Curriculum Vitae

Omid Reza Ma'rouzi
Electrical & Robotics School
Shahrood University of Technology, Shahrood, Iran
P.O.Box: 3619995161
Fax: (+98273)3333116
Tel: (+98273) 3332204-9 EXT: 2468
E-mail: ormzi@yahoo.com

_____

AREAS of INTEREST:
- All-Optical Networks
- Satellite Communications
- Routing Algorithms
- High Speed Data Communication Protocols

EDUCATION:
- Sept.1998-Apr. 2007: **Ph.D.,** Electrical Engineering, Tarbiat Modarres University, Tehran, Iran (rank 1 in matriculation exam among 50 participants).
  Research Topic: "Routing and Wavelength Assignment in All-Optical WANs".
  Final GPA: 16.92/20
- Feb. 91-Feb. 94: **M.Sc.,** Electrical Engineering, Sharif University of technology, Tehran, Iran (rank 13 in matriculation exam among 1,700 participants).
  Final GPA: 15.98/20
  Research Topic: "Satellite Communication Links Evaluation and Simulation for National region".
- Oct. 86-Feb. 91: **B.Sc.,** Electrical Engineering, Sharif University of Technology, Tehran, Iran (rank 24 in matriculation exam among 160,000 participants).
  Final GPA: 16.06/20.

WORK EXPERIENCE:
- Aug. 2006-present**: Assistant Professor**, Shahrood University of Technology
- Feb. 2003-Feb. 2005**: Instructor**, Shahrood Technical University.
- Feb. 2002-Aug. 2006**: Instructor**, Sadjad High Education Institute.
- Oct. 99-Jan. 2002: **Master Design Engineer,** Information Services Corporation.
  -Satellite Communication Network Design
- Dec. 94-Apr.2004: **Consultant and Research Engineer,** Iran Railway Research center.
  -Signal Processing
  -Radio Network Planning
  -Signaling Equipment Design
- Aug. 94-Aug. 96: **Research Engineer,** Iran Communication Industry Organization (SA_IRAN)
  -Mobile Communication
  -HF Channel Simulation
- June 92-Feb. 92: **Consultant & Research Engineer,** Iranian Central Bank Automation Group.
  -Analysis and Simulation of Data Communication Protocols
  -VSAT telecommunications Network Planning
- Feb 91-June 92: **Electronic Design Engineer,** NIAN Co. Tehran, Iran.
  - Designing and Assembling PC interface card for Centralized Traffic Control
  -Software Development for Centralized Traffic Control System.
- Sept. 94-Dec. 94: **Teaching Assistant,** Sharif University of Technology.
  - Graduate level DSP course

TECHNICAL SKILLS:
    Simulation packages: MATLAB, SIMULINK, PSPICE
    Computer Skills: C, C++, Pascal, BASIC.

PUBLICATIONS:

1) A. R. Sharafat, and O. R. Ma'rouzi, "Recursive Contraction Algorithm: a novel and efficient graph transversal method for scanning all minimal cutsets," *Iranian Journal of Science and Technology,* Vol. 30, No. B6, pp. 749-761, 2006.

2) A. R. Sharafat, and O. R. Ma'rouzi, "Recursive Truncation Algorithm: A novel method for assessing of all terminal network reliability," (in Persian) Proceeding of 12th Iranian Electrical Engineering Conference, May 2004..

3) A. R.Sharafat and O. R. Ma'rouzi, "The most congested cutset: Deriving a tight lower bound for the chromatic number in the RWA problem", *IEEE Communications Letters,* vol. 8, no. 7, Jul 2004 pp. 473-475

4) M. Mahramian, H. Taheri, and O. R. Ma'rouzi, "Application of Self-Similar traffic in the CCE Method of Estimating mean Cell Delay," Proceeding of 9th Iranian Electrical Engineering Conference, May 2001.

5) O. R. Ma'rouzi, M. T. Kilani, A. Saeb, and M. Seradj,"Soft Viterbi Algorithm and its application in Performance improvement of Mobile Receiver,"(in persian) Proceeding of 6th Iranian Electrical Engineering Conference, May 1998.

6) O. R. Ma'rouzi, H. Azarnoosh, H. Ahmadi,"Audio Signal Processing for Flat Wheel Detection," Presented in UIC Signalling Conference, April 1998, Tokyo, Japan.

7) M. T. Kilani, O. R. Ma'rouzi, A. Saeb, M. Seradj, "Simulation and Performance Evaluation of the GSM mobile Radio System by Viterbi and Decision Feedback Equalizers," presented at ICICS 97, Singapore 9-12 September 1997.

۸) **کابرد شبکه رادیویی GSM/R در راه‌آهن /، امیدرضا معروضی، مرتضی مروتیان**

مجموعه مقالات چهارمین همایش حمل و نقل ریلی، جلد دوم : تاسیسات زیربنایی،، تهران، راه‌آهن جمهوری اسلامی ایران، مرکز تحقیقات ، ۱۳۷۷. , ۲۸+۳۴۴ ص .،، ص ۲۲۱.

۹) **سیستم کنترل اتوماتیک قطار /, ATC امیدرضا معروضی، غلامرضا نظری، حشمت‌الله لطفی‌آزاد**

مجموعه مقالات چهارمین همایش حمل و نقل ریلی، جلد دوم : تاسیسات زیربنایی،، تهران، راه‌آهن جمهوری اسلامی ایران، مرکز تحقیقات ، ۱۳۷۷. , ۲۸+۳۴۴ ص .،، ص ۷۵.

۱۰) **تشخیص صافی چرخ توسط پردازش سیگنال صوتی /, امیدرضا معروضی**

مجموعه مقالات سومین همایش حمل و نقل ریلی، جلد دوم،، تهران، راه‌آهن جمهوری اسلامی ایران، ۱۳۷۶. , ۴۵۰ ص .،، ص ۱۴۱.