits & Systems, Vol. 12, Issue 7, December 2008, pp. 1090-1104.
11. G.H. Asimakopoulou, V.T. Kontargyri, **G. J. Tsekouras**, F.H. Asimakopoulou, I.F. Gonos, I.A. Stathopoulos: "ANN Optimization Methodology for the Estimation of the Flashover Voltage on Insulators", IET Science, Measurement & Technology, Vol. 3, No. 1, January 2009, pp. 90-104.
12. D. Kourkoutas, G. Georgopoulos, A. Maragos, I. Apostolakis, **G. Tsekouras**, Irene S. Karanasiou, D. Papakonstantinou, E. Iliakis, M. Moschos: "New nonlinear multivariable model shows the relationship between central corneal thickness and HRTII topographic parameters in glaucoma patients", Clinical Ophthalmology, 2009, Issue 3, pp. 313-323.
13. **G. J. Tsekouras**, I.K. Hatzilau, J. Prousalidis: "A new pattern recognition methodology for classification of load profiles for ships electric consumers", Journal of Marine Engineering and Technology, No. A14, pp. 45-58, 2009.
14. F.D.Kanellos, **G. J. Tsekouras**, N.E. Mastorakis: "Wind Parks Equivalent Models using System Identification Techniques based on Linear Model Structures", WSEAS Transactions on Circuits & Systems, Vol. 8, Issue 8, August 2009, pp. 745-755.
15. **G. J. Tsekouras**, F.D.Kanellos, J.M. Prousalidis, I.K. Hatzilau: "STANAG 1008 design constraints for pulsed loads in the frame of the All Electrical Ships", Nausivios Chora, A journal in Naval Sciences and Technology, vol. 3, 2010, pp. 115-154.
16. **G. J. Tsekouras**, J. Koukoulis, N.E. Mastorakis: "An optimized neural network for predicting settlements during tunneling excavation", WSEAS Transactions on Systems, Vol. 9, Issue 12, December 2010, pp. 1153-1167.
17. G. H. Asimakopoulou, V. T. Kontargyri, **G. J. Tsekouras**, Ch. N. Elias, I. A. Stathopoulos: "A Fuzzy Logic Optimization Methodology for the Estimation of the Critical Flashover Voltage on Insulators", Electrical Power Systems Research, Vol. 81, Issue 2, February 2011, pp. 580-588.
18. F.D.Kanellos, **G. J. Tsekouras**, N.D. Hatziargyriou: "Wind Parks Equivalent ARX Models for the Simulation of Power Systems with Large Wind Power penetration, using System-Identification Theory", Electrical Power Systems Research, Vol. 81, Issue 2, February 2011, pp. 707-715.
19. F.D.Kanellos, **G. J. Tsekouras**, J. Prousalidis, I.K. Hatzilau: "An effort to formulate frequency modulation constraints in Ship-Electrical Systems with Pulsed Loads", IET Electrical Systems in Transportation, vol. 1, issue 1, 2011, pp. 11-23.
20. **G. J. Tsekouras**, M.A. Tsaroucha, A.D. Salis, C.D. Tsirekis, E. N. Dialynas, N.D. Hatziargyriou: "A Database System for Power Systems Customers and Energy Efficiency Programs", International Journal of Electrical Power and Energy Systems, vol. 33, 2011, pp.1220-1228.

21. F.D.Kanellos, **G. J. Tsekouras**, J. Prousalidis, I.K. Hatzilaou: "Effort to formulate voltage modulation constraints in ship-electrical systems with pulsed loads", IET Electrical Systems in Transportation, vol. 2, issue 1, 2012, pp. 18-28.
22. D. Kourkoutas, I.S. Karanasiou, **G.J. Tsekouras**, M. Moshos, E. Iliakis, G. Georgopoulos: "Glaucoma risk assesement using a non-linear multivariable regression method", IET Computer Methods and Programs in Biomedicine, vol. 10, issue 8, 2012, pp. 1149-1159.
23. **George J. Tsekouras**, Fotis D. Kanellos, John M. Prousalidis, Ioannis K. Hatzilaou: "Implemetation limitations of STANAG 1008 design constraints for pulsed loads", Nausivios Chora, A journal in Naval Sciences and Technology, vol. 4, 2012, pp. 110-135.
24. Fotis D Kanellos, John M Prousalidis, **George J. Tsekouras**: "Control system for fuel consumption minimization-gas emission limitation of full electric propulsion ship power systems", Proceedings of the Institution of Mechanical Engineers, Part M: Journal of Engineering for the Maritime Environment, Vol. 228(1), 2014, pp. 17-28 (published online 21-12-2012).
25. Fani E. Asimakopoulou, **George J. Tsekouras**, Ioannis F. Gonos, Ioannis A. Stathopulos: "Estimation of seasonal variation of ground resistance using Artificial Neural Networks", Electrical Power Systems Research, Vol. 94, 2013, pp. 113-121.
26. **G. J. Tsekouras**, F.D. Kanellos, N.E. Mastorakis, V. Mladenov: "Optimal operation of thermal electric power production system without transmission losses using Artificial Neural Networks based on augmented Lagrange multiplier method", ICAN-2013, Lecture Notes in Computer Science 8131, pp.586-594, Springer-Verlag, Berlin Heidelberg, September 2013.
27. **George J. Tsekouras**, Fotis D. Kanellos: "Optimal operation of ship electrical power system with energy storage system and photovoltaics: Analysis and application", WSEAS Transactions on Power Systems, Vol. 8, Issue 4, October 2013 (E-ISSN: 2224-350X), pp. 145-155.
28. A. P. Moschoudis, M.C. Filippou, **G.J. Tsekouras**, A.G.Kladas: "Dimensioning of electric propulsion motors for war-ships using finite element method", Journal of Computation & Modelling, vol. 3, no.4, 2013, pp. 11-24, που βασίστηκε στο 2nd AMIMS- International Conference on Applications of Mathematics and Informatics in Military Sciences, April 11-12, 2013, Athens, Greece.
29. K.K. Tafanidis, K.D. Taxeidis, **G. J. Tsekouras**, F. D. Kanellos: "Optimal operation of war-ship electric power system equipped with energy storage system", Journal of Computation & Modelling, vol. 3, no.4, 2013, pp. 41-60, που βασίστηκε στο 2nd AMIMS- International Conference on Applications of Mathematics and Informatics in Military Sciences, April 11-12, 2013, Athens, Greece.
30. P. Michalopoulos, C. Kalogrias, F.D. Kanellos, **G.J. Tsekouras**: "Electric machine experimental monitoring system based on Labview environment", Journal of Computation & Modelling, vol. 4, no.1, 2014, pp. 39-51, που βασίστηκε στο 2nd AMIMS- International Conference on Applications of Mathematics and Informatics in Military Sciences, April 11-12, 2013, Athens, Greece.
31. G. Tsamopoulos, N. Giannitsas, F. D. Kanellos, **G. J. Tsekouras**, I. S. Karanasiou: "Load estimation for war-ships based on pattern recognition methods", Journal of Computation & Modelling, vol. 4, no.1, 2014, pp. 207-222, που βασίστηκε στο 2nd AMIMS- International Conference on Applications of Mathematics and Informatics in Military Sciences, April 11-12, 2013, Athens, Greece.
32. K. Havenetidis, G.P. Paradisis, I.S. Karanasiou, **G.J. Tsekouras**: "The use of body motion as a tool for personal identification", Journal of Computation & Modelling, vol. 4, no.1, 2014, pp. 311-326, που βασίστηκε στο 2nd AMIMS- International Conference on Applications of Mathematics and Informatics in Military Sciences, April 11-12, 2013, Athens, Greece.
33. E.C. Nasioulas, **G. J. Tsekouras**, F.D.Kanellos: "Bottom-up reliability analysis of a base load diesel engine driven electric power unit", WSEAS Transactions on Power Systems, vol. 9, 2014, pp. 327-340.
34. A. P. Moschoudis, M.C. Filippou, **G. J. Tsekouras**, A.G. Kladas: "Geometry investigation of L.R.S. Synchronous Machine using FEM", Materials Science Forum Vol. 792, 2014, pp. 266-271, που βασίστηκε στο JAPMED, June 2013, Athens, Greece.

