

HIT – HOLON INSTITUTE OF TECHNOLOGY

Date: February 2025

Name Peretz Meron Senior Lecturer 008549982
(first) (last) (acad. degree) No. id. Card

Faculty Engineering **Department** Electrical Engineering

Home Address 13 Achimeir street, Tel-Aviv, Israel **Phone No.** +972-54-333-99-81 (mobile)

Date/place of birth August 18, 1948 Israel **Date of arrival in Israel** N/A

ZAHAL, (Israeli) Military Service 31-8-1966 15-6-1975
dates (enlisted) (discharged)

Marital Status Married **No. of children** 3

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A. EDUCATION

Period of Study (dates)	Name of University (including city and country if not in Israel)	Subject	Degree or Professional License	Date of Award
1979-1985	Tel-Aviv University	Electrical Engineering	Ph. D.	5-1985
1970-1973	Technion	Electrical Engineering	M. Sc.	6-1973
1966-1970	Technion	Electrical Engineering	B. Sc. Summa Cum Laude	6-1970

Title of master's Thesis: Practical Aspects in Active Filters Design

Name of Supervisors: Professor Ezra Zeheb

Title of Doctoral Dissertation: Research of Phenomena of Guidance in Multimode Optical Fibers

Names of Supervisors: Professor Emanuel Marom

B. FURTHER STUDIES

Period of Study	Name of University	Subject	Degree of Professional License	Date
1997-1998	Tel-Aviv University	Executive MBA Program	MBA degree	6-1998
1984-1985	Tel-Aviv University	Computer Science Program	Computer Science degree	4-1986

C. ACADEMIC AND PROFESSIONAL EXPERIENCE

Period (dates)	Name of Institution (city, country)	Department	Rank/Function
2017 – today	HIT	Electrical Engineering	Senior Lecturer
1988 – 2003	Tel-Aviv University	Electrical Engineering	Adjunct Lecturer
1985-1987	University of Rochester	Electrical Engineering	Visiting Assistant Professor
1984-1985	Tel-Aviv University	Computer Science	Lecturer

D. PROFESSIONAL ACTIVITIES

Period (dates)	Name of Institution/Conference/ Journal/Exhibitions/Projects (city, country)	Position
2017-today	Israel Innovation Authority	Professional Evaluator
2016-2017	Cello	Program Manager
2006-2015	Intel	Senior Product Manager
2004-2006	Oplus	Technology Manager
1994-2003	Scopus Video Networks	CTO
1987-1984	Tadiran Data Links	Chief Scientist

E. ACADEMIC AND PROFESSIONAL AWARDS

Year	Name of Institution (city, country)	Occasion
2010	Intel's Award	Intel's first Tera-scale Processor
1994	IEEE (NY, USA)	IEEE Senior Member
1990	Tadiran Data Links (Holon, Israel)	Chief Scientist

F. Courses taught at HIT

- Introduction to Electrical Engineering
- Linear Electronic Circuits

G. Courses taught at Tel-Aviv University

- Introduction to Electrical Engineering
- Digital Communications
- Signals and Systems
- Computers Structure

H. Courses taught at University of Rochester

- Introduction to Electrical Engineering
- Computers Programming

I. MEMBERSHIP IN PROFESSIONAL SOCIETIES

Year	Society (country)
1990	IEEE (USA)

