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Last updated: December 2020

Research Interests

- Utility applications of power electronics
- Multilevel converters
- Power quality
- Micro/smart grids
- Renewable energy
- Energy storage technologies
- Flexible AC transmission systems (FACTS)

Education

2009-2012 **PhD in Electrical and Electronics Engineering**
Çukurova University, Adana, Turkey

1999-2001 **MSc in Electrical and Electronics Engineering**
University of Gaziantep, Gaziantep, Turkey
(*Visitor Scholar in the University of Strathclyde, UK*)

1995-1999 **BSc in Electrical and Electronics Engineering**
University of Gaziantep, Gaziantep, Turkey

Academic Positions

2017-present **Associate Professor**
Electrical and Electronics Engineering Department
Gaziantep University, Gaziantep, Turkey

2014-2017 **Assistant Professor**
Electrical and Electronics Engineering Department
Gaziantep University, Gaziantep, Turkey

2013-2014 **Assistant Professor**
Electrical and Electronics Engineering Department
Hasan Kalyoncu University, Gaziantep, Turkey

2011-2013	Instructor Electrical and Electronics Engineering Department Hasan Kalyoncu University, Gaziantep, Turkey
2008-2011	Instructor Electrical and Electronics Engineering Department Atılım University, Ankara, Turkey
2004-2007	Research Assistant Automation and Control Engineering Department University of Wuppertal, Wuppertal, Germany
1999-2004	Research Assistant Electrical and Electronics Engineering Department Gaziantep University, Gaziantep, Turkey

Teaching Experience

Given courses (in Gaziantep University for the last 2 years)

Electromechanical Energy Conversion I-II (undergrad)
 Power System Analysis (undergrad)
 High Voltage Techniques (undergrad)
 Selected Topics on Power Systems (grad)
 Power System Operation and Control (grad)
 Power System Dynamics and Control (grad)
 Advanced Static Power Conversion(grad)

Supervised Thesis

- 1) "Performance Evaluation of a Real-Time Ethernet Protocol Using Matlab-Simulink", Bogdan Ionica, Master thesis, University of Wuppertal, Department of Automation and Control Engineering, Co-supervisor, 2006.
- 2) "Intelligent Coordinated Control of Unified Power Flow Controller and Power System Stabilizer to Damp Inter-Area Oscillations in Multi-Machine Power Systems", Ali Dahham ABDULAZEEZ, Master thesis, University of Gaziantep, Graduate School of Applied and Natural Sciences, 2015.
- 3) "Modeling and Analysis of an Intelligent Controlled Micro Grid Power System", Youssef Haical, Master thesis, University of Gaziantep, Graduate School of Applied and Natural Sciences, 2016.
- 4) "Modeling and Intelligent Control of a Standalone PV-Wind-Diesel Hybrid System", Sardar Adil Mohammed Al-BARAZANCHI, Master thesis, University of Gaziantep, Graduate School of Applied and Natural Sciences, 2016.
- 5) "Modular Multi-level Converter Based High Voltage Direct Current Transmission System", Hakam Muayad Yousif, Master thesis, University of Gaziantep, Graduate School of Applied and Natural Sciences, 2017.
- 6) "Cascaded H-bridge Multilevel Converter Based D-STATCOM", Husnain UI Haseeb Kazmi, Master thesis, University of Gaziantep, Graduate School of Applied and Natural Sciences, 2017.
- 7) "Modeling and Simulation of Bazyan Gas Power Plant", Kameran Kamal Salman, Master thesis, University of Gaziantep, Graduate School of Applied and Natural Sciences, 2017.
- 8) "Single-phase Asymmetric Hybrid Multi-level Inverter", Mustafa Deniz, Master thesis, University of Gaziantep, Graduate School of Applied and Natural Sciences, 2018.
- 9) "Design And Control Of Offshore Wind Farm Connected to Main Grid With High Voltage Direct Current Transmission", Auwalu Ibrahim Ismail, Master thesis, University of Gaziantep, Graduate School of Applied and Natural Sciences, 2018.
- 10) "Comparison of Dynamic Performances of TCSC, SSSC and STATCOM on Inter-Area Oscillation Damping", Saif Taher Fadhil Alshammary, Master thesis, University of Gaziantep, Graduate School of Applied and Natural Sciences.