35. F.D.Kanellos, **G. J. Tsekouras**, N.D. Hatziaargyriou: "Optimal demand-side management and power generation scheduling in all-electric ship", IEEE Transactions on Sustainable Energy, Vol. 5, no. 4, October 2014, pp. 1166-1175.
36. F.D.Kanellos, **G. J. Tsekouras**, J. M. Prousalidis: "Onboard DC grid employing smart grid technology: challenges, state of the art and future prospects", IET Electrical Systems in Transportation, Vol. 5 (1), 1 March 2015, pp. 1-11pp. 1-11, doi: 10.1049/iet-est.2013.0056.
37. **G. J. Tsekouras**, F.D.Kanellos, John M. Prousalidis: "Simplified method for the assessment of ship electric power systems operation cost reduction from energy storage and renewable energy sources integration", IET Electrical Systems in Transportation, Vol. 5, Issue 2, 2015, pp. 61-69, doi: 10.1049/iet-est.2013.0011.
38. F. E. Asimakopoulou, V. T. Kontargyri, **G. J. Tsekouras**, I.G. Gonos, J.A. Stathopoulos: "Estimation of the earth resistance by Artificial Neural Network model", IEEE Transactions on Industry Applications, Vol. 51, no. 6, November/December 2015, pp. 5149-5158.
39. K. Havenetidis, G.P. Paradisis, I.S. Karanasiou, **G.J. Tsekouras**: "An investigation of an Artificial Neural Network method for personal identification using kinematic parameters from specific body parts", Journal of Applied Mathematics & Bioinformatics, vol. 5, no.3, 2015, pp. 125-138.
40. A. P. Moschoudis, **G. J. Tsekouras**, F.D.Kanellos, A.G. Kladas: "Particular SRM design methodology based on similarity theory, scale factors and FEM", Materials Science Forum Vol. 856, 2016, pp. 269-275, που βασίστηκε στο JAPMED, 5-8 July 2015, Sofia, Bulgaria.
41. P. Michalopoulos, F. Kanellos, **G. J. Tsekouras**, J. Prousalidis: "A Method for Optimal Operation of Complex Ship Power Systems Employing Shaft Electric Machines", IEEE Transactions on Transportation Electrification, Vol. 2, no. 4, December 2016, pp. 547-556.
42. D. Panagoulia, **G. J. Tsekouras**, G. Kousiouris: "A multi-stage methodology for selecting input variables in ANN forecasting of river flows", Global NEST Journal, Vol. 19, No. 1, 2017, pp. 49-57.
43. Panagiota M. Deligianni, **George J. Tsekouras**, Costas D. Tsirekis, Vassiliki T. Kontargyri, Fotis D. Kanellos, Panagiotis A. Kontaxis: "Techno-economic optimization analysis of an autonomous photovoltaic power system for a shoreline - electrode -station of HVDC link: Case study of electrode station on the small island of Stachtoroi for Attica-Crete interconnection", Energies, 2020, αριθμός άρθρου 13-05550.
44. **George J. Tsekouras**, Fotis D. Kanellos, Michalis Kontosoros: "Sensitivity Analysis of Optimal Power Dispatch for All-Electric Ship", WSEAS Transactions on Power Systems, vol. 16, 2021, αριθμός άρθρου 3, p.19, DOI: 10.37394/232016.2021.16.3.
45. **George J. Tsekouras**, Panagiota M. Deligianni, George A. Vokas, Antonios X. Moronis, Constantinos D. Tsirekis, Anastasios D. Salis, Christos N. Bolakis: "An Optimal Design of a Small Photovoltaic Plant with Cost Minimization based on a Real Database of PV Panels and Inverters", WSEAS Transactions on Circuits and Systems, vol. 20, 2021, αριθμός άρθρου 24, 227-243, DOI: 10.37394/23201.2021.20.26.
46. **George J. Tsekouras**, Panagiota M. Deligianni, Fotis D. Kanellos, Vassiliki T. Kontargyri, Panagiotis A. Kontaxis, Nikolaos M. Manousakis, Charalambos N. Elias: "Microbial fuel cell for wastewater treatment as power plant in smart grids: Utopia or Reality?", Front. Energy Res., 14 April 2022 |<https://doi.org/10.3389/fenrg.2022.843768>.
47. **George J. Tsekouras**, Vassiliki T. Kontargyri, John M. Prousalidis, Fotios D. Kanellos, Constantinos D. Tsirekis, Konstantinos Leontaritis, John C. Alexandris, Panagiota M. Deligianni, Panagiotis A. Kontaxis, Antonios X. Moronis: "Alternative Simplified Analytical Models for the Electric Field, in Shoreline Pond Electrode Preliminary Design, in the Case of HVDC Transmission Systems", Energies, vol. 15, issue 17, 2022, αριθμός άρθρου 15-06493. <https://doi.org/10.3390/en15176493>
48. Panayiotis Michalopoulos, **George J. Tsekouras**, Fotios D. Kanellos, John M. Prousalidis: "Optimal Selection of the Diesel Generators Supplying a Ship Electric Power System", Applied Sciences, vol. 12, issue 20, 2022, αριθμός άρθρου applsci-1954426. <https://doi.org/10.3390/app122010463>
49. Fotios D. Kanellos, **George J. Tsekouras**, Vassilis C. Nikolaidis, John M. Prousalidis: "Toward Smart Green Seaports: What should be done to transform seaports into intelligent and

