

CURRICULUM VITAE
Amin Banitalebi Dehkordi

University of British Columbia

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Sex: Male

Birth Date: 22 Sep. 1986

Place of Birth: Shahrekord, Iran

Marital Status: Single

EDUCATION

- University of British Columbia
Ph.D. student in Electrical Engineering
Supervisor: Prof. Panos Nasiapoulos

- University of Tehran
M.Sc. in Electrical Engineering, Communication Systems
Sep. 2008 – Feb. 2011
GPA: 17.79 out of 20 via 32 credits (3.72 out of 4).
Thesis: Watermarking Optimized for Perceptual Image Quality Metrics, marked 20/20.
Supervisors: Prof. Said Nader-Esfahani, Prof. Alireza Nasiri Avanaki

- University of Tehran
B.Sc. in Electrical Engineering, Communications
Sep. 2004 – July 2008
GPA: 17.85 out of 20 via 141 credits (3.81 out of 4), Ranked 5th in the whole bachelor degree.
Thesis: Simulation and research on chaotic specifications of the human EEG signals, variability of chaos indices in EEG signals using classification, marked 20/20.
Supervisor: Prof. Gholam-Ali Hossein-Zadeh

- Shahid Beheshti High School, Shahrekord, Iran, 2000 - 2004
(Under Supervision of National Organization for Development of Exceptional Talents)
Pre-university
GPA: 19.94 out of 20 (4 out of 4)
High School Diploma
GPA: 19.63 out of 20 (4 out of 4)

RESEARCH INTERESTS

- 3D TV
- Digital Signal, Image and Video Processing & Computer Vision
- Digital Watermarking and Steganography
- Bioelectrical signal processing
- Multimedia Communication over Networks and Wireless Channels
- Wireless Communications and Networking; Wireless Sensor Networks

HONORS

- Admitted with fully financial support to the Ph.D. program of Electrical Engineering in the University of British Columbia.
- Awarded the partial tuition scholarship in UBC (\$3200 annual), from 2011-2015.
- Selected as the first of two students who were exempted from M.Sc. entrance exam of telecommunications in the University of Tehran, Sep. 2008.
- Ranked **First Place** in the Electrical Engineering department, University of Tehran, Iran, 2005.
- Awarded **FOE (Faculty of Engineering)** prize for the first GPA in the Electrical Engineering department at first year of study, University of Tehran, Iran, 2005.
- Ranked 5 in the whole 4-year bachelor study between communication students and ranked 8 between all electrical engineering students.
- Ranked 12 in the first stage of Electrical Engineering Olympiad, among all the universities of Tehran, Iran, 2007-2008.
- Ranked 20 in the final stage of Electrical Engineering Olympiad, among all the universities of Iran, 2007-2008.
- Faculty of engineering scholarship as an exceptional student in all semesters of studying.
- Entered University of Tehran, Sep. 2004 (Ranked 66th among more than 400,000 applicants in National Universities Entrance Exam).
- Won acceptance in the first stage of national competition to select Mathematics, Computer, Chemistry and Physics Olympiad team, 2003.
- Ranked **First** student among all students at High school (of the same enrollment year), 2001, 2002, 2003, 2004.
- Passed a course 'GSM Planning and Optimization' and received a certificate from the Ministry of Information and Communication Technology, Tehran, Iran, 2008.
- Ranked first in several scientific competitions among the students of my province in High School.

PUBLICATIONS

- ✓ Watermarking:
 - **A. Banitalebi**, M. Banitalebi, "An optimization technique based on structural similarity thresholding for digital watermarking," submitted to *Iranian Journal of Electrical and Electronics Engineering, IJEEE*, Iran, 2011.
 - **A. Banitalebi**, S. Nader-Esfahani and A. Nasiri Avanaki, "Robust LSB watermarking optimized for local structural similarity," 19th Iranian Conference on Electrical Engineering, ICEE, Tehran, Iran, May, 2011.
- ✓ Image and Video Processing:
 - **A. Banitalebi**, and S. Nader-Esfahani, "Exploring the distributed video coding in a quality assessment context," 5th International Symposium on Telecommunications, IST, Tehran, Iran, Dec. 2010.
 - **A. Banitalebi**, S. Nader-Esfahani and A. Nasiri Avanaki, "A perceptual based motion compensation technique for video coding," 6th Iranian Conference on Machine Vision and Image Processing, MVIP 2010, Isfahan, Iran, Oct. 2010.

- **A. Banitalebi**, M. Moosaei, G. A. Hossein-Zadeh, “An investigation on the usage of image quality assessment in visual speech recognition,” 3rd International Congress on Image and Signal Processing, CISP 2010, China, 2010
- ✓ Wireless Communications and Networking:
 - S. Imani, **A. Banitalebi**, M. Kamarei, “Using weighted multilevel wavelet decomposition for wideband spectrum sensing in cognitive radios,” 19th Iranian Conference on Electrical Engineering, ICEE, Tehran, Iran, May, 2011.
 - S. Imani, **A. Banitalebi**, M. Kamarei, “Adaptive sub-optimal energy detection based wideband spectrum sensing for cognitive radios,” 1st International Conference on Electrical, Control and Computer Engineering, INECCE, Pahang, Malaysia, June, 2011.
- ✓ EEG Signal Processing:
 - **A. Banitalebi**, S. K. Setarehdan, G. A. Hossein-Zadeh, “A technique based on chaos for brain computer interfacing,” 14th International CSI Conference (CSICC2009), Tehran, Iran, Oct. 2009.
 - **A. Banitalebi**, G. A. Hossein-Zadeh, “On the Variability of Chaos Indices in Sleep EEG Signals,” 15th Iranian International Conference on Biomedical Engineering, Mashhad, Iran, Feb. 2009.
- ✓ Dissertation:
 - **A. Banitalebi**, “Watermarking, Optimized for Perceptual Image Quality Metrics,” M.Sc. Thesis, School of Electrical and Computer Engineering, Faculty of Engineering, University of Tehran, Tehran, Iran, Feb. 2011.
 - **A. Banitalebi**, “Simulation and Research on Chaotic Specifications of the Human EEG Signals.” B.Sc. thesis, School of Electrical and Computer Engineering, Faculty of Engineering, University of Tehran, Tehran, Iran, July 2008.