- 11) “*Preliminary Design and Analysis of Electrical Power Subsystem (EPS) for a Conceptual 1U CubeSat Mission*”, Ali Danladi, Master thesis, University of Gaziantep, Graduate School of Applied and Natural Sciences.
- 12) “*Three-Phase Modular Multilevel Converter Based Unified Power Flow Controller*”, Emile Njodzefon Wirsy, Master thesis, University of Gaziantep, Graduate School of Applied and Natural Sciences.
- 13) “*Design and Implementation of a Multilevel Cascaded H-bridge Inverter*”, Fatih Eroğlu, Master thesis, University of Gaziantep, Graduate School of Applied and Natural Sciences.
- 14) “*Comparison of Dynamic Performances of IPFC, UPFC and Back-To-Back HVDC Transmission on Local and Inter-Area Oscillation Damping*”, Mohammed Hamad, Master thesis, University of Gaziantep, Graduate School of Applied and Natural Sciences.
- 15) “*Design And Implementation Of A Low Cost, Low Loss Energy Quality Regulator For Energy Distribution Systems*”, Ahmet Eren, Master thesis, University of Gaziantep, Graduate School of Applied and Natural Sciences.
- 16) “*Design and Implementation of a Single-Phase Cascaded H-Bridge Multi-level Converter Based STATCOM*”, Hamed Atyia Soodi, PhD thesis, University of Gaziantep, Graduate School of Applied and Natural Sciences, 2019.
- 17) “*Design and Simulation of a Wind Energy Conversion System Based on Doubly Fed Induction Generator and Back-to-Back Modular Multilevel Converters*”, Ahmed Majeed Hajeem, Master thesis, University of Gaziantep, Graduate School of Applied and Natural Sciences, 2019.
- 18) “*Design of Modular Multi-level Converter and Permanent Magnet Synchronous Based Wind Energy Conversion System*”, Hakam Hekmat Abdulkhakeem, Master thesis, University of Gaziantep, Graduate School of Applied and Natural Sciences, 2019.
- 19) “*Design and Simulation of a Back-to-Back Modular Multilevel Converter Based Permanent Magnet Synchronous Generator Wind Energy System Having Ultracapacitor Energy Storage*”, Nissan Sabbar Thumail, Master thesis, University of Gaziantep, Graduate School of Applied and Natural Sciences, 2019.
- 20) “*Design and Control of Three Phase Grid Connected Photovoltaic System With 1 MW Power Capacity*”, Ercan Macit, Master thesis, University of Gaziantep, Graduate School of Applied and Natural Sciences, 2020.

Computer Skills

- PSCAD/EMTDC
- MATLAB

Editorship

- Assistant Editor-in-Chief, Turkish Journal of Electrical Engineering & Computer Sciences, *since Jan 07, 2020*
- Editorial Board Member, International Transactions on Electrical Energy Systems, *since 2019*

Refereeing (SCI/SCI-E)

- IEEE Transactions on Power Electronics
- IEEE Transactions on Industrial Informatics
- IEEE Transactions on Sustainable Energy
- IEEE Access
- IEEE Power Engineering Letters
- IET Generation, Transmission & Distribution
- Applied Energy
- Energy Conversion and Management
- International Journal of Electrical Power and Energy Systems
- Computer Applications in Engineering Education
- International Transactions on Electrical Energy Systems
- Electric Power Components and Systems
- Electrical Engineering
- Journal of Modern Power Systems and Clean Energy