environment-friendly energy systems?”, IEEE Electrification Magazine, vol. 11, issue 1, March 2023, pp. 33-42.

50. Nikolaos M. Manousakis, Panagiotis S. Karagiannopoulos, **George J. Tsekouras**, Fotios D. Kanellos,: “Integration of Renewable Energy and Electric Vehicles in Power Systems: A review”, Processes 2023, vol. 11, issue 5, no. paper 1544, p.27, <https://doi.org/10.3390/pr11051544>.
51. Vassiliki T. Kontargyri, **George J. Tsekouras**, John M. Prousalidis, Constantinos D. Tsirekis, Konstantinos Leontaritis, John C. Alexandris, Fotis D. Kanellos, Panagiota M. Deligianni, Panagiotis A. Kontaxis, Antonios X. Moronis: “Comparison of Different Configurations for Shoreline Pond Electrode Station for HVDC Transmission Systems—Part I: Electric Field Study for Frames of Linear Electrode Arrangement Based on a Simplified Analytical Model”, Applied Sciences vol. 13, issue 12, 2023, αριθμός άρθρου 13-07136, p.72. <https://doi.org/10.3390/app13127136>.

9.3. Publications in conference proceedings

1. C.D. Tsirekis, **G.J. Tsekouras**, N.D. Hatzargyriou, B.C. Papadias: “Investigation of Switching Transient Effects on Power Systems Including Wind Farms”, 2001 IEEE Porto Power Tech Conference, September 10th-13th 2001, Porto, Portugal (paper 0-7803-7139-9/01 -2001 IEEE)
2. **G. J. Tsekouras**, Ch. N. Elias, S. Kavatza, G. C. Contaxis: “A Hybrid Non-Linear Regression Midterm Energy Forecasting Method Using Data Mining”, 2003 IEEE Bologna Power Tech Conference, June 23th-26th 2003, Bologna, Italy (paper 0-7803-7967-5/03 -2003 IEEE)
3. I.K. Hatzilau, **G. J. Tsekouras**, J. Prousalidis, I.K. Gyparis: “On Electric Load Characterization and Categorization in Ship Electric Installations”, INEC-2008, 1-3 April 2008, Hamburg, Germany
4. V.T. Kontargyri, **G. J. Tsekouras**, A.A. Gialketsi, P.A. Kontaxis: “Comparison between artificial neural networks algorithms for the estimation of the flashover voltage on insulators”, 9th WSEAS International Conference on NEURAL NETWORKS (NN'08), Sofia, Bulgaria, May 2-4, 2008 (ISBN: 978-960-6766-56-5 - ISSN: 1790-5109 – pp. 225-230)
5. **G. J. Tsekouras**, F.D. Kanellos, V.T. Kontargyri, I.S. Karanasiou, A.D. Salis, N.E. Mastorakis: “Power system load profiles using a pattern recognition methodology”, 12th WSEAS CSCC Multiconference: 12th WSEAS International Conference on Circuits (CSCC '08), Heraklion, Crete Island, Greece, July 22-25, 2008 (ISBN: 978-960-6766-82-4 - ISSN: 1790-5117, pp. 25-31)
6. **G. J. Tsekouras**, J. Koukoulis, M.-A. Nikolinakou, N.E. Mastorakis: “Prediction of face settlement during tunneling excavation using artificial neural network”, WSEAS International Conference on Engineering Mechanics, Structures, Engineering Geology (EMESEG '08), Heraklion, Crete Island, Greece, July 22-25, 2008 (ISBN: 978-960-6766-88-6 - ISSN: 1790-2769, pp. 33-39)
7. D. Kourkoutas, **G. J. Tsekouras**, I.S. Karanasiou, N.E. Mastorakis, M. Moschos, E. Iliakis, G. Georgopoulos: “A non-linear multivariable regression method for the investigation of the correlation between central corneal thickness and HRTII optic Nerve Head Topographic Measurements in Glaucoma Patients”, WSEAS International Conference on Biomedical Electronics and Biomedical Informatics, (BEBI '08), Rhodes Island, Greece, August 20-22, 2008 (ISBN: 978-960-6766-93-0 - ISSN: 1790-5125, pp. 215-222)
8. **G. J. Tsekouras**, C.A. Anastasopoulos, F.D. Kanellos, V.T. Kontargyri, I.S. Karanasiou, A.D. Salis, N.E. Mastorakis: “A Demand Side Management Program of Vanadium Redox Energy Storage System for an Interconnected Power System”, WSEAS International Conference on Energy Planning, Energy Saving, Environmental Education, (EPESE '08), Corfu Island, Greece, October 26-28, 2008 (ISBN: 978-960-474-016-1 - ISSN: 1790-5095, pp. 94 - 100)
9. **G. J. Tsekouras**, F.D. Kanellos, V.T. Kontargyri, C.D. Tsirekis, I.S. Karanasiou, Ch.N. Elias, A.D. Salis, N.E. Mastorakis: “A comparison of Artificial Neural Networks algorithms for short term load forecasting in Greek intercontinental power system”, WSEAS International Conference on Circuits, Systems, Electronics, Control & Signal Processing, (CSECS '08), Puerto De La Cruz, Canary Islands, Spain, December 15-17, 2008 (ISBN: 978-960-474-016-1 - ISSN: 1790-5095, pp. 94 - 100)

