



The Engineering Faculty of Firat University, Elazig, Turkey
and
Applied Automation and Industrial Diagnostics Laboratory,
Faculty of Science and Technology, University of Djelfa, Algeria

Program

The 4th International Conference on Power Electronics and their Applications (ICPEA 2019)

Elazig 25-27 September 2019, Turkey

First Day
25/09/2019



08h – 9h00	Registration
09h00 – 09h30	<p>Opening Ceremony <i>Mimar Sinan Hall</i></p> <p><i>Prof. Sedat Sunter (General Chair)</i> <i>Prof. Abdellah Kouzou (General Chair)</i> <i>Prof. Mustafa Poyraz (Chair, Electrical -Electronics Engineering)</i> <i>Prof. Ahmet Özer (Dean, Engineering Faculty)</i> <i>Prof. Kutbeddin Demirdağ (Rector, Firat University)</i></p>
09h30 – 10h20	<p>Plenary Session 1 <i>İbn-i Sina Hall</i></p> <p>GRID-CONNECTED SOLAR PV INVERTERS-CHALLENGES AND REQUIREMENTS</p> <p><i>Prof. Atif Iqbal</i> <i>Qatar University, Doha, Qatar</i></p> <p>Chair : Prof. Abdellah Kouzou and Prof. Sedat Sünter</p>
10h20– 10h40	Coffee break - 1
10h40 – 11h30	<p>Plenary Session 2 <i>İbn-i Sina Hall</i></p> <p>SCADA DATA ANALYTICS FOR FAULT DETECTION AND DIAGNOSIS OF WIND TURBINES ENERGY SYSTEMS</p> <p><i>Prof. Fausto P. Garcia Marquez</i> <i>Universidad Castilla-La Mancha, Spain</i></p> <p>Chair : Prof. Hasan Güler</p>



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11h30 – 12h30 Poster Session 1

1. **ID: 56.** *Optimizing the placement of irregular shapes 2D Nesting.*
Ahmed Djilali (Algeria), Maliki Fouad (Algeria), Sihem Kouloughli (Algeria).
2. **ID: 112.** *Optimal PMUs Placement Using Hybrid PSO-GSA Algorithm.*
Abdelkader Azzeddine Laouid (Algeria), Mohamed Mounir Rezaoui (Algeria), Abdellah Kouzou (Algeria), Ridha Djamel Mohammedi (Algeria).
3. **ID: 76.** *Computation of the Axial and Radial forces in the Windings of the Power Transformer.*
Kamran Dawood (Turkey), Guven Komurgoz (Turkey), Fatih Isik (Turkey).
4. **ID: 73.** *Siting analysis of PV Water Pumping System Using GIS-Based fuzzy Analytic Hierarchy Process.*
Ammar Hachemi (Algeria), Seif-eddine Boukebbous (Algeria), Benbaha Noureddine (Algeria).
5. **ID: 98.** *Hardware Implementation of Digital PID Controller for DC-DC Boost Converter.*
Djamel Ounnas (Algeria), Dhaouadi Guiza (Algeria), Yousef Soufi (Algeria), Mahmoud Maamri (Algeria).
6. **ID: 36.** *A Simple, Fast and Robust Open-phase Fault Control Strategies for Five-Phase Induction Motor Drives with Parallel Converters without Common Mode Voltage.*
Saad Khadar (Algeria), Abdellah Kouzou (Algeria), Hani Benguesmia (Algeria).
7. **ID: 59.** *High voltage gain quasi Z source DC – DC converter contribution to photovoltaic systems.*
Seif Eddine Boukebbous (Algeria), Noureddine Benbaha (Algeria), Hachemi Ammar (Algeria), Abdelhak Bouchakour (Algeria), Djallel Kerdoun (Algeria).
8. **ID: 103.** *Design of Integer Order Approximation Fractional Order Controller with for Automatic voltage regulation system.*
Burak Yildirim (Turkey), Mahmut Temel Özdemir (Turkey), İbrahim Eke (Turkey).



