

1. Record Nr.	UNINA9910768470303321
Titolo	The Search for ExtraTerrestrial Intelligence : Proceedings of the 2nd SETI-INAf Meeting 2019 // edited by Stelio Montebugnoli, Andrea Melis, Nicolò Antonietti
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2021
ISBN	3-030-63806-5
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (147 pages)
Collana	Springer Proceedings in Physics, , 1867-4941 ; ; 260
Disciplina	574.999
Soggetti	Astronomy Signal processing Computer science - Mathematics Discrete mathematics Physics Planetary science Astronomy, Observations and Techniques Signal, Speech and Image Processing Discrete Mathematics in Computer Science Applied and Technical Physics Planetary Science
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	KLT, A NEW ALGORITHM FOR SETI -- SETI and Temporal Copernicanism -- The Newborn European Astrobiology Institute, a big opportunity for outreach and education -- Cherenkov Telescopes for Optical SETI -- Organics on the rocks: a cosmic origin for the seeds of life -- COGITO in Space -- SETI Program at the Medicina INAF Radioastronomy station: past, present, future of PC based spectrometers -- MOON FAR SIDE PROTECTION, MOON VILLAGE AND PAC (PROTECTED ANTIPODE CIRCLE) -- Exobiolab: Dierent Life on Dierent Planets -- Involvement of the Sardinia Radio Telescope in the Breakthrough Listen Initiatives -- SETI Program at the Medicina INAF Radioastronomy station: past, present, future -- Searching for life on Mars: a brief summary -- Getting Ready

for the SKA SETI -- SETI in rocky exoplanets: Narrowing the search with climate models.

Sommario/riassunto

This book presents the latest knowledge of the newly discovered Earth-like exoplanets and reviews improvements in both radio and optical SETI. A key aim is to stimulate fresh discussion on algorithms that will be of high value in this extremely complicated search. Exoplanets resembling Earth could well be able to sustain life and support the evolution of technological civilizations, but to date, all searches for such life forms have proved fruitless. The failings of SETI observations are well recognized, and a new search approach is necessary. In this book, different detection algorithms that exploit state-of-the-art, low-cost, and extremely fast multiprocessors are examined and compared. Novel methods such as the agnostic entropy and high-sensitivity blind signal extraction algorithms should represent a quantum leap forward in SETI. The book is of interest to all researchers in the field and hopefully stimulates significant progress in the search for extraterrestrial intelligence.