10. **G. J. Tsekouras**, F.D. Kanellos, V.T. Kontargyri, C.D. Tsirekis, I.S. Karanasiou, Ch.N. Elias, A.D. Salis, P.A. Kontaxis, N.E. Mastorakis: "Short Term Load Forecasting in Greek Intercontinental Power System using ANNs: a Study for Input Variables", 10th WSEAS International Conference on Neural Networks, (NN '09), Prague, Czech Republic, March 23-25, 2009, (ISBN: 978-960-474-065-9 - ISSN: 1790-5109, pp. 75-81)
11. N.E. Mastorakis, **G. J. Tsekouras**: "Short Term Load Forecasting in Greek Intercontinental Power System using ANN: The Confidence Interval", Advanced Aspects of Theoretical Electrical Engineering Sozopol '2010, 19.09.10 – 22.09.10, Sozopol, Bulgaria, (II, pp. 134-140)
12. **G. J. Tsekouras**, N.E. Mastorakis, F.D. Kanellos, V.T. Kontargyri, C.D. Tsirekis, I.S. Karanasiou, Ch.N. Elias, A.D. Salis, P.A. Kontaxis, A.A. Gialketsi: "Short term load forecasting in Greek interconnected power system using ANN: Confidence Interval using a novel re-sampling technique with corrective Factor", WSEAS International Conference on Circuits, Systems, Electronics, Control & Signal Processing, (CSECS '10), Vouliagmeni, Athens, Greece, December 29-31, 2010 (ISBN: 978-960-474-262-2 - ISSN: 1792-7315, pp. 166 - 172)
13. J. M. Prousalidis, **G. J. Tsekouras**, F.D. Kanellos: "New challenges emerged from the development of more efficient electric energy generation units", IEEE Electric Ship Technologies Symposium (IEEE ESTS '11), Westin Alexandria, Alexandria, Virginia, USA, April 10-13, 2011 (1 - ISBN:- - ISSN:-, pp. 374-381)
14. C.D. Tsirekis, F.D. Kanellos, **G. J. Tsekouras**: "A methodology for the efficient application of controlled switching to current interruption cases in high-voltage networks", 15th WSEAS International Conference on Systems (CSCC '11), Corfu, Greece, July 14-16, 2011 (ISBN: 978-1-61804-023-7 - ISSN: 1792-4235, pp.429-434)
15. **G. J. Tsekouras**, F.D. Kanellos, Ch.N. Elias, V.T. Kontargyri, C.D. Tsirekis, I.S. Karanasiou, A.D. Salis, P.A. Kontaxis, A.A. Gialketsi, N.E. Mastorakis: "Short term load forecasting in Greek interconnected power system using ANN: A study for output variables", 15th WSEAS International Conference on Systems (CSCC '11), Corfu, Greece, July 14-16, 2011 (ISBN: 978-1-61804-023-7 - ISSN: 1792-4235, pp.440-445)
16. Ch.N. Elias, **G. J. Tsekouras**: "Midterm energy forecasting using fuzzy logic: A comparison of confidence interval estimation techniques", 15th WSEAS International Conference on Systems (CSCC '11), Corfu, Greece, July 14-16, 2011 (ISBN: 978-1-61804-023-7 - ISSN: 1792-4235, pp.446-452)
17. F. E. Asimakopoulou, E.A. Kourni, V. T. Kontargyri, **G. J. Tsekouras**, J.A. Stathopoulos: "Artificial neural network methodology for the estimation of ground resistance", 15th WSEAS International Conference on Systems (CSCC '11), Corfu, Greece, July 14-16, 2011 (ISBN: 978-1-61804-023-7 - ISSN: 1792-4235, pp.453-458)
18. F.D. Kanellos, **G. J. Tsekouras**, C.D. Tsirekis: "Simplified wind turbine for the simulation of frequency support mode of operation", 15th WSEAS International Conference on Systems (CSCC '11), Corfu, Greece, July 14-16, 2011 (ISBN: 978-1-61804-023-7 - ISSN: 1792-4235, pp.463-468)
19. **G. J. Tsekouras**, I.S. Karanasiou, F.D. Kanellos: "Classification of total load demand profiles for war-ships based on pattern recognition methods", 15th WSEAS International Conference on Communications (CSCC '11), Corfu, Greece, July 15-17, 2011 (ISBN: 978-1-61804-018-3, pp. 316 -322)
20. F. E. Asimakopoulou, **G. J. Tsekouras**, I.F. Gonos, J.A. Stathopoulos: "Artificial neural network approach on the seasonal variation of soil resistance", 7th Asian-Pacific International Conference on Lighting, Crown Plaza Chengdu, November 1-4, 2011, Chengdu, China (ISBN: - ISSN:-, pp. 6)
21. P. Michalopoulos, Ch. Kalogrias, F.D. Kanellos, **G. J. Tsekouras**: "Experimental investigation of energy saving using power electronics to operate ship induction electric motors", 1st MARINELIVE Workshop on Electric Machines & Power Converters, January 11-12, 2012, Athens, Greece (pp. 6)
22. A.A. Gialketsi, **G. J. Tsekouras**, F.D. Kanellos, J.M. Prousalidis: "Reducing pollutant emissions in ports: Optimized design & operation of the electrical power generation system, based on the classification of Ship Total Load Demand Profiles", INEC-2012, May 15-18 2012, Edinburgh UK