12h45 – 14:00

Lunch



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14h00 – 15h30 **Oral Session 1 Yusuf Has Hacip Hall**

Chairs : Prof. Atif Iqbal and Prof. Hasan Güler



1. **ID: 09. An improved sequence based control strategy for three phase grid interfaced inverter systems.**
Doğan Çelik (Turkey), Mehmet Emin Meral (Turkey).
2. **ID: 47. Elimination of Double Line Frequency in Single-Phase Interface Converters in Renewable Energy Sources by Designing Proportional Controller.**
Golaleh Zarei (Iran), Ebrahim Babaei (Iran), Mohammad Bagher Bannae Sharifian (Iran).
3. **ID: 104. Investigation of Load Frequency Control with Optics Inspired Optimization Algorithm in a Four Area Power System with HVDC Connection Line.**
Süleyman Yildiz (Turkey), Burak Yildirim (Turkey), Mahmut Temel Özdemir (Turkey).
4. **ID: 33. Contribution of Vehicle-to-Grid system for frequency regulation on microgrid.**
Karim Fellah (Algeria), Mounir Khiaat (Algeria), Rosa Abbou (France).
5. **ID: 26. NPC three-level four-legged Shunt Active Power Filter under Non-Sinusoidal Power Supply Conditions TRMS.**
Mohamed Elbar (Algeria), Abdelkader Beladel (Algeria), Abdellah Kouzou (Algeria), Ahmed Hafaiifa (Algeria).



14h00 – 15h30 **Oral Session 2 Farabi Hall**

Chairs : Prof. Ebrahim Babaei and Prof. Eyyüp Öksüztepe

1. **ID: 77. The Effects of HVDC Connection Line on Small Signal Stability in Four-Area Power System.**
Burak Yildirim (Turkey), Süleyman Yildiz (Turkey), Mahmut Temel Özdemir (Turkey).
2. **ID: 78. FPGA Implementation of SPWM for Cascaded Multilevel Inverter by Using XSG.**
Hasan Hatas (Turkey), Naci Genc (Turkey), Ali Mamizadeh (Turkey).
3. **ID: 88. Modeling and Control of Multi-Terminal Direct Current with Voltage Margin Control Strategy.**
Moussa Belgacem (Algeria), Khatir Mohamed (Algeria), Mohammed Abdeldjalil Djehaf (Algeria), Riyadh Bouddou (Algeria), Sid Ahmed Zidi (Algeria).
4. **ID: 113. Performance Analysis of Shoot Through Control Approaches for Z-source Inverters.**
Ali Teta (Algeria), Abdellah Kouzou (Algeria), Mohamed Mounir Rezaoui (Algeria), Ahmed Hafaiifa (Algeria).
5. **ID: 75. A New Approach for a Single-Phase Matrix Converter Operating as Frequency Changer.**
Neslihan Pirinççi (Turkey), Ahmet Orhan (Turkey)



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15h30 – 16h30 Poster Session 2

1. **ID: 86.** *Level Set Model driven by Signed Pressure Force function For image segmentation.*
Messaouda Larbi (Algeria), Abdelghani Rouini (Algeria), Zoubeida Messali (Algeria), Samira Larbi (Algeria).
2. **ID: 11.** *An Architecture for Two Ambient Energy Sources.*
Ridvan Umaz (Turkey), Yakup Şahin (Turkey).
3. **ID: 51.** *A Novel PWM DC–DC Boost Converter with Reduced Voltage Across Filter Capacitance*
Yakup Şahin (Turkey), Ridvan Umaz (Turkey).
4. **ID: 96.** *Active Surge Control of the Recycle Compression System By Hybrid Adaptive Controller.*
Yacine Aribi (Algeria), Razika Zamoum Boushaki (Algeria), Hocine Loubar (Algeria).
5. **ID: 72.** *Experimental Emulation of a Small Wind Turbine Under Operating Modes Using DC Motor.*
Dekali Zouheyr (Algeria), Lotfi Baghli (Algeria), Abdelmadjid Boumediene (Algeria).
6. **ID: 117.** *A two-stage sizing method of standalone solar lighting systems.*
Housseem Zerari (Algeria), Lotfi Messikh (Algeria), Abdellah Kouzou (Algeria), Salah Eddine Bekhouche (Algeria), Salim Ouchtati (Algeria), Abdelhakim Chergui (Algeria).
7. **ID: 108.** *Modeling and Control of UAV Quadrotor.*
Razika Zamoum Boushaki (Algeria), Yacine Aribi (Algeria), Hocine Loubar (Algeria), Younes Hamza (Algeria), Abdellah Kouzou (Algeria).
8. **ID: 114.** *Modeling and simulation of three control techniques for UAV quadrotor.*
Houcine Loubar (Algeria), Razika Boushaki Zamoum (Algeria), Yacine Aribi (Algeria), Azouaou Ait Said (Algeria), Sedik Dorbane (Algeria), Abdellah Kouzou (Algeria).