PUBLICATIONS

A. REFEREED ARTICLES

- 1 H. Magal, R. Ianconescu and P. Meron, "A Robust Error Resilient Video Compression algorithm", IEEE Military Communications Conference, Fort Monmouth NJ, October 2-5, 1994.
- 2 E. Marom and P. Meron, "Upper Limit of Bandwidth Improvement by Optical Equalization of Graded Index Fibers", Opt. and Quant. Elec., Vol. 16, (1984), PP. 77-83.
- 3 E. Marom and P. Meron, "Upper Limit of Bandwidth Improvement by Optical Equalization of Graded Index Fibers", Opt. and Quant. Elec., Vol. 16, (1984), PP. 77-83.
- 4 P. Meron, "Research of Phenomena of Guidance in Multimode Optical Fibers.", Ph.D. Thesis, May 1984.
- 5 P. Meron and E. Marom, "Mode Splitting at Splices of GRIN Fibers", Applied Opt., Vol. 22, (1983), PP. 446-454.
- 6 P. Meron and E. Marom, "Goose Hanchen Effect and Modal Distribution in Step-Index Optical Fibers ", Optic. Comm., Vol. 39, (1981), PP. 31-34.
- 7 P. Meron and E. Zeheb, "Optimal Gain Allocation Maximizing the Dynamic Range of Cascade Network", Arch. fur Elek. und Uber. Vol. 29, (1975), PP. 146-148.
- 8 P. Meron, A. Sekey and E. Zeheb, "Design Method for Stable Second Order Digital Filters", IEEE Transact. on Accou., Vol. ASSP-22, (1974), pp. 196-202.
- 9 E. Zeheb and P. Meron, "Practical considerations in the design of active filters with particular reference to micro power requirements", int. J. Elec. vol. 36, (1974), pp. 811-824.
- 10 P. Meron, "Practical Aspects in Active Filters Design." M.Sc. Thesis, April 1973.

B. PAPERS PRESENTED AT SCIENTIFIC MEETINGS PUBLISHED IN PROCEEDINGS

- 1 P. Meron, "Next Generation SDTV & HDTV Distribution System", BroadcastAsia2003, Singapore, June 2003.
- 2 P. Meron, "Advanced Statistical Multiplexing", Digital TV Seminar, ABC-ESPN, Connecticut, USA, November 2002.
- 3 P. Meron, "Digital Platforms for the World Cup Games", BroadcastAsia2002, Singapore, June 2002.
- 4 P. Meron, "Digital TV Distribution System for Far East of Russian Federation", Moscow, June 2002.
- 5 P. Meron, "Digital Video Transmission System for World Cup (Mondial) 2002", Invited Guest Lecture at the Technion, Haifa, SIPL annual meeting, June 26, 2002.
- 6 P. Meron, "New Generation Digital Cable Network" Convergence 2002, February 2002.
- 7 P. Meron, "Conditional Access for Contribution Links", BES Expo 2001, New Delhi, India, February 1-3, 2001.
- 8 P. Meron, "DVB Satellite Contribution Systems", BES, New Delhi, India, February 2-4, 2000.
- 9 P. Meron, "DSNG - Digital Satellite News Gathering", BCMA '99, Bangalore, India, 24th & 25th September '99.

- 10 P. Meron, "Technical Requirements in IRD's of Applications in Small, Medium & Large Networks ", Broadcasting and Multimedia, Bangalore, India, 25th-26th September 1998.
- 11 P. Meron, "Digital Video - MPEG-II, Technology, Service and Implementation", ITU Int. conference on Multi-Media Applications, Tel-Aviv, June 15-17, 98.
- 12 P. Meron, "Digital Satellite News Gathering ", Third Israeli Communication conference, Tel-Aviv, 15-17 June 22, 98.
- 13 P. Meron, "Implementation of MPEG-II / DVB System ", DAB in EUROPE and in ISRAEL, Int. conference, May 97.
- 14 P. Meron and A. Amitay, "Standard MPEG Solution for Wireless Cable Digital Links", 1st Annual Wireless Cable Technical Symposium, Tampa, Florida, February 4-6, 1995.
- 15 P. Meron and R. Ianconescu, "Advanced Video Communication Links for Unmanned Aerial Vehicles", UV'94 European Aerial Vehicles Conference, Paris, 16-17 June 1994.

