

1. Record Nr.	UNINA9910484343603321
Titolo	Sampling: Theory and Applications : A Centennial Celebration of Claude Shannon // edited by Stephen D. Casey, Kasso A. Okoudjou, Michael Robinson, Brian M. Sadler
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Birkhäuser, , 2020
ISBN	3-030-36291-4
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (210 pages) : illustrations
Collana	Applied and Numerical Harmonic Analysis, , 2296-5009
Disciplina	780
Soggetti	Fourier analysis Harmonic analysis Numerical analysis Signal processing Image processing Speech processing systems Fourier Analysis Abstract Harmonic Analysis Numerical Analysis Signal, Image and Speech Processing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Claude Shannon: American Genius -- Reconstruction of Signals: Uniqueness and Stable Sampling -- Sampling Theory in a Fourier Algebra Setting -- Sampling Series, Refinable Sampling Kernels, and Frequency Band Limited Functions -- Prolate Shift Frames and Sampling of Bandlimited Functions -- A Survey on the Unconditional Convergence and the Invertibility of Frame Multipliers with Implementation.
Sommario/riassunto	The chapters of this volume are based on talks given at the eleventh international Sampling Theory and Applications conference held in 2015 at American University in Washington, D.C. The papers highlight state-of-the-art advances and trends in sampling theory and related areas of application, such as signal and image processing. Chapters

have been written by prominent mathematicians, applied scientists, and engineers with an expertise in sampling theory. Claude Shannon's 100th birthday is also celebrated, including an introductory essay that highlights Shannon's profound influence on the field. The topics covered include both theory and applications, such as: Compressed sensing Non-uniform and wave sampling A-to-D conversion Finite rate of innovation Time-frequency analysis Operator theory Mobile sampling issues Sampling: Theory and Applications is ideal for mathematicians, engineers, and applied scientists working in sampling theory or related areas.
