

DATE

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PERSONAL DATA

Name: Dr. Khalid A. Al-Mashouq

Business Address:

King Saud University
Electrical Engineering Department,
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EDUCATION

{Institute – King Saud University }

<u>Year</u>	<u>Degree</u>	<u>Faculty</u>	<u>Field</u>
1403	B.Sc.	Engineering	Electrical Engineering
1406	M.Sc.	Engineering	Electric Power Engineering

{Institute - University of Southern California }

<u>Year</u>	<u>Degree</u>	<u>Faculty</u>	<u>Field</u>
1412	Ph.D.	Engineering	Electric Power Engineering

CURRENT POSITION

Associate Professor, Electrical Engineering Department, King Saud University, Riyadh, Saudi Arabia

POSITIONS HELD

ACADEMIC - KING SAUD UNIVERSITY, RIYADH, SAUDI ARABIA

Electrical Engineering Department

1. Associate Professor (28/12/1416-present)

ACADEMIC - {INSTITUTE - KSU }

Department of Engineering

1. Assistant Professor (15/06/1412-27/12/1416)
 2. Lecturer (17/09/1406-15/06/1412)
 3. Teaching Assistant (22/09/1403-17/09/1406)
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PROFESSIONAL MEMBERSHIPS

- IEEE Member

AWARDS

GOVERNMENT AWARDS: -----

TECHNOLOGY AWARDS

2. 1990 – Certificate of Outstanding academic achievement from University of Southern California (USC), Los Angeles California, USA

AWARD PUBLICATIONS

1. 1996 – Certificate of appreciation from IEEE Communication Society for contributing to the growth of communication industry and society.
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PUBLICATIONS (*Summary*)

- Refereed Journal Papers:

- 1- Khalid A. Al-Mashouq, “**Prediction of Neutral Net Tolerance to Noise,**” Neural Processing Letters, Vol. 5, No. 1, 1997.
- 2- Khalid A. Al-Mashouq and I.S. Reed, “**Including Hints in Training Neural Nets,**” Neural Computation, Vol.3, No.3, pp. 418-427, Fall 1991.
- 3- Khalid A. Al-Mashouq and I.S. Reed, “**The Use of Neural Nets to Decode Adaptively in a Variety of Channels,**” Digital Signal Processing, Vol.3, pp. 103-111, Nov. 1993
- 4- Khalid A. Al-Mashouq and I.S. Reed, “**The Use of Neural Nets to Combine Equalization with Decoding for Severe Intersymbol Interference Channels,**” IEEE Transaction on Neural Networks, Vol.5, No.6, pp. 982-988, Nov. 1994.
- 5- Khalid A. Al-Mashouq, I. El-Azhari, Mostafa S. Afifi, A. S. Al-Ruwais and P.S. Excell “**Multiple Nulls Formation and Low Interference of Future Arrays for Small Earth Stations,**” Proc. ARABSAT Symposium, Riyadh, Saudi Arabia, pp. 434-443, Sept. 1987.

- Invited / Magazine Papers: -----

- Award Winning Conference Papers: -----

- Conference Papers:

- 1) Khalid A. Al-Mashouq, I.S. Reed and Ara Patapoution, “**Complexity and Learning in Error Tolerant Neural Nets,**” Proceeding of the 7th International Conference on System Engineering, Las Vegas, Nevada, USA, June 1990.
- 2) Khalid A. Al-Mashouq and I.S. Reed, “**Training Neural Nets with the Minimum Hamming Distance as a Hint,**” Proceedings of the 1990 International Symposium on Information Theory and Its Applications (ISITA-1990), Waikiki, Hawaii, USA, November 1990.
- 3) Khalid A. Al-Mashouq and I.S. Reed, “**The Use of Neural Nets to Combine Equalization with Decoding,**” IEEE International Conference on Speech Acoustic and Signal Processing (ICASSP-93), Minneapolis, Minnesota, USA, April 1993.
- 4) Khalid A. Al-Mashouq and A. Kh. A. Jabri, “**Unstructured to Structured Error Correction Using Neural Nets,**” IEEE International Conference on Speech, Image and Neural Networks, Hongkong, April 1994.
- 5) Khalid A. Al-Mashouq, “**Generalization in Neural Nets Using Error Correcting Codes,**” IEEE International Conference on Consumer Electronics (ICCE), Chicago, Illinois, USA, June 1994.

- Book Contributions: -----

- Utility Industry Technical Reports: -----

- University Technical Reports: -----

- National and International (Externally-Funded) Project Official Final Reports : -----

- Final Industry Consulting Reports (Industry Funded Projects: -----)
- University (Research Funded) Project Final Reports: -----

ACADEMIC SUPERVISION

GRADUATE/UNDERGRADUATE SUPERVISION

- Ph.D. Programs: One student
- M.Eng. & M.Sc. Programs: One student
- Graduation Thesis & Summer Projects: students

GRADUATE/UNDERGRADUATE EXAMINATION & SUPERVISORY COMMITTEES

- Ph.D. Supervisory Committees: students
- Ph.D. & M.Eng. Defense Committees: students
- B.Sc. Thesis Examination Committees: students

RECENT R&D FUNDED CONTRACTS

(Last Five Years)

RECENT PUBLICATIONS *(Last Five Years)*

Journal Papers

1. **“Robust speech recognition using output-coded neural network”**
Accepted for publication in Journal of Mathematical Modeling and Scientific Computing, 1999.
2. **“Clustered Recursive Branching Network”** Accepted for publication in Neural Processing Letters, 1999.
3. Khalid A. Al-Mashouq and Yousif Al-Hodhaif, **“Optimization of Recursive Branching Network”** in IEEE IJCNN, Washington, DC, July 1999.
4. **“Coding the Output of a Feed-Forward Neural Net,”** Accepted for publication in Journal of Connection Science, 1996.
5. **“Error Correction to the Output of Neural Nets,”** Accepted for publication in Journal of Mathematical Modeling and Scientific Computing, Principia Scientia International Publisher, 1996.

Conference Papers *(Last Five Years)*

6. **“Minimizing Memory Loss in Learning A New Environment”** (The 2000 Computation Neuroscience Meeting (CNS-2000) Brugge, Belgium, July 16-20, 2000).
7. **“Speech Quality Rating in Mobile Phones”** the 2000 International Conference on Mathematics and Engineering Techniques in Medicine and Biological Sciences (METMBS’2000): Las Vegas, Nevada, USA, June 26-29, 2000.

8. Khalid A. Al-Mashouq, B. V. K. Vijaya Kumar and Mohamed Alkanhal, “**Analysis of Signal-to-Noise Ratio of Polynomial Correlation Filters**” in SPIE Optical Pattern Recognition X, Orlando, Florida, April 1999.
9. “**Output-Coded Neural Network for the Recognition in Noisy Environment**” in 3d International Conference on Computational Intelligence and Neuroscience, Research Triangle Park, North Carolina, October 1998.
10. “**Recursive Branching Net**”, the IEEE Conference on System, Man and Cybernetics, Orlando, Florida, October 1997.