16h10 – 16:30

Coffee Break - 2



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16h30 – 18h00 **Oral Session 3 Yusuf Has Hacip Hall**

Chairs : Prof. Jaroslaw Guzinski and Prof. Sedat Sünter



1. **ID: 10. Design and Analysis of Dual Level Boost Converter Based Transformerless Grid Connected PV System for Residential Applications.**
Mustafa İnci (Turkey).
2. **ID: 32. Power Management of a Single DC source and Cascaded Seven Levels Inverter in Hybrid System.**
Said Khoudiri (Algeria), Fateh Benchabane (Algeria), Khoudiri Abdelkader (Algeria), Abdellah Kouzou (Algeria).
3. **ID: 42. A Modified Lyapunov-Function Based Control Scheme for Two-Leg Three-Level T-Type Grid-Tied Inverter with LCL Filter.**
Necmi Altin (Turkey), Saban Ozdemir (Turkey), Ibrahim Sefa (Turkey), Hasan Komurcugil (Turkey).
4. **ID: 97. Implementation of Incremental Conductance Based MPPT Algorithm for Photovoltaic System.**
Guiza Dhaouadi (Algeria), Djamel Ounnas (Algeria), Yousef Soufi (Algeria), Salah Chenikhe (Algeria).
5. **ID: 116. Smart Plug Design for Demand Side Management Program.**
Imed Ben Dhaou (KSA).



16h30 – 18h00 **Oral Session 4 Farabi Hall**

Chair : Dr. Yaman Akbulut

1. **ID: 43. Design and Modeling of Single Phase Grid Connected Fuel Cell System.**
Mustafa İnci (Turkey).
2. **ID: 52. Grey Wolf Optimization Based MPPT Algorithm for Solar PV System with SEPIC Converter**
Koray Atici (Turkey), Ibrahim Sefa (Turkey), Necmi Altin (Turkey)
3. **ID: 65. Performance Results of Photovoltaic/Fuel Cell Based Hybrid Energy System under Variable Conditions.**
Mehmet Selim Aygen (Turkey), Mustafa İnci (Turkey)
4. **ID: 83. Analyzing and Comparing of Variable and Constant Switching Frequency Flyback DC-DC Converter.**
Mehmet Can Taneri (Turkey), Naci Genc (Turkey), Ali Mamizadeh (Turkey)
5. **ID: 99. Frequency-Domain Modeling and Tustin Discretization Method based Controlling of DC Step-Up Chopper**
Muhammad Talha (Pakistan), Ishtiyahq Ahmed Makda (Pakistan).



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16h30 – 18h00 **Oral Session 5 Mimar Sinan Hall**

Chair : Prof. Hasan Güler

1. **ID: 67.** *Power Generation Potential of Small Wind Turbine in Elazig Province, Turkey.*
Ahmet Yıldız (Turkey), Beşir Dandıl (Turkey).
2. **ID: 81.** *Wind Power Plant Application With Permanent Magnet Synchronous Generator.*
Soner Çelikdemir (Turkey), Mehmet Özdemir (Turkey).
3. **ID: 82.** *Permanent Magnet Synchronous Generator Wind Power Plant Study.*
Soner Çelikdemir (Turkey), Mehmet Özdemir (Turkey).
4. **ID: 64.** *Study On The Improvement of Permanent Magnet Synchronous Generator Based Wind Energy System By Integration of Ultracapacitor.*
Nissan Sabbar (Turkey), Ahmet Mete Vural (Turkey).
5. **ID: 71.** *Optimization of Permanent Magnet Synchronous Motor Design by Using PSO.*
Öznur Dal (Turkey), Merve Yildirim (Turkey), Hasan Kurum (Turkey).
6. **ID: 118 .** *Design of a High-Speed PMSM for Flywheel Systems.*
Güllü Boztaş (Turkey), Ömur Aydoğmuş (Turkey).