23. **G. J. Tsekouras**, F.D. Kanellos: “Reliability analysis of ship power system comprising cold ironing facility”, 1st MARINELIVE Conference on “All-Electric Ship”, June 4-5, 2012, Athens, Greece
24. A.A. Gialketsi, **G. J. Tsekouras**, F.D. Kanellos, J.M. Prousalidis: “Ship electric load estimation using pattern recognition methods for the classification of the total electric load demand curves”, 1st MARINELIVE Conference on “All-Electric Ship”, June 4-5, 2012, Athens, Greece
25. **G. J. Tsekouras**, F.D. Kanellos, C.D. Tsirekis, N.E. Mastorakis: “Optimal operation of thermal electric power production system without transmission losses: An alternative solution using Artificial Neural Networks based on external penalty functions”, AIKED-2013, Recent Advances in Knowledge Engineering and Systems Science, February 2013, Cambridge, UK
26. E.C. Nasioulas, **G. J. Tsekouras**, F.D. Kanellos: “Reliability analysis of a diesel engine driven electric power unit”, WSEAS-NAUN, August 28, 2013, Chania, Greece
27. E. P. Nicolopoulou, V.T. Kontargyri, I.F. Gonos, **G. J. Tsekouras**, E.C. Pyrgioti, I.A. Stathopoulos: “Experimental application of the similarity theory on scaled strip electrode configurations for the calculation of the grounding impedance”, ISH 2013 - 18th International Symposium on High Voltage Engineering, August 25-30, 2013, Hanyang University, Seoul, Korea
28. A. P. Moschoudis, **G. J. Tsekouras**, F.D. Kanellos: “Design of particular Electrical Machines using Similarity Theory and Scale Factors”, ICEM 2014 – 21st International Conference on Electrical Machines, September 2-5, Berlin, Germany, pp. 2486-2491
29. V.P. Androvitsaneas, **G. J. Tsekouras**, I.F. Gonos, I.A. Stathopoulos: “Design of an Artificial Neural Network for Ground Resistance Forecasting”, MEDPOWER 2014, November 3-5, 2014, Athens, Greece
30. P. Michalopoulos, **G. J. Tsekouras**, F.D. Kanellos, J. M. Prousalidis: “Optimal Economic Operation of a Complex Electric Power System with Shaft Generators”, ASHRAE 2015, May 22-24, 2015, Athens, Greece
31. G. Mpalagiannis, G. Tsamopoulos, C. Kalogrias, **G. J. Tsekouras**, F.D. Kanellos: “Application of Photovoltaics on Ship Electrical Power Systems: Utopia or Reality?”, ASHRAE 2015, May 22-24, 2015, Athens, Greece
32. F.D. Kanellos, J. M. Prousalidis, **G. J. Tsekouras**: “Optimal active power management in All Electric Ship employing DC grid technology”, 4th International Symposium & 26th National Conference on Operational Research, June 4-6, 2015, Chania, Greece
33. P. Michalopoulos, **G. J. Tsekouras**, J. M. Prousalidis, F.D. Kanellos: “Comparison of ship power system from an Optimal Economic Operation Point of View”, IEEE Electric Ship Technologies Symposium (IEEE ESTS ‘15), Washington DC USA, June 22-24, 2015
34. D. Spathis, E. Nicolopoulou, S. Dallas, J. Prousalidis, A. Kladas, E. Tatakis, I. Pallis, M. Beniakar, F. Kanellos, A. Sarigiannidis, I. Gonos, V. Kontargyri, **G. J. Tsekouras**, T. Kourmpelis, M. Korn: “Analysis of various power quality phenomena in a highly electrified vessel”, IEEE Electric Ship Technologies Symposium (IEEE ESTS ‘15), Washington DC USA, June 22-24, 2015
35. V. D. Marinou, **G.J. Tsekouras**, P. Michalopoulos N.E. Mastorakis: “PLC programming: The tutorial case of the automatic control system for ship fuel circuit in Hellenic Naval Academy”, Recent Advances in computer supported education, Proceedings of the 2nd international conference on Engineering and Technology Education (ETE’15), Seoul, South Korea, September 5-7, 2015
36. K. Gkotzia, **G. J. Tsekouras**, F. D. Kanellos, P. Michalopoulos, J.M. Prousalidis, N.E. Mastorakis: “Shaft-Generators in Ships: Techno-Economic Sensitivity Analysis Study”, 2016 Third International Conference on Mathematics and Computers in Sciences and in Industry (MCSI 2016), Chania, Crete, August 27-29, 2016, Proceedings MCSI 2016, pp. 20 – 25, 11 January 2017, Article number 7815115.
37. **G. J. Tsekouras**, F. D. Kanellos: “Ship to Shore Connection – Reliability Analysis of Ship Power System”, XXIIth International Conference on Electrical Machines (ICEM 2016), Lausanne, Switzerland, September 4-7, 2016.
38. Z. Soghomonian, J.M. Prousalidis, F. Kanellos, S.E. Dallas, D. Spathis, T. Kourmpelis, **G. J. Tsekouras**: “The Role of Efficiency of Electric Machinery On Green Shipping”, XXIIth