- Energy Sources, Part A: Recovery, Utilization, and Environmental Effects
- Turkish Journal of Electrical Engineering & Computer Sciences
- Journal of the Faculty of Engineering and Architecture of Gazi University
- The Journal of Engineering Research
- Journal of Electrical Engineering & Technology
- Frontiers of Information Technology & Electronic Engineering

Projects

- Coordinator (08.01.2018-08.07.2019), "Tek-faz çok seviyeli kaskat h-köprü evirici tasarımı ve gerçekleştirilmesi", BAP Project, University of Gaziantep, No: MF.YLT.18.01
- Coordinator (2014-2015), "Gaziantep Üniversitesi'nin Bilişim Altyapısının İyileştirilmesi", BAP Project, University of Gaziantep, No: MF.14.11.

Publications

SCI / SCI-E Journal Papers

1. Fatih Eroğlu, Mehmet Kurtoğlu, **Ahmet Mete Vural**, "Bi-directional DC-DC converter based multilevel battery storage systems for electric vehicle and large-scale grid applications: A critical review considering different topologies, state-of-charge balancing and future trends", IET Renewable Power Generation, **accepted 23.10.2020**.
2. **Ahmet Mete Vural**, Emile Njodzefon Wirsy, "Three-Phase Modular Multilevel Converter based Unified Power Flow Controller", Engineering Science and Technology, an International Journal, Volume 23, Issue 2, April 2020, Pages 299-306.
3. Ali Osman Arslan, Fatih Eroğlu, Mehmet Kurtoğlu, **Ahmet Mete Vural**, "Optimal Selection of Arm Inductance and Switching Modulation for Three-Phase Modular Multilevel Converters in Terms of DC Voltage Utilization, Harmonics, and Efficiency", Journal of Power Electronics, Vol. 19, No. 4, pp. 922-933, July 2019.
4. Fatih Eroğlu, Mehmet Kurtoğlu, Ali Osman Arslan, **Ahmet Mete Vural**, "Harmonic Reduction Under Unbalanced Operating Conditions of PV Connected Cascaded H-bridge Multilevel Inverters Using Fault Tolerant Adaptive Phase-shifted Pulse Width Modulation", International Transactions on Electrical Energy Systems, Volume 29, Issue 4, April 2019.
5. Hamed Atyia Soodi and **Ahmet Mete Vural**, "Controller Parameter Optimization for a 13-Level Cascaded H-Bridge Medium Voltage Static Synchronous Compensator", International Transactions on Electrical Energy Systems, Volume 29, Issue 4, April 2019.
6. Mehmet Kurtoglu, Fatih Eroglu, Ali Osman Arslan, Ahmet Mete Vural, "Recent Contributions and Future Prospects of the Modular Multilevel Converters: A Comprehensive Review", International Transactions on Electrical Energy Systems, Volume 29, Issue 3, pp. 1-36, March 2019.
7. Hamed Atyia Soodi and **Ahmet Mete Vural**, "STATCOM Estimation Using Back-Propagation, PSO, Shuffled Frog Leap Algorithm, and Genetic Algorithm Based Neural Networks," Computational Intelligence and Neuroscience, vol. 2018, Article ID 6381610, 17 pages, 2018.
8. **Ahmet Mete Vural**, Kamil Çağatay Bayındır, Power flow modeling of Back-to-Back STATCOM: Comprehensive simulation studies including PV curves and PQ circles, Ain Shams Engineering Journal, Volume 8, Issue 3, September 2017, pp. 431-443.
9. **Vural, Ahmet Mete**: 'Self-capacitor voltage balancing method for optimally hybrid modulated cascaded H-bridge D-STATCOM', IET Power Electronics, vol. 9, issue 14, 2016, pp. 2731-2740.

