



UNIVERSITÀ
DI PAVIA

**Ph.D. Program in Electronics, Computer Science and Electrical
Engineering**

Seminar series
Remote Sensing applied to glaciology

Prof. Carlos Cárdenas Mansilla
Universidad de Magallanes (Chile)

Aula Seminari Magenta – Dipartimento Ingegneria Ind. e dell'Informazione

- 16:00-18:00 April 13th, 2026: Glaciological and remote sensing fundamentals (I)
11:00-13:00 April 15th, 2026: Glaciological and remote sensing fundamentals (II)
14:00-16:00 April 16th, 2026: Physical and biological impacts of glacier dynamics
in the marine systems using EO
14:00-16:00 April 17th, 2026: Polarimetric techniques to map Antarctic Sea ice

Abstract:

This series of seminars introduces students to the basic concepts and fundamentals necessary to understand, in general terms, systems associated to the remote sensing applications, with an emphasis on geophysics applied to glaciology. Modern techniques of remote sensing theory will be analyzed through of studies carried out in different cryosphere environments, including applications of optic and radar systems and analysis techniques used for the detection, capture, and processing of information.

Biography:

Carlos A. Cárdenas Mansilla obtained the degree of doctor (Dr.-Ing) at the Technische Universität Hamburg - Harburg (TUHH), Hamburg, Germany, in December 2006, discussing the topic "High resolution radar system for geophysical and glaciological applications". He is currently the president of the Chilean chapter of the GRSS CHILE of the IEEE and works as a Research Associate in the Directorate of Antarctic Programs of the University of Magallanes, focused on the themes of radioglaciology and remote sensing with emphasis on applications for glaciological use, and information processing through the use of SAR and optical satellite systems.

Organizer
Prof. Paolo Gamba

Ph.D. Coordinator
Prof. I. Cristiani

Seminars in English
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