- International Conference on Electrical Machines (ICEM 2016), Lausanne, Switzerland, September 4-7, 2016.
39. Angelos P. Moschoudis, **George J. Tsekouras**, Antonios G. Kladas. “Optimal design of marine electric propulsion salient pole synchronous motor”, 2016 IEEE 17th Biennial Conference on Electromagnetic Field Computation (CEFC), Miami, FL, USA, 13-16 November 2016, pp. 1-1.
 40. V.P. Androvitsaneas , **G.J. Tsekouras** , I.F. Gonos , I.A. Stathopoulos: “ Seasonal Variation and Timeless Evolution of Ground Resistance”, 2018 IEEE International Conference on High Voltage Engineering and Application (ICHVE 2018), Athens, Greece, September 10-13, 2018.
 41. Angelos P. Moschoudis, Antonios G. Kladas, **George J. Tsekouras**. Optimal Design Methodology based on Sensitivity Analysis for Marine Electric Propulsion Salient Pole Synchronous Motors. JAPMED’11, 16-19 July 2019 BSU, Batumi, Georgia.
 42. Maria Batou, **George J. Tsekouras**, Antonios Moronis. Load Estimation of a Small Autonomous Island Power System using K-means Method. 4th International Conference Applied Mathematics, Computational Science and Systems Engineering, Athens, Greece, December, 2019, p. 6.
 43. Eleni P. Lamprinidi, Stamatios Orfanos-Pepainas, **George J. Tsekouras**, Fotios D. Kanellos, John M. Prousalidis, Andreas Vlachos. Preliminary Technoeconomical Evaluation of Cold Ironing. 7th International Conference on Mathematics and Computers in Sciences and Industry, Marathon Beach, Athens, Greece, August 22-24, 2022, p. 7, printed at Proceedings - 2022 7th International Conference on Mathematics and Computers in Sciences and Industry, MCSI 2022, 2022, pp. 89-95.
 44. Vasiliki-Eleftheria K. Sarantopoulou, Korina Konstantina Em. Drakaki, **George J. Tsekouras**, Anastasios D. Salis, Georgia-Konstantina Sakki, Andreas Efstratiadis, Dimitrios E. Papantonis, Vasilis Riziotis, George Caralis, Konstantinos X. Soulis. Optimal Operation of a Run-of-River Small Hydropower Plant with Two Hydro-Turbines. 7th International Conference on Mathematics and Computers in Sciences and Industry, Marathon Beach, Athens, Greece, August 22-24, 2022, p. 9, printed at Proceedings - 2022 7th International Conference on Mathematics and Computers in Sciences and Industry, MCSI 2022, 2022, pp. 80–88.
 45. Angelos P. Moschoudis, **George J. Tsekouras**, Fotios D. Kanellos, Antonios G. Kladas. Generator and Transformer Efficiency Study for the Design of a Run-of-River Small Hydropower Plant with One Hydro-Turbine. 7th International Conference on Mathematics and Computers in Sciences and Industry, Marathon Beach, Athens, Greece, August 22-24, 2022, p. 9, printed at Proceedings - 2022 7th International Conference on Mathematics and Computers in Sciences and Industry, MCSI 2022, 2022, pp. 71-79.
 46. Maria Fotopoulou, **George Tsekouras**, Vassiliki Kontargyri, Dimitrios Rakopoulos. “Optimal combination of photovoltaic systems and wind generators in the power network”, 8th IEEE International Conference on Mathematics and Computers in Sciences and Industry, Athens, Greece, October 14-16, 2023, p.5.

9.4. Publications in conference with abstract or publication in magazine

1. **G. J. Tsekouras**, A.G. Kladas, J.A. Tegopoulos: “Design and Operation Simulation of Permanent Magnet Generator Wind-Turbine”, ISEF’99 – 9th International Symposium on Electromagnetic Fields in Electrical Engineering, September 23th-25th, 1999, Pavia, Italy
2. F.E. Asimakopoulou, I.F. Gonos, **G. J. Tsekouras**, I. A. Stathopoulos: “A hybrid non-linear regression model for the estimation of the correlation between the electrical parameters of soil and the soil critical electric field”, GROUND 2008 & 3rd LPE, International Conference on Grounding and Earthing & 3rd International Conference on Lightning Physics and Effects, Florianopolis – Brazil, November 16-20, 2008 (p. 5)
3. F.E. Asimakopoulou, **G. J. Tsekouras**, I.F. Gonos, A.X. Moronis, I. A. Stathopoulos: “An Artificial Neural Network for estimating the ground resistance”, GROUND 2010 & 4th LPE, International Conference on Grounding and Earthing & 4th International Conference on Lightning Physics and Effects, Florianopolis – Brazil, November 16-20, 2010 (p. 4)
4. D. Panagoulia, I. Trichakis, **G. J. Tsekouras**: “Flow Forecasting via Artificial Neural Networks - A Study for Input Variables conditioned on atmospheric circulation”, European Geosciences Union, General Assembly 2012 (NH1.1 / AS1.16 – Extreme meteorological and hydrological events induced by severe weather and climate change), Vienna, Austria, 22-27 April 2012.

5. E. Nasioulas, **G. J. Tsekouras**, F. Kanellos: "Bottom-up reliability analysis of an intermittent load diesel engine driven electric power unit", 2nd MARINELIVE conference on "All-Electric Ship", February 12-13, 2013, Athens, Greece
6. E. P. Nicolopoulou, V. T. Kontargyri, I. F. Gonos, **G. J. Tsekouras**, E. C. Pyrgioti, I. A. Stathopoulos: "Lightning strikes on ships: an initial application of the similarity theory through scaled experiments", 2nd MARINELIVE conference on "All-Electric Ship", February 12-13, 2013, Athens, Greece
7. D. Panagoulia, **G. J. Tsekouras**: "Confidence intervals in Flow Forecasting by using artificial neural networks", European Geosciences Union, General Assembly 2014 (*NP3.1/CL6.12/SSS0.6* - Scales, scaling and extremes in the geosciences), Vienna, Austria, 27 April - 02 May 2014.
8. I.S. Karanasiou, **G.J. Tsekouras**: "Unsupervised classification of Event Related Potentials", 3rd International Conference on Technology Trends and Scientific Applications in Artillery and other Military Science, May 5-6, 2015, Athens (Hellenic Artillery School), Greece.
9. V.P. Androvistaneas, J.F. Gonos, J. Stathopoulos, **G.J. Tsekouras**: "Resistance ground estimation for vertical electrodes using special ground materials", CIGRE 2015 Athens, December 9-10 2015, pp. 10.
10. D. Panagoulia, **G. J. Tsekouras**, G. Kousiouris: "A multi-stage methodology for selecting input variables in ANN forecasting flows", European Geosciences Union, General Assembly 2016 (NP1.1 Artificial Intelligence, Cognitive models and Data Inversion In Geosciences), Vienna, Austria, 17-22 April 2016.