10. **Ahmet Mete VURAL**, "Contribution of high voltage direct current transmission systems to inter-area oscillation damping: A review", *Renewable & Sustainable Energy Reviews*, vol 57, May 2016, pp. 892-915.
11. **VURAL, Ahmet Mete**, "Sirt-sirta bađlı yüksek gerilim dođru akım sistemleri ile bölgeler-arası salınımların sönuömlendirilmesi: Zaman bölgesi tabanlı tasarım", *Journal of the Faculty of Engineering and Architecture of Gazi University*, vol. 31, no. 3, 2016, pp. 763-771. 2016.
12. **Ahmet Mete VURAL**, "Interior-point based slack-bus free power flow solution for balanced islanded microgrids", *International Transactions on Electrical Energy Systems*, vol.26, issue 5, 2016, pp. 968-992.
13. **A.M. Vural**, K.C. Bayindir, "Quasi-multi-pulse voltage source converter design with two control degrees of freedom", *International Journal of Electronics*, vol. 102, issue 5, 2015.
14. **Vural A.M.**, Bayindir K.C., "Optimal IPFC damping controller design based on simplex method and self-tuned fuzzy damping scheme in a two-area multi-machine power system", *Turkish Journal of Electrical Engineering and Computer Sciences*, vol.23, No.5, pp. 1449-1464, 2015.
15. **Ahmet Mete Vural**, Kamil Cagatay Bayindir, "Hybrid Fuzzy-PI Control Scheme for a Quasi Multi-pulse Interline Power Flow Controller Including PQ Decoupling Feature", *Journal of Power Electronics*, vol. 12, no. 5, pp. 787-799. 2012.
16. **A. Mete Vural**, Mehmet Tümay, "Mathematical modeling and analysis of a unified power flow controller: A comparison of two approaches in power flow studies and effects of UPFC location", *International Journal of Electrical Power & Energy Systems*, vol.29, issue 8, pp. 617-629.
17. Mehmet Tümay, **A. Mete Vural**, K.L. Lo, "The effect of Unified Power Flow Controller (UPFC) location in power systems", *International Journal of Electrical Power & Energy Systems*, vol.26, issue 8, pp. 561-569.

Referred Journal Papers

1. Bahaulddin Makaiber Rija, Mohammed Khalil Hussain, **Ahmet Mete Vural**, "Microcontroller Based Automatic Power Factor Correction for Single-Phase Lagging and Leading Loads", *Engineering, Technology & Applied Science Research*, Vol. 10, Issue. 6, pp. 6515-6520, December 2020 (**E-SCI**)
2. Mustafa Deniz, Ali Osman Arslan, **Ahmet Mete Vural**, "Design and Experimental Verification of a Single-Phase Asymmetric Hybrid Multi-level Inverter", *European Journal of Engineering Science and Technology (EJEST)*, **accepted 26.10.2020**.
3. Aslan, M , Özpolat, A , İşçi, C , Erođlu, F , **Vural, A** . (2020). DESIGN AND MODELLING OF INTERNAL PERMANENT MAGNET MOTOR . *The International Journal of Energy and Engineering Sciences* , 5 (2) , 80-104.
4. Fadhil, S , Hamad, M , Arslan, A , **Vural, A** . (2020). COMPARISON OF DYNAMIC PERFORMANCES OF STATCOM, SSSC, IPFC AND UPFC ON INTER-AREA OSCILLATION DAMPING . *The International Journal of Energy and Engineering Sciences* , 5 (2) , 62-79.
5. Fatih Erođlu, Husnain Ul Haseeb Kazmi, **Ahmet Mete Vural**, "Modelling and Control of a Three-Level Diode-Clamped Medium Voltage Distribution Static Synchronous Compensator using Space

Vector Pulse Width Modulation", Gazi University Journal of Science, Vol. 33, No. 1, pp. 106-118 (2020). **(E-SCI)**