19h00	Dinner
	Culture Park Music Activity will be presented by : Municipality Kürsübaşı Team

End of the First Day
25/09/2019



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Second Day
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<p>08h30 – 09h30</p>	<p>Plenary Session 3 <i>İbn-i Sina Hall</i></p> <p>VARIABLE SPEED AC DRIVES WITH INVERTER OUTPUT FILTERS</p> <p><i>Professor Jaroslaw Guzinski</i> Gdansk University of Technology, Poland</p> <p>Chairs : Prof. Atif Iqbal and Prof. Sedat Sünter</p>
<p>09h40- 10h40</p>	<p>Plenary Session 4 <i>İbn-i Sina Hall</i></p> <p>TRANSITION TO A SUSTAINABLE LOW CARBON SUPER SMART SOCIETY</p> <p><i>Professor Kamal Mohammedi</i> MESONexusTeam, Modelling, Simulation and Optimization of Alternative and Sustainable Systems, Faculty of Engineering, M. Bougara University, Boumerdès, Algeria</p> <p>Chair : Prof. Arif Gülten</p>
<p>10h40 – 11h00</p>	<p>Coffee break -3</p>
<p>11h10 – 12h10</p>	<p>Plenary Session 5 <i>İbn-i Sina Hall</i></p> <p>INFLUENCE OF FIFTH GENERATION (5G) TECHNOLOGIES ON SMART GRID DISTRIBUTED SERVICES</p> <p><i>Professor Zoran Bojkovic</i> University of Belgrade, Serbia</p> <p>Chair : Prof. Youcef Soufi and Prof. Turgay Kaya</p>

12h20 – 14:00 **Lunch**



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14h00 – 15h30 **Oral Session 6 Yusuf Has Hacip Hall**

Chair : Prof. Youcef Soufi. and Prof. Muhsin Tunay Gençoğlu



1. **ID: 15.** *High Performance Vector Control of Permanent Magnet Synchronous Motor Fed by Direct SVM Matrix Converter.*
Abdelhakim Dengouga (Algeria), Amal Dengouga (Algeria).
2. **ID: 35.** *Effect of an Inter-Turn Short Circuit Fault on Performance of Different Control Techniques : Application to squirrel-cage induction machines.*
Saad Khadar (Algeria), Abdellah Kouzou (Algeria), Hani Benguesmia (Algeria).
3. **ID: 38.** *Efficiency Improvement of Robust-Direct Torque Control for An Induction Motor Drive.*
Abdelkarim Ammar (Algeria), Tarek Ameid (Algeria), Younes Azzoug (Algeria), Aissa Kheldoun (Algeria), Brahim Metidji (Algeria).
4. **ID: 44.** *Design and Implementation of A New Topology for Multilevel Inverter with Reduced Count of IGBTs and DC Voltage Sources Based on Developed H-Bridge.*
Mohammadamin Aalami (Iran), Ebrahim Babaei (Iran), Saeid Ghassem-Zadeh (Iran).
5. **ID: 69.** *Estimation of Parameters for Surface Mounted Permanent Magnet Synchronous Motors.*
Hüseyin Yüce Kürüm (Turkey), Eyyüp Öksüztepe (Turkey), Erhan Akın (Turkey).
6. **ID: 87.** *Diagnosis and Comparison between Stator Current Analysis and Vibration Analysis of Static Eccentricity Faults in The Induction Motor.*
Wissam Dehina (Algeria), Mohamed Boumechraz (Algeria), Frédéric Kratz (France), Jacques Fantini (France).





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14h00 – 15h30 *Oral Session 7 Farabi Hall*

Chair : Prof. Jaroslaw Guzinski and Prof. Taner Göktaş

- ID: 45.** *Analysis and Simulation of Quasi -Source with Low Voltage Stress on Capacitors and Diodes.*
Darioush Alizadeh (Iran), Ebrahim Babaei (Iran), Vida Ranjbarizad (Iran).
- ID: 46.** *A New Topology for Cascaded Multilevel Inverter to Generate More Voltage Levels with a Reduced Count of Power Switches.*
Vida Ranjbarizad (Iran), Mohammadamin Aalami (Iran), Ebrahim Babaei (Iran).
- ID: 55.** *Comparative Studies of DC Motor FOPID Control with Optimal State Estimation Using Kalman Filter.*
Zhengmao Ye (USA), Hang Yin (USA), Adrian Meng (Canada).
- ID: 58.** *Voltage Balancing of Diode-Clamped Multilevel Converter by Using Modified Quasi-Z-Source Network.*
Ali Ebrahimi (Iran), Ebrahim Babaei (Iran), Vida Ranjbarizad (Iran).
- ID: 68.** *Implementation of an FPGA-Based Motor Control with Low Resource Utilization.*
Omur Aydogmus (Turkey), Gullu Boztas (Turkey).
- ID: 54.** *Module Level Global Maximum Power Point Tracking Strategy.*
Mustafa Engin Basoğlu (Turkey).