9.5. Publications in international symposiums

1. A.A. Gialketsi, J.M. Prousalidis, **G. J. Tsekouras**, I.S. Karanasiou: "Towards an All Electric Ship: Classification of load demand profiles for MEKO frigates based on pattern recognition methods", XIV MEKO user workshop, Athens, Greece, October 3-7, 2011
2. **G. J. Tsekouras**, F.D. Kanellos: "Analysis of ship electrical power system optimal operation equipped with photovoltaics and energy storage system", 3rd – 4th MARINELIVE workshop on "All-Electric Ship", November 21-23, 2012, Athens, Greece
3. E. P. Nicolopoulou, V. T. Kontargyri, I. F. Gonos, **G. J. Tsekouras**, E. C. Pyrgioti, I. A. Stathopoulos, J. M. Prousalidis: "Investigating the protection of ship electric grids against lightning strikes – The DEFKALION-THALIS project", 3rd – 4th MARINELIVE workshop on "All-Electric Ship", November 21-23, 2012, Athens, Greece
4. F. Kanellos, **G. J. Tsekouras**, J. Prousalidis: "Control system for efficiency optimization of All Electric Ship power systems", 5th – 6th MARINELIVE workshop on "All-Electric Ship", June 3-5, 2013, Athens, Greece
5. E. Nasioulas, **G. J. Tsekouras**, F. Kanellos: "Assessment of Ship Thermal-Electric Power Units Reliability", 5th – 6th MARINELIVE workshop on "All-Electric Ship", June 3-5, 2013, Athens, Greece
6. F. Kanellos, T. Kourmpelis, I. Georgakopoulos, J. Prousalidis, **G. J. Tsekouras**: "Establishing a simulation environment for DC-ship grid studies - Modelling of DC circuit breakers", 5th – 6th MARINELIVE workshop on "All-Electric Ship", June 3-5, 2013, Athens, Greece

9.6. Master Thesis

1. **George J. Tsekouras**: "Contribution in Load Forecasting", Internal thesis, School of Electrical and Computer Engineering, National Technical University of Athens, October 2002, pp. 109.
2. **George J. Tsekouras**, Manolis Thalassinakis: "Artificial neural networks application in power systems with emphasis on load forecasting and reliability", Course Msc thesis, School of Electrical and Computer Engineering, National Technical University of Athens, February 2001, pp. 118.
3. **George J. Tsekouras**, Manolis Thalassinaki, Petros Katsikas: "PROSIM model- Power systems reliability & operation cost", Course Msc thesis, School of Electrical and Computer Engineering, National Technical University of Athens, May 2000, pp. 263.
4. **George J. Tsekouras**: "Transmission power lines design with respect to thermal limits, voltage drop, static stability and capacitor use", Course Msc thesis, School of Electrical and Computer Engineering, National Technical University of Athens, June 2000, pp.33.

5. **George J. Tsekouras**: “Distribution power system: development and expansion”, Course Msc thesis, School of Electrical and Computer Engineering, National Technical University of Athens, June 2000, pp.61.
6. **George J. Tsekouras**: “Fast transient electromagnetic model for high voltage power system of Crete”, Course Msc thesis, School of Electrical and Computer Engineering, National Technical University of Athens, July 2000, pp.124.
7. **George J. Tsekouras**: “Load recording & estimation, Energy saving measures and billing evaluation for a chemical industry”, Course Msc thesis, School of Electrical and Computer Engineering, National Technical University of Athens, July 2000, pp.111.
8. **George J. Tsekouras**: “25 kW wind generator design based on circuit and field analysis”, School of Electrical and Computer Engineering, National Technical University of Athens, February 2000, pp. 220.

9.7. Diploma theses

1. **George J. Tsekouras**: “2.5 kW wind generator design based on circuit and field analysis”, School of Electrical and Computer Engineering, National Technical University of Athens, May 1999, pp. 200.
2. **George J. Tsekouras**: “Application of Artificial Neural Networks for tunnel issues”, School of Civil Engineering, National Technical University of Athens, July 2004, pp. 332.

9.8. Teaching books (see paragraph 7.2)

9.9. Scientific books or chapters

1. **George J. Tsekouras**, Anastasios D. Salis, Maria A. Tsaroucha, Irene S. Karanasiou: “Load time-series classification based on pattern recognition methods, 16th chapter in book “Pattern Recognition; Techniques, Technology and Applications” by Peng-Yeng Yin, I-Tech edition, Vienna, November 2008, pp. 361-433.
2. **George J. Tsekouras**, F. D. Kanellos, N. Mastorakis: “Short Term Load Forecasting in Electric Power Systems with Artificial Neural Networks”, 2nd chapter in book “Computational Problems in Science and Engineering” by N.M. Mastorakis, Aida Bulucea, G.J. Tsekouras, Springer edition, October 2015.