6. Ali Danladı, Mehmet Kurtoğlu, **Ahmet Mete Vural**, "Design, Analysis and Performance Evaluation of Electrical Power Subsystem based on Triple-Junctions Solar PV Cells and SEPIC for a Conceptual 1u Cubesat Mission", *EMITTER International Journal of Engineering Technology*, Vol. 7, No. 1, June 2019, pp. 275-300. **(E-SCI)**
7. **A. M. Vural**, A. İ. İsmail, "Modeling and Control of an Offshore Wind Farm Connected to Main Grid with HVDC Transmission", *Electrica*, vol. 18, no: 2, pp. 198-209, 2018. **(E-SCI)**
8. Power System Performance Enhancement Study Using A Single Phase Multi-Level Cascade Inverter Based STATCOM, Hamed Atyia Soodi, **Ahmet Mete Vural**, *Sci.Int.(Lahore)*, Volume 29, Issue 5, September-October 2017, pp. 1139-1145.
9. **Ahmet Mete Vural**, "PSCAD modeling of a two-level space vector pulse width modulation algorithm for power electronics education, *Journal of Electrical Systems and Information Technology*, Volume 3, Issue 2, September 2016, pp. 333-347.
10. **Ahmet M. Vural**, Kamil C. Bayindir, "Transient stability improvement using quasi-multi pulse BTB-STATCOM", *Advances in Energy Research*, Vol. 2, No. 1 (2014), pp. 47-59.
11. **A. Mete Vural**, K. Çağatay Bayındır, "Two-level Quasi Multi-Pulse Voltage Source Converter Based Generalized Unified Power Flow Controller", *International Review of Electrical Engineering*, Vol. 6, No. 5, pp. 2622-2637. **(SCOPUS)**
12. **Ahmet Mete Vural**, Kamil Çağatay Bayındır, "Transient Stability Enhancement of the Power System Interconnected with Wind Farm Using Generalized Unified Power Flow Controller with Simplex Optimized Self-tuning Fuzzy Damping Scheme", *International Review of Electrical Engineering*, Vol. 7, No. 4, pp. 5091-5107. **(SCOPUS)**
13. **A. M. Vural**, K. Ç. Bayındır, "Quasi Multi-Pulse Back-to-Back Static Synchronous Compensator Employing Line Frequency Switching 2-Level GTO Inverters", *International Journal of Electrical, Computer, Energetic, Electronic and Communication Engineering*, Issue 60, December 2011, pp. 1863-1874.
14. **A. Mete Vural**, K. Çağatay Bayındır, "Simplex Optimized Twelve-Pulse STATCOM Control System and LC Filter", *European Journal of Scientific Research* Vol.64, No.3, 2011, pp.415-425.
15. Mehmet Tümay, İlyas Eker, H.Fırat Aksoy, **A.Mete Vural**, M.Uğur Ünver, "Dynamic Performances of Adjustable Speed AC drives Part I: Dynamic Modelling and Implementation of PWM-Fed Synchronous and Asynchronous Machines", *Information Technology Journal*, July-September 2002, pp. 98-105.
16. Mehmet Tümay, İlyas Eker, H.Fırat Aksoy, **A.Mete Vural**, M.Uğur Ünver, "Dynamic Performances of Adjustable Speed AC drives Part II: Control and Simulation of AC Machines", *Information Technology Journal*, July-September 2002, pp. 106-117.

International Conference Papers

1. Youssef Haical, **Ahmet Mete Vural**, "Modeling and analysis of a fuzzy logic controlled microgrid operating in islanded mode", 2nd International Eurasian Conference on Science, Engineering and Technology, Eurasiansciencetech 2020, 07-09 October 2020, Gaziantep / Turkey, pp. 422-429.