WORK EXPERIENCE

- Research assistantship; Digital Multimedia Lab, UBC.
- Communication Corporation of Shahrekord, center of data and center of urban services, summer 2007.

LANGUAGE SKILLS AND QUALIFICATIONS

- Native in Farsi, Fluent in English, Familiar with Arabic.
- TOEFL iBT: 104 (26 Reading, 28 Listening, 22 Speaking, 28 Writing)

PAPER PRESENTATIONS

- 14th International Computer Society of Iran’s (CSI) Conference, Tehran, Iran, Oct. 2009.
- 6th Iranian Conference on Machine Vision and Image Processing, Isfahan, Iran, Oct. 2010.
- 5th International Symposium on Telecommunications, IST, Tehran, Iran, Dec. 2010.
- 19th Iranian Conference on Electrical Engineering, ICEE, Tehran, Iran, May, 2011.

REVIEWER OF

- 24th Canadian Conference on Electrical and Computer Engineering, Ontario, Canada, May, 2011.

GRADUATE COURSES

- Multimedia, Dr. M. R. Hashemi, Fall 2009, marked 18/20.
- Introduction to Wavelet Theory and its applications, Dr. H. N. Ahmadi, Fall 2009, marked 17/20.
- Digital Watermarking, Dr. A. Nasiri-Avanaki, Spring 2009, marked 20/20.
- Digital Image Processing, Dr. R. Zoroofi, Spring 2009, marked 18/20.
- Digital Signal Processing, Dr. G.A. Hosein-Zadeh, Spring 2007, marked 18/20.
- Information Theory, Dr. F. Lahooti, Spring 2009, marked 17/20.

- Pattern Recognition, Dr. B. Araabi, Spring 2009, marked 19/20.
- M.Sc. Seminar, Dr. M. Kamarei, Spring 2009, marked 19.75/20.
- Stochastic process, Dr. S. Nader-Esfahani, Fall 2008.
- Digital Transmission Communication Systems, Dr. N. Rezaei, Fall 2007.
- Advanced Theory of communication, Dr. A. Olfat, Fall 2008.

MATH ABILITY; MATHEMATICS COURSES

- Calculus I, Dr. A. Feiz, marked 19.5/20 (Top mark in faculty of engineering in the same year).
- Calculus II, Dr. A. Feiz, marked 20/20.
- Differential Equations, Dr. D. Moazami, marked 20/20.
- Numerical Analysis, Dr. A. M. Pourpak, marked 19.2/20.
- Engineering Probability and Statistics, Dr. B. Araabi, marked 18.5/20.
- Engineering Mathematics, Dr. J. Rashed, marked 19/20.

TEACHING EXPERIENCES

- Signals and Systems, Teaching Assistant, Spring 2010, School of ECE, University of Tehran, Presented by: Dr. A. Abbasfar.
- Communication Systems I, Teaching Assistant, Fall 2009, School of ECE, University of Tehran, Presented by: Dr. A. Abbasfar.
- Signals and Systems, Teaching Assistant, Spring 2009, Fall 2008, Fall 2007, Spring 2007, Fall 2006, School of ECE, University of Tehran, Presented by: Dr. A. Nasiri Avanaki.
- Electronic Lab 2, Teaching Assistant, Spring 2009, Fall 2009, School of ECE, University of Tehran, Presented by: Dr. Sh. Ashtiani.
- Electronic Lab 1, Teaching Assistant, Spring 2009, Fall 2009, Spring 2010, School of ECE, University of Tehran, Presented by: Dr. Sh. Ashtiani.
- Engineering Probability and Statistics, Teaching Assistant, Spring 2008, School of ECE, University of Tehran, Presented by: A. Adhami.
- Digital Signal Processing (Graduate Course, when I was bachelor), Teaching Assistant, Fall 2007, School of ECE, University of Tehran, Presented by: Dr. A. Nasiri Avanaki.

COMPUTER SKILLS

- **MATLAB**
- **Simulation Software**
HSPICE/ PSPICE/ ORCAD, Modelsim, Quartus, HFSS, Opnet (limited), ADS (Advanced Design System software by Agilent), SIMULINK, M-file programming.
- **Programming Languages**
Matlab, C/C++, Java, Verilog, Pascal, QBasic.
- **Operating Systems and Microsoft Office**
Microsoft Windows, Linux, MS-DOS, Word, Excel, PowerPoint, FrontPage.

EXTRACURRICULAR ACTIVITIES AND INTERESTS

- Music (playing Ney & Sintoor), Sport (football, and chess)

REFERENCES

- Prof. Panos Nasiopoulos Professor, E-mail: panosn@ece.ubc.ca
- Prof. Gholam-Ali Hossein-Zadeh Associated Professor, E-mail: ghzadeh@ut.ac.ir
- Prof. Alireza Nasiri Avanaki Assistant Professor, E-mail: ali.avanaki@alumni.ubc.ca
- Prof. Said Nader-Esfahani Professor, E-mail: nader@ut.ac.ir
- Prof. Ali-Azam Abbasfar Assistant Professor, E-mail: abbasfar@ece.ut.ac.ir
- Prof. Kamaledin Setarehdan Associated Professor, E-mail: ksetareh@ut.ac.ir