9.10. Recognition of Research Activity

1. Scopus (3/2/2024): Citations (without the citations of all co-authors): 1165, h-index: 17, g-index: 33
2. Scopus + Google scholar (28/9/2020): Citations (without the citations of all co-authors): 1753, h-index: 20, g-index: 40

10. HONORARY DISTICTIONS

As student in the School of Electrical and Computer Engineering of the National Technical University of Athens:

- Kondouleio Award as 1st graduated student from all students of NTUA schools
- NTUA Award as 1st graduated student from all students of School of Electrical and Computer Engineering - NTUA
- Pirforos Promitheus silver metal as 1st graduated student from all students of School of Electrical and Computer Engineering - NTUA
- Xrisovergio award as 1st graduated student from all students of School of Electrical and Computer Engineering - NTUA
- Kari award and metal for his academic transcript during third course year (1997-98),
- X. Papakiriakopolou Award for his grade in mathematics during second course year (1995-96),
- Greek Technical Chamber Award during 3th & 4th course years (1996-97, 1997-98),
- Greek Scholarship Foundation Award (IKY) during 3th course year (1996-97),

- Scholarship for Greek Scholarship Foundation during 3th, 4th & 5th course years (1995-96, 1996-97, 1997-98).

As post-graduate student in the School of Electrical and Computer Engineering of the National Technical University of Athens:

- Thomadio Award for scientific magazine

As student in the School of Civil Engineering of the National Technical University of Athens:

- NTUA Award as 1st graduated student from all students of School of Civil Engineering - NTUA
- Pirforos Promitheus silver metal as 1st graduated student from all students of School of Civil Engineering - NTUA
- Vogiatopoulos Award as 1st graduated student from all students of School of Civil Engineering - NTUA
- Xrisovergio award as 1st graduated student from all students of School of Civil Engineering - NTUA
- Thomaidi Award as 1st ranked student from all students of School of Civil Engineering - NTUA during 5th course year (2003-04),
- Greek Technical Chamber Award during 4th & 5th course years (2002-03, 2003-04),
- Greek Scholarship Foundation Award (IKY) during 4th course year (2002-03),
- Honorary Scholarship for Greek Scholarship Foundation during 4th course year (2002-03),
- Award of Dimitrios, Konstantinos & Basileios Kontodimos for his academic ranks during 9th course semester.

11. REVIEWER

In scientific magazines:

- WSEAS Transactions on Power Systems
- WSEAS Transactions on Systems
- WSEAS Transactions on Systems and Circuits
- WSEAS Transactions on Advances on Engineering Education
- WSEAS Transactions on Systems and Control
- WSEAS Transactions on Applied and Theoretical Mechanics
- European Transactions on Power Systems
- Journal of Engineering Science and Technology Review
- IEEE Transactions on Sustainable Energy
- IEEE Transactions on Power Systems
- IEEE Transactions on Smart Grids
- IEEE Transactions on Energy Conversion
- IEEE Transactions on Industrial Informatics
- IEEE Intelligence Systems
- IEEE Open Access
- Electric Power Systems Research
- IET Electrical Systems in Transportation
- Bulletin of Electrical Engineering and Informatics
- MDPI sustainability
- MDPI symmetry
- MDPI Electronics
- MDPI Energies
- International Transactions on Electrical Energy Systems
- Transportation Research Part D: Transport and Environment
- Advances in Power Electronics by Hidawi
- International Journal of Energy Engineering by World Academic Publishing Company
- Measurement by Elsevier
- Geotechnical and Geological Engineering
- Environmental Geotechnics
- Bulletin of Engineering Geology and the Environment

- Information Science
- Lukas Sigríst, Enrique Lobato, Ignacio Egido, Luis Rouco: “Island Power System”, CRC, 2015
- Editor in proceedings of WSEAS International Conference on Engineering Mechanics, Structures, Engineering Geology (EMESEG '08), Heraklion, Crete Island, Greece, July 22-25, 2008, entitled: «New Aspects of Engineering Mechanics, Structures, Engineering Geology.
- Editor of book “Dr. Xiaodong Zhuang, Prof. N. Mastorakis entitled: «Image Analysis Inspired by Physical Electro-Magnetic Fields, 2014, WSEAS press, pp. 165.
- Editor of book “N.M. Mastorakis, Aida Bulucea, G.J. Tsekouras: “Computational Problems in Science and Engineering” Springer, July 2015, pp. 483.
- Guest editor of Smart Grids by Frontiers in Energy Research
- Associate editor of WSEAS Transactions on Power Systems
- Associate editor of NAUN on International Journal of Neural Networks and Advanced Applications
- Special issue editor of “Processes” by MDPI on the subject entitled “Optimal design for Renewable Power Systems”
- Special issue editor of “Energies” by MDPI on the subject entitled “Development of Electrical Machines: Latest Studies and Future Prospects”

12. ORGANIZING OF CONFERENCES / SEMINARS

- Presentation of paper: «A non-linear multivariable regression model for midterm energy forecasting of power systems in seminars sessions by Forecasting Unit School of Electrical and Computer Engineering, National Technical University of Athens, 14-4-2008.
- Special session entitled:«Computational intelligence and simulation tools for modern power systems in 15th WSEAS International Conference on SYSTEMS, Corfu island, Greece, 16-7-2011.
- Member of scientific international conference committee «1st MARINELIVE Conference on “All Electric Ship”, Athens, Greece, 4/5 -6-2012.
- Plenary speaker: “High Voltage Direct Current Connections: Introduction & Connection to Mathematical Formulation”, 7th International Conference on Mathematics and Computers in Sciences and Industry, Marathon Beach, Athens, Greece, August 22, 2022, p. 68.
- Plenary speaker: “Basic Operation Principles for Small Hydro-Power Plants”, 4th International Conference on Environment, Chemical Engineering and Materials , Athens, Greece, December 28, 2022, p. 43.

13. PARTICIPATION IN ORGANIZATIONS

- Member of Technical Chamber of Greece
- Member of Greek Dipl. Electrical-Mechanical Engineers Association
- Member of Greek Dipl. Civil Engineers Association
- Senior Member of Institute of Electrical and Electronic Engineers (IEEE)
- Member of IEEE 45.1 Working group “IEEE Recommended Practice for Electrical Installations on Shipboard—Design”