2. Mehmet Kurtoğlu, Ali Osman Arslan, Fatih Eroğlu, **Ahmet Mete Vural**, "Comparison Of Different Submodule Topologies In Modular Multilevel Converters", 3rd International Symposium on Multidisciplinary Studies and Innovative Technologies, Ankara / Turkey, October 11-13, 2019.
3. Fatih Eroğlu, Mehmet Kurtoğlu, Ali Osman Arslan, **Ahmet Mete Vural**, "Performance Comparison Of Phase-Shifted Carrier PWM Techniques On Cascaded H-Bridge Multilevel Inverters With Unequal DC Voltages", 3rd International Symposium on Multidisciplinary Studies and Innovative Technologies, Ankara / Turkey, October 11-13, 2019.
4. Ali Osman Arslan, Fatih Eroğlu, Mehmet Kurtoğlu, **Ahmet Mete Vural**, "Optimal Carrier Frequency Swapping For PD-PWM In Modular Multilevel Converter", 3rd International Symposium on Multidisciplinary Studies and Innovative Technologies, Ankara / Turkey, October 11-13, 2019.
5. N. Sabbar and **A. M. Vural**, "Study on The Improvement of Permanent Magnet Synchronous Generator Based Wind Energy System by Integration of Ultracapacitor," 2019 4th International Conference on Power Electronics and their Applications (ICPEA), Elazig, Turkey, 2019, pp. 1-6.
6. Nissan SABBAR, **Ahmet Mete VURAL**, "Modeling and Case Studies of a Permanent Magnet Synchronous Generator Wind Energy System Having Back-to-Back Modular Multilevel Converters", 2. International Science and Academ/ic Congress 2019, 19-20 April 2019, Konya, Turkey, volume 1, pp. 546-562.
7. A. O. Arslan, F. Eroğlu, M. Kurtoğlu and **A. M. Vural**, "Effect of Arm Inductance on Efficiency of Modular Multilevel Converter," 2018 2nd International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT), October 19-21, 2018, Kızılcahamam, Ankara, pp. 1-4.
8. F. Eroğlu, M. Kurtoğlu, A. O. Arslan and **A. M. Vural**, "FPGA Implementation of PS-PWM for Single-Phase Thirteen-Level Cascaded H-Bridge Multilevel Inverters," 2018 2nd International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT), October 19-21, 2018, Kızılcahamam, Ankara, pp. 1-6.
9. M. Kurtoglu, A. O. Arslan, F. Eroglu and **A. M. Vural**, "Investigation of Traditional and Hybrid Modular Multilevel Converters under Various Voltage Levels," 2018 2nd International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT) October 19-21, 2018, Kızılcahamam, Ankara, pp. 1-4.
10. Hamed Atyia SOODI, **Ahmet Mete VURAL**, "Reactive Power Compensation In Three Phase Balance Loaded System By Using Statcom With Dispense Of The Intermediate Transformer", 3rd International Energy and Engineering Conference, UEMK 2018, 18-19 October 2018, Gaziantep University, TURKEY, pp. 411-425.
11. Ahmed Hachim, **Ahmet Mete Vural**, "Design And Simulation Of A Wind Energy Conversion System Based On Doubly Fed Induction Generator And Back To Back Modular Multilevel Converters", 3rd International Energy and Engineering Conference, UEMK 2018, 18-19 October 2018, Gaziantep University, TURKEY, pp. 402-410.
12. H. A. Soodi and **A. M. Vural**, "Single Phase Nine-Level Convertor Based STATCOM for Reactive Power Compensation and Power Factor Correction," 2018 International Conference on Engineering Technology and their Applications (IICETA), Al-Najaf, 2018, pp. 19-24.
13. Emile N. Wirsiy, **Ahmet Mete Vural**, "Three-Phase Modular Multilevel Converter (MMC) Inverter Simulation", 2nd International Students Science Congress, İzmir Katip Çelebi University, Turkey, May 4-5, 2018, pp 72-72.
14. **Ahmet Mete Vural**, Mohammed S. Hamad, "Comparison Of Dynamic Performances Of IPFC, UPFC And Back-To-Back HVDC Transmission On Local And Inter-Area Oscillation Damping In Power Systems", 2018 5th International Conference on Electrical and Electronics Engineering (ICEEE 2018), İstanbul, Turkey, May 3-5, 2018, pp. 31-35.
15. Saif T. Fadhil, **Ahmet M. Vural**, "Comparison of Dynamic Performances of Tcsc, Statcom, Sssc on Inter-Area Oscillations", 2018 5th International Conference on Electrical and Electronics Engineering (ICEEE 2018), İstanbul, Turkey, May 3-5, 2018, pp. 138-142.

