RABIAH BADAR

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Main Bazar Dhudial. District Chakwal. Punjab, Pakistan.

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EDUCATION

- *COMSATS Institute of Information Technology, Islamabad.*
- MS   Computer Engineering   3.75 CGPA 2009
- *Quaid-I-Azam University, Islamabad.*
- M.Sc.   Electronics 70.1%   2005
- *Govt. Post Graduate College for Women, Rawalpindi.*
- B.Sc.   Math A, Math B, Physics   66.9% 2002
- *Govt. Post Graduate College for Women, Chakwal.*
- F.Sc.   Pre-Engineering   74.9%   2000

DISTINCTIONS

* COMSATS IIT Research productivity award winner for the year 2013
* COMSATS IIT Research productivity award winner for the year 2012
* Research paper presentation in UPEC 2012 London by winning HEC travel grant.
* Top position in MS Computer Engineering.
* HEC indigenous scholarship for MS leading to PhD.
* 3rd position in 1st semester of M.Sc. Electronics, Q.A.U. Islamabad.
* Merit scholarship on fifth position in Mathematics in Rawalpindi board.
* First position in F.Sc. Pre-Engineering group in college.
* Scholarship holder in higher secondary school and F.Sc.

PUBLICATIONS

1. L. Khan, S. Anjum, and **R. Badar**, "Standard fuzzy model identification using gradient methods", *World Applied Sciences Journal*, vol. 8, no. 1, pp. 1-9, 2010. (ISI-Indexed)

2. L. Khan, M. Umair Khan, and **R. Badar**, "Soft computing techniques for system identification using Matlab/Simulink", *Australian Journal of Basic and Applied Sciences*, vol. 4, no. 6, pp. 1527-1541, 2010. (ISI-Indexed)

3. **R. Badar** and L. Khan, "Nonlinear adaptive NeuroFuzzy wavelet based damping control paradigm for SSSC," *Advances in Electrical and Computer Engineering (AECE)*, vol. 12, no. 3, pp. 97-104, 2012. (IF: 0.552)

4. **R. Badar** and L. Khan, "Hybrid Neuro-fuzzy Legendre-based adaptive control algorithm for Static Synchronous series Compensator," *Electric Power Components and Systems*, vol. 41, no. 9, pp. 845-867, 30 May 2013. (IF: 0.62)

5. L. Khan and **R. Badar**, "Hybrid adaptive NeuroFuzzy Bspline based SSSC damping control paradigm using online system identification," *Turkish Journal of Electrical Engineering & Computer Sciences* . (IF: 0.555)

6. **R. Badar** and L. Khan, "Power system oscillations damping using HABsW based FACTS-SSSC," *Journal of Intelligent and Fuzzy Systems*: IOS press (accepted) (IF: 0.78).

7. **R. Badar** and L. Khan, "Coordinated adaptive control of multiple FACTS using MIMO NeuroFuzzy damping control paradigms," *Electric Power Components and Systems* (accepted) (IF: 0.62).

8. **R. Badar** and L. Khan, "Fully adaptive control of multi-type FACTS using MIMO NeuroFuzzy Legendre wavelet based damping control," *Electric Power Components and Systems* (under review).

9. R. Badar and L. Khan, "Legendre Wavelet Embedded NeuroFuzzy Algorithms for multiple FACTS," International Journal of Electrical Power and Energy Systems (under review).

10. **R. Badar** and L. Khan, "Comparative evaluation of Lyapunov based fully adaptive MIMO hybrid soft computing damping control paradigms," (under preparation).

RESARCH INTERESTS

* Power System Stability and Control,
* FACTS controllers,
* Nonlinear Adaptive Control,
* Hybrid Intelligent Systems,
* Channel Coding,
* FPGAs,
* Digital Logic Design,
* Digital Signal Processing.

GENERAL EXPERTISE

- C/C++,
- MATLAB/SIMULINK,
- Verilog,
- Xilinx/ModelSim,
- Latex,
- Pspice,
- MS office,
- MS Visio.

Thank you