Javier CEBEIRO

jcebeiro@unsam.edu.ar

Escuela de Ciencia y Tecnología - Universidad Nacional de San Martín
Campus Miguelete de UNSAM, Edificio Labocluster
Av. 25 de mayo 1169, (1650) San Martín, Pcia de Buenos Aires, Argentina

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EDUCATION

Ph D in Engineering. Signal and Image Processing (2013-2017).
Universidad Tecnológica Nacional, Facultad Regional de Buenos Aires, Argentina.

Biomedical Engineer (2003-2009).
Universidad Favaloro, Facultad de Ingeniería, Ciencias Exactas y Naturales.
Buenos Aires, Argentina.

EMPLOYMENT

Instituto de Tecnologías Emergentes y Ciencias Aplicadas (ITECA), UNSAM-CONICET, Escuela de Ciencia y Tecnología: San Martín, Buenos Aires, Argentina. ORCID iD 0000-0003-2070-4016

RESEARCH INTERESTS

Image processing, signal processing. Medical imaging. Compton tomography. Radon transforms. Inverse problems.

RECENT PUBLICATIONS

An analytical reconstruction formula with efficient implementation for a modality of Compton Scattering Tomography with translational geometry ;
C. Tarpau, **J. Cebeiro**, M. K. Nguyen, G. Rollet, L. Dumas; Inverse Problems and Imaging; Submitted: June 2021.

On a three-dimensional Compton scattering tomography system with fixed source ;
J. Cebeiro, C. Tarpau, M. A. Morvidone, D. Rubio, M. K. Nguyen; Inverse Problems; Vol.37, 054001, (23 pp), 2021.

Analytic inversion of a Radon transform on double circular arcs with applications in Compton Scattering Tomography ;
C. Tarpau, **J. Cebeiro**, M. K. Nguyen, G. Rollet, M. A. Morvidone; IEEE Transactions on Computational Imaging; Acceptation date: May 2020.

A new concept of Compton Scattering tomography and the development of the corresponding circular Radon transform ;
C. Tarpau, **J. Cebeiro**, M. K. Nguyen, M. A. Morvidone; IEEE Transactions on Radiation and Plasma Medical Sciences; 2019.

New 'improved' Compton scatter tomography modality for investigative imaging of one-sided large objects;
J. Cebeiro, M. K. Nguyen, M. A. Morvidone, A. Noumowé; Inverse Problems in Science and Engineering; Londres: Taylor and Francis Ltd. 2017; Vol. 25; Issue 11; pp. 1676-1696; ISSN 1741-5977.

Back-projection inversion of a conical Radon transform;
J. Cebeiro, M. A. Morvidone, M. K. Nguyen; Inverse Problems in Science and Engineering; Londres: Taylor and Francis Ltd. 2015; Vol. 24; Issue 2; pp. 328-352; ISSN 1741-5977.