16. Fatih Erođlu, Ali Osman Arslan, Mehmet Kurtođlu, **Ahmet Mete Vural**, "Generalized Adaptive Phase-Shifted PWM for Single-Phase Seven-Level Cascaded H-Bridge Multilevel Inverters", 2018 5th International Conference on Electrical and Electronics Engineering (ICEEE 2018), İstanbul, Turkey, May 3-5, 2018, pp. 7-12.
17. Ali Osman Arslan, Mehmet Kurtođlu, Fatih Erođlu, **Ahmet Mete Vural**, "Comparison of Phase and Level Shifted Switching Methods for a Three-Phase Modular Multilevel Converter", 2018 5th International Conference on Electrical and Electronics Engineering (ICEEE 2018), İstanbul, Turkey, May 3-5, 2018, pp. 91-96.
18. Mehmet Kurtođlu, Fatih Erođlu, Ali Osman Arslan, **Ahmet Mete Vural**, "Modular Multilevel Converters: A Study on Topology, Control and Applications", 2018 5th International Conference on Electrical and Electronics Engineering (ICEEE 2018), İstanbul, Turkey, May 3-5, 2018, pp. 79-84.
19. Hamed Atyia SOODI, **Ahmet Mete VURAL**, "Cascaded H-Bridges for Harmonic Current Compensation in Active Power Filter", International Conference on Engineering Technologies, (ICENTE17), 07-09 December 2017, Selçuk University, Faculty of Technology, Konya, pp.268-276.
20. **Ahmet Mete VURAL**, Hamed Atyia SOODI, "Single Phase Five-Level Inverter Based Statcom For Reactive Power Compensation", International Conference on Advances and Innovations in Engineering (ICAIE), Firat University, Elazığ, May 10-12, 2017, pp. 311-319.
21. H. M. Yousif and **A. M. Vural**, "Modeling of modular multilevel converter based high voltage direct current transmission system," 4th International Conference on Electrical and Electronic Engineering (ICEEE), 8-10 April 2017, Ankara, pp. 43-51.
22. K. K. Al-Dalwi and **A. M. Vural**, "Modeling and simulation of Bazyan Gas Power Plant," 4th International Conference on Electrical and Electronic Engineering (ICEEE), 8-10 April 2017, Ankara, pp. 163-169.
23. H.A. Abumeteir, **A.M. Vural**, "The determining factors of selecting energy storage systems for the renewable energy sources in the energy efficient building", The 6th International Engineering Conference on Energy Efficient Buildings, 25-26 October 2016.
24. Mustafa DENİZ, **A. Mete VURAL**, "Hybrid Asymmetric Multilevel Inverter Design", International Energy and Engineering Conference on October 13-14, 2016, Gaziantep University, Turkey, pp. 709-727.
25. **Ahmet Mete VURAL**, Ali Dahham ABDULAZEEZ, "Coordinated Design of Multi-PSS and UPFC to Damp Inter-Area Oscillations", International Conference on Natural Science and Engineering (ICNASE'16), March 19-20, 2016, Kilis 7 Aralık University, Turkey, pp. 2155-2164.
26. S. A. M. Al-Barazanchi and **A. M. Vural**, "Modeling and intelligent control of a stand-alone PV-Wind-Diesel-Battery hybrid system," International Conference on Control, Instrumentation, Communication and Computational Technologies (ICCICCT), 18-19 Dec 2015, Kumaracoil, pp. 423-430.
27. **A.Mete Vural**, K. Cagatay Bayindir, "Converter level modeling and control of quasi multi-pulse static synchronous series compensator, IEEE Symposium on Electrical and Electronics Engineering, EEESYM'2012, 24-27 June 2012, pp. 698-702.
28. **A.Mete Vural**, K. Cagatay Bayindir, "Understanding the steady-state modeling and analysis of power systems embedded with VSC-based FACTS devices", IEEE EnergyTech2012, 29-31 May 2012, Cleveland, Ohio, USA.
29. **A.M. Vural**, K. Cagatay Bayindir, "Optimization of Parameter set for STATCOM Control System", IEEE PES, Transmission and Distribution Conference and Exposition, 19-22 April 2010.
30. **A.M. Vural**, M. Tumay, "Steady State Analysis of Unified Power Flow Controller: Mathematical Modeling and Simulation Studies", IEEE Powertech-2003, Bologna-ITALY, 23-26 June 2003.