15h30 – 15:45

Coffee Break - 4



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Second Day
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15h45 – 17h00 Oral Session 8: Yusuf Has Hacip Hall

Chair : Dr. Duygu Kaya



1. **ID: 60.** *The impact of hall effect sensor filtered signals on the in-wheel motor tire of an electric vehicle.*
Taoufik Chaouachi (Tunisia), Lassaad Sbita (Tunisia).
2. **ID: 61.** *The use of the filters and their effect on the electrical performance of electric vehicle's BLDC motor.*
Taoufik Chaouachi (Tunisia), Lassaad Sbita (Tunisia).
3. **ID: 93.** *Design and Analysis of a 3.3kW Inductive Power Transfer System.*
Mehmet Zahid Erel (Turkey), Kamil Cagatay Bayindir (Turkey), Mehmet Timur Aydemir (Turkey).
4. **ID: 94.** *Analysis and Design of the Capacitive Power Transfer Applications for Low Power and High Power Cases.*
Mehmet Zahid Erel (Turkey), Kamil Cagatay Bayindir (Turkey), Mehmet Timur Aydemir (Turkey).
5. **ID: 101.** *A Study on Fuel Cell Electric Unmanned Aerial Vehicle.*
Kemal Kaya (Turkey), Yakup Hameş (Turkey).



15h45 – 17h00 Oral Session 9 Farabi Hall

Chair : Prof. Hüseyin Altun

1. **ID: 50.** *Weighing Multiple Model Adaptive Control of Time-Variant Input Delay SISO Systems using Fuzzy Rule Switching.*
Peyman Abbasi (Iran), Mohammad Ali Nekoui (Iran), Pouya Abbasi (Iran).
2. **ID: 53.** *Design Analysis and Verification of PMSM Motor For Dishwasher Machine*
Yakup Akyun (Turkey), Hayatullah Nory (Turkey), Mohamad Zouhair Talas (Turkey), Hasan Kurum (Turkey).
3. **ID: 57.** *Modeling and Simulation of Magnetizing Inrush Current in A Single-Phase Transformer.*
Hüseyin Altun (Turkey), Sedat Sunter (Turkey), Ömur Aydoğmuş (Turkey).
4. **ID: 66.** *Design and Optimization with Genetic Algorithm of Double Rotor Axial Flux Permanent Magnet Synchronous Motor (TORUS Type) for Electrical Vehicles.*
Rüya Akinici (Turkey), Mehmet Polat (Turkey).
5. **ID: 80.** *Electromagnetic and Thermal Analysis of a Domestic Induction Cooker Coil.*
Nur Elif Topuz (Turkey), Gamze Odabas (Turkey), Ünsal Kaya (Turkey), Güven Komurgoz (Turkey).
6. **ID: 110.** *Self Data Transfer Configuration to enhance power efficiency in IoT application.*
Feten Teber (Tunisia), Halim Kacem (Tunisia).



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15h45 – 17h00 **Oral Session 10: Mimar Sinan Hall**

Chair : Dr. Barış Karakaya



1. **ID: 92. Theoretical Investigation on Barrier Effect on Point-Plane Air Gap BV.**
Abdelghani Rouini (Algeria), Abdellah Kouzou (Algeria), Messaouda Larbi (Algeria), Ahmed Hafaifa (Algeria).
2. **ID: 100. Fuzzy Logic Based Sinter RDI Optimization.**
Ahmet Beşkardeş (Turkey), Yakup Hameş (Turkey), Serkan Çevik (Turkey), Kemal Kaya (Turkey), Ersin Özdemir (Turkey).
3. **ID: 111. Effect of Grey Wolf Optimization on THD of 3-Phase Voltage Source Inverter with Selective Harmonic Elimination Base.**
Gamze Nalçacı (Turkey), Muammer Ermiş (Turkey).
4. **ID: 89. A Hardware Dynamic Pricing based Energy Management System.**
Rana M Ahmed (Egypt), Motaz Amer (Egypt).
5. **ID: 03. Realization of a low cost and fast boost converter based MPPT for PV system.**
Mustafa Engin Başoğlu (Turkey).



