



Albert Macovski

Canon USA Professor of Engineering, Emeritus
Electrical Engineering

Bio

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Electrical Engineering
- Member, Wu Tsai Neurosciences Institute

HONORS AND AWARDS

- Member, Institute of Medicine
- Member, National Academy of Engineering

PROFESSIONAL EDUCATION

- PhD, Stanford University , Electrical Engineering (1968)
- MSc, Polytech Inst of Bklyn , Electrical Engineering (1953)
- BS, CCNY , Electrical Engineering (1950)

Publications

PUBLICATIONS

- **MRI: A Charmed Past and an Exciting Future** *JOURNAL OF MAGNETIC RESONANCE IMAGING*
Macovski, A.
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- **Three-dimensional prepolarized magnetic resonance imaging using rapid acquisition with relaxation enhancement** *MAGNETIC RESONANCE IN MEDICINE*
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- **Prepolarized magnetic resonance imaging around metal orthopedic implants** *MAGNETIC RESONANCE IN MEDICINE*
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- **Magnetic resonance imaging with T-1 dispersion contrast** *MAGNETIC RESONANCE IN MEDICINE*
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- **Noise in MRI** *MAGNETIC RESONANCE IN MEDICINE*
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- **ULTRASONIC DIAGNOSTIC INSTRUMENTS** *SCIENCE*

- Popp, R. L., Macovski, A.
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- **ON THE POTENTIAL USE OF STIMULATED POSITRON EMISSION (SPE) IN THE DETECTION AND MONITORING OF SOME BONE-DISEASES** *MEDICAL PHYSICS*
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 - **ULTRASONIC-IMAGING USING ARRAYS** *PROCEEDINGS OF THE IEEE*
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 - **SCATTER CONSIDERATIONS IN FAN BEAM COMPUTERIZED TOMOGRAPHIC SYSTEMS** *IEEE TRANSACTIONS ON NUCLEAR SCIENCE*
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Steinbach, A., Macovski, A.
1976; 23 (1): 606-612
 - **ENERGY-SELECTIVE RECONSTRUCTIONS IN X-RAY COMPUTERIZED TOMOGRAPHY** *PHYSICS IN MEDICINE AND BIOLOGY*
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1976; 21 (5): 733-744
 - **MEASUREMENT OF SOFT-TISSUE OVERLYING BONE UTILIZING BROAD-BAND ENERGY-SPECTRUM TECHNIQUES** *IEEE TRANSACTIONS ON NUCLEAR SCIENCE*
CHAN, J. L., Alvarez, R. E., Macovski, A.
1976; 23 (1): 551-554
 - **SPSE ANNUAL FALL SYMPOSIUM, SESSION-1 - ADVANCES IN RADIOGRAPHY, WASHINGTON, DC, 24 OCTOBER 1974** *APPLIED OPTICS*
Macovski, A.
1975; 14 (1): 10-10
 - **INTERNATIONAL WORKSHOP ON 3-DIMENSIONAL IMAGE RECONSTRUCTION TECHNIQUES, BROOKHAVEN-NATIONAL-LABORATORY, 16-19 JULY 1974** *APPLIED OPTICS*
Macovski, A., Vest, C. M.
1975; 14 (2): 262-264
 - **IMAGE-PROCESSING AT STANFORD** *NATURE*
Macovski, A.
1975; 257 (5524): 274-274
 - **SELECTIVE MATERIAL X-RAY IMAGING USING SPATIAL FREQUENCY MULTIPLEXING** *APPLIED OPTICS*
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1974; 13 (10): 2202-2208
 - **ENVELOPE INTERFEROMETRY FOR LARGE-SCALE PROCESSING** *APPLIED OPTICS*
Macovski, A.
1974; 13 (11): 2689-2692
 - **GAMMA-RAY IMAGING SYSTEM USING MODULATED APERTURES** *PHYSICS IN MEDICINE AND BIOLOGY*
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