31. İlyas Eker and **A. Mete Vural** "Experimental on-line identification of a three-mass mechanical system", IEEE CCA-2003, Conference on Control Applications, June 23-25, 2003, İstanbul-TURKEY. Vol.1 , pp. 60-65.
32. **A. Mete Vural**, Mehmet Tümay, "Power Flow Analysis of Power System Embedded With UPFC Using Psasp Program", ELECO 2003, International Conference on Electrical and Electronics Engineering, Bursa / Turkey, 3-7 Dec. 2003, Paper code: A1-06, Electric and Control Proceedings, pp.22-26.
33. **M. Vural**, M. Tümay, "UPFC for Controlling Power Flow in Power Systems", ELECO 2001, International Conference on Electrical and Electronics Engineering, Bursa / Turkey, 7 - 11 November 2001, pp. 1-4.
34. **A.M. Vural**, İ. Eker, "Parameter Identification of a Permanent Magnet DC Motor: An Experimental Approach", ICEM 2004, 16. International Conference on Electrical Machines, Krakow, Poland, 5-8 September 2004, paper no. 104.

National Conference Papers

1. Ahmet Eren, **Ahmet Mete Vural**, "Enerji Dağıtım Sistemleri İçin Düşük Kayıplı Düşük Maliyetli Enerji Kalitesi Düzenleyicisi Tasarımı ve Benzetimi", Elektrik-Elektronik Mühendisliği Kongresi, EEMKON 2017, 16-18 Kasım 2017, İstanbul, pp. 110-117.
2. **A. Mete Vural**, K. Çağatay Bayındır, Mehmet Tümay, "12 Darbeli bir STATCOM için Denetleyici ve Filtre Parametrelerinin Simplex Yöntemi ile Optimizasyonu", 13. Elektrik, Elektronik, Bilgisayar, Biyomedikal Mühendisliği Ulusal Kongresi, 23-26 Aralık 2009, ODTÜ, Ankara, pp. 65-71.
3. **A. Mete Vural**, Mehmet Tümay, "Gelişmiş Güç Akış Denetleyicileri ile Donatılmış Güç Sistemlerinin Newton-Raphson Metodu ile Analizi", Elektrik-Elektronik-Bilgisayar Mühendisliği 10. Ulusal Kongresi, 18-21 Eylül 2003, İstanbul, pp. 63-66.
4. **A.Mete Vural**, İlyas Eker, "Least squares on-line identification of a dc motor", MBGAK'2003, Mühendislik Bilimleri Genç Araştırmacılar 1. Kongresi, İstanbul Üniversitesi Mühendislik Fakültesi, 17-23 Şubat 2003, İstanbul, pp. 183-190.
5. **A. Mete VURAL**, "Güç akış denetleyicilerinin enerji nakil hatlarındaki yerleşimlerinin güç sistemleri üzerine etkileri", ELECO 2002, Elektrik, Elektronik ve Bilgisayar Mühendisliği Sempozyumu ve Fuarı, Bursa, 18-22 Aralık 2002, pp. 1-5.
6. **A.M. Vural**, M. Tümay, T.T. Ma, "Güç Sistemlerindeki Güç Akışının UPFC ile Kontrolü", EMO 2001, Elektrik-Elektronik-Bilgisayar Mühendisliği 9. Ulusal Kongresi, Kocaeli, 19-21 Eylül 2001, pp. 196-199.