

## Dr. Ahmed Alsafran

Assistant Professor

### Personal Data:

Nationality | Saudi  
Date of Hire | 3/12/1434 H  
Date Rank Obtained | December 2020  
Department | Electrical Engineering Department  
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### Education:

Academic Degree	Major	specialty	Place of Issue	Address	Date
Doctorate (PhD)	Electrical Engineering	Smart Grid and Renewable energy applications	University of Dayton	Dayton, Ohio	December 2020
Masters (M.Sc.)	Electrical Engineering	Control systems	University of Dayton	Dayton, Ohio	December 2015
Bachelor (B.Sc.)	Electrical Engineering	Electronics	University of Dayton	Dayton, Ohio	December 2012

### PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions):

PhD	Consensus Control for Power Sharing in an Islanded Microgrid Using an Adaptive Virtual Impedance Approach.
Master	Optimal and Adaptive Control System Applications.

### Experiences:

Title of Job	Address of Work	Country	Date	
Electrical Engineering Department, Assistant Professor	King Faisal University - College of Engineering	Saudi Arabia	From	December 2020
			To	Present
Graduate Electrical Engineering Program, Coordinator	King Faisal University - College of Engineering	Saudi Arabia	From	August 2021
			To	Present
Student Activities and Graduations Committee, Chair	King Faisal University - College of Engineering	Saudi Arabia	From	September 2021
			To	Present

### Research Interests:

1. Smart Grid technologies and applications.
2. Integrating renewable energies system.
3. Connected-mode and islanded-mode microgrid applications.
4. Control the power electronics devices in renewable energies systems.
5. Power sharing among various microgrids and photovoltaic systems.

### Publications:

#	Name of author(s)	Title of Publication	Publisher and Date of Publication	Link of Publication
1	Alsafran, A.S.; Daniels, M.W.	Consensus Control for Reactive Power Sharing Using an Adaptive Virtual Impedance Approach.	Energies, 2020	<a href="#">Click Here</a>
2	Alsafran, Ahmed.	Literature review of power sharing control strategies in islanded AC microgrids with nonlinear loads.	IEEE, 2018	<a href="#">Click Here</a>
3	Alsafran, A.S.; Daniels, M.W.	Adaptive Virtual Impedance Consensus Control for Reactive Power Sharing	IEEE, 2020	<a href="#">Click Here</a>
4	Alsafran, Ahmed Sulaiman	Consensus Control for Power Sharing in an Islanded Microgrid Using an Adaptive Virtual Impedance Approach.	University of Dayton, 2020	<a href="#">Click Here</a>
5	Alsafran, Ahmed S., and Malcolm W. Daniels	Comparative Study of Droop Control Methods for AC Islanded Microgrids.	IEEE, 2020	<a href="#">Click Here</a>

6	Alsafran, Ahmed S., and Malcolm W. Daniels.	Comparative Review of Consensus Controls with Triangle Mesh Topology for Reactive Power Sharing.	IEEE, 2020	<a href="#">Click Here</a>
7	Alsafran, Ahmed.	Unbalanced Power Sharing Control Method for an Islanded Microgrid.	University of Dayton, 2018	<a href="#">Click Here</a>
8	Alsafran, Ahmed S.	Effectiveness of Communication Topology Design on Rate of Convergence of the Reactive Power Sharing in off-grid Microgrids	IEEE, 2021	<a href="#">Click Here</a>

#### Language Proficiency:

1. Arabia
2. English