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Associate Professor

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 Interdisciplinary Research Center for Renewable Energy and
 Power Systems (IRC-REPS)
 King Fahd University of Petroleum & Minerals, Saudi Arabia

Executive Summary:

Over twelve years of experience in the fields of system identification, control systems, renewable and sustainable energy, optimization, and artificial intelligence. conducting high research quality as well as published research data in the form of research articles and conference proceedings. Development of new courses. Teaching and supervising graduate and undergraduate students.

Education:

- ☐ PhD . Electrical and Computer University of Calgary, Canada, 2009]
- ☐ M.Sc. Systems Engineering [KFUPM, Saudi Arabia, 2004]
- ☐ B.Sc. Systems Engineering [KFUPM, Saudi Arabia, 1999]

Distinguished Projects

- *Project title "Metal based nitrogen doped graphene hydrogels with and without heterogeneous as an effective non-precious oxygen reduction catalyst of direct methanol fuel cell" funding by The Research and Development (R&D) program (Research Pooling Initiative), Ministry of Education, Saudi Arabia, Role: PI.*
- *Project title "Applications of Advanced Mathematical and Signal Processing Engineering Techniques to Machine Learning and Communications Technology" funding by DSR Prince Sattam bin Abdulaziz University, Alkharj, Saudi Arabia, Role: PI.*
- *Project title "Optimization methods and non-parallel support vector machines" funding by DSR Prince Sattam bin Abdulaziz University, Alkharj, Saudi Arabia, Role: PI.*
- *Project title "Fractional Integration of Generalized Bessel-type Functions and Application to Strong Stabilization" funding by DSR Prince Sattam bin Abdulaziz University, Alkharj, Saudi Arabia, Role: Co-PI.*
- *Project title "Design of Intelligent-Based Optimized Control over pH Titration Process" funding by DSR Prince Sattam bin Abdulaziz University, Alkharj, Saudi Arabia, Role: PI.*
- *Project title "Phone as a Sensor in Context-aware Mobile Services" funding by DSR Prince Sattam bin Abdulaziz University, Alkharj, Saudi Arabia, Role: Co-PI.*
- *Project title "Twins Support Vector Machine System Identification" funding by DSR, KFUPM, Dhahran, Saudi Arabia, Role: PI.*

Research Summary

- Number of Published Papers: 83
- Citations : 927
- H-Index : 16

Award and Recognitions

- KFUPM 20-years' Service Award
- KFUPM 10-years' Service Award
- Guest Editor Advances in Mechanical Engineering.
- British Council Post-doctoral Summer Research (PDSR) Grant – 2011

Skills and Expertise

- Control and optimization of renewable energy systems and desalination processes.
- Designing, Computing, Simulation & Modelling by MATLAB, Python, MATHEMATICA, LabVIEW, Pspice, HOMER.
- Energy Management, Life cycle cost analysis and Energy Efficiency;
- Aero Dynamic Control & Robotics
- Smart system design by IoT and Machine learning;