17 h 05 – 18h 15	<p><i>Hall: Yusuf Has Hacip</i></p> <p>Workshop On CONTEMPORARY TOPICS ON SMART GRIDS</p> <p><i>Professor Zoran Bojkovic</i> University of Belgrade, Serbia</p> <p>Chair : Prof. Sedat Sünter</p>
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19h00	<p>Dinner</p> <p>FÜ Cultural Center</p> <p>Music Activity will be presented by: Conservatory Music graduate Students (Aygun Cam and Team)</p>
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End of the Second Day
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Third Day
27/09/2019

09h00 – 17h00	Social Excursion Visiting Harput and Keban Dam
	Tea-Coffee Break and Lunch During Excursion



Social Excursion Program

(Available for Registration on Desk)



9:00	<i>Departure to Keban Town</i>
9:45	<i>Visiting Çırçır Waterfall</i>
10:15	<i>Visiting Keban Dam (Turkey's second biggest dam)</i>
12:00	<i>Lunch at Fırat Alabalık Restourant and Tea-Coffee break</i>
12:20	<i>Moving to Mosque for those Who want to attend the Friday Prayer</i>
13:30	<i>Departure from Keban town to old city Harput town</i>
14:30	<i>Visit for Sara Hatun Mosque, Turkish Hammam, Local Handicrafts Bazaar</i>
15:00	<i>Visiting Ulu Mosque (Great Mosque)</i>
15:30	<i>Visiting Harput Castle</i>
16:00	<i>Visiting “Şefik Gül “ House which is redecorated as old Harput House - Catering (Patiala, ayran and tea)</i>
17:00	<i>View of the city from the Balak Gazi</i>
18:00	<i>Departure to Hotels</i>

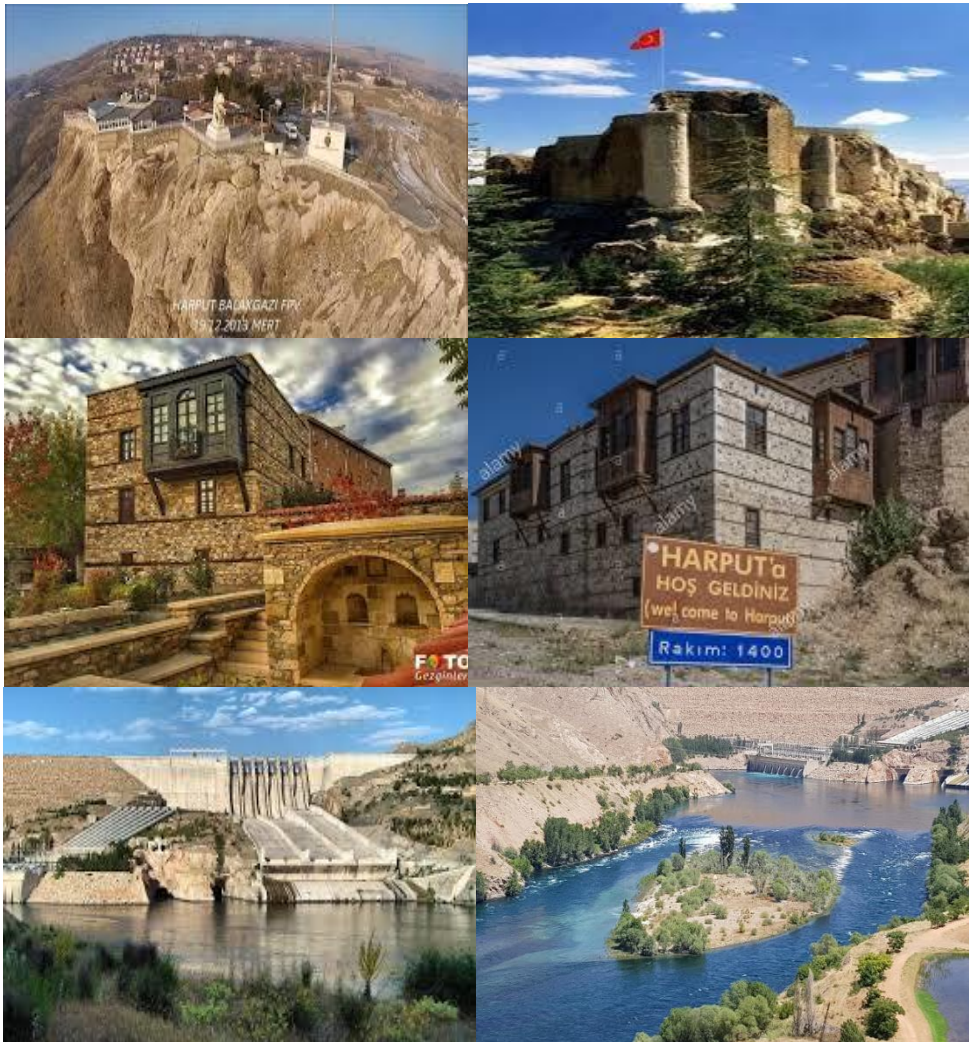


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