C. PAPERS PRESENTED AT SCIENTIFIC MEETINGS (UNPUBLISHED)

- 1 A. Amitay and P. Meron, "Multiplexer Function and Network Management ", Tadiran internal document I.A. 18, 1996.
- 2 A. Amitay and P. Meron, "Advanced image compression techniques", Tadiran internal document I.A. 11, 1995.
- 3 P. Meron and A. Amitay, "Pay per view in video transmission system", Tadiran internal document I.A. 14, 1995.
- 4 A. Amitay and P. Meron, "Error Resilience ", Tadiran internal document I.A. 13, 1995.
- 5 P. Meron and A. Amitay, "Digital Solution for Wireless Cable TV", Tadiran internal document I.A. 15, 1995.
- 6 A. Amitay and P. Meron, "Clock Accuracy Requirements in MPEG-II", Tadiran internal document I.A. 16, 1995.
- 7 A. Amitay and P. Meron, "Errors Frequency in Packet-Based Channel", Tadiran internal document I.A. 7, 1994.
- 8 P. Meron and A. Amitay, "Error resilient transmission of video data in noisy channels", Tadiran internal document I.A. 10, 1994.
- 9 R. Ianconescu and P. Meron, "Spectral analysis of ON-OFF keying signals", Tadiran, Internal Document, February 1993.
- 10 P. Meron and R. Ianconescu, "Compressing still pictures sequences using S-MK algorithm", Tadiran, Internal Document, April 1993
- 11 R. Ianconescu and P. Meron, "Still compression using Z-MT algorithm", Tadiran, Internal Document, May 1993.
- 12 P. Meron "TAGS time division in toll roads", TADIRAN, internal publication, July 1993.
- 13 P. Meron and R. Ianconescu, "Modified ask spectrum", Tadiran, Internal Document, August 1993.
- 14 P. Meron and R. Ianconescu, "Meeting FCC Regulations in the CALTRAN Project", Tadiran, Internal Document, August 1993.
- 15 A. Reichman and P. Meron, "Precise location based on transponders", TADIRAN, internal publication, September 1993.

- 16 R. Ianconescu and P. Meron, "Cyclic Redundancy Check for MK algorithm, Tadiran, Internal Document, September 1993.
- 17 R. Ianconescu and P. Meron, "Convolutional Codes for MK algorithm, Tadiran, Internal Document, September 1993.
- 18 H. Magal, R. Ianconescu and P. Meron, "Error resilience capabilities of MK algorithm", Tadiran, Internal Document, October 1993.
- 19 R. Ianconescu, H. Magal and P. Meron, "Hardware implementation of MK algorithm", Tadiran, Internal Document, October 1993.
- 20 A. Amitay and P. Meron, "MPEG-II coding with limited buffer size", Tadiran internal document I.A. 3, 1993.
- 21 P. Meron and A. Amitay, "Objective quality scales for measuring the quality of image reconstruction", Tadiran internal document I.A. 1, 1993.
- 22 A. Amitay and P. Meron, "Comparison of coding different complexity GOP's", Tadiran internal document I.A. 4, 1993.
- 23 P. Meron and A. Amitay, "Motion estimation block matching techniques and their use in different MPEG-I simulation encoders", Tadiran internal document I.A. 6, 1993.
- 24 P. Meron and R. Ianconescu, "The optimum threshold for the correlators in MK algorithm", Tadiran, Internal Document, April 1992.
- 25 P. Meron and R. Ianconescu, "Video and still compression using VLC", Tadiran, Internal Document, July 1992.
- 26 P. Meron and J. Cohen, "An improved algorithm for DCT control in video compression", TADIRAN, internal publication, 1991.
- 27 P. Meron and J. Cohen, "An algorithm for buffer control in video compression", TADIRAN, internal publication, 1991.
- 28 P. Meron and J. Cohen, "Evaluation of bit production and balance during video compression", TADIRAN, internal publication, 1990.

D. PATENTS

- 1 "System and Method for the Application of a Statistical Multiplexing Algorithm for Video Encoding", US Serial No 09 / 899159, January 9, 2003
- 2 "Backscattering transponder switchable between a modulator/demodulator and ground", Patent number: 5640687, Issued: June 17, 1997
- 3 "Vehicle service utilization monitoring system and Equipment and methods useful therewith", Patent number: 105796, May 1993