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Information Gain as a Tool for Assessing Biosignature Missions

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Abstract

We propose the mathematical notion of *information gain* as a way of quantitatively assessing the value of biosignature missions. This makes it simple to determine how mission value depends on design parameters, prior knowledge, and input assumptions. We demonstrate the utility of this framework by applying it to a plethora of case examples: the minimal number of samples needed to determine a trend in the occurrence rate of a signal as a function of an environmental variable, and how much cost should be allocated to each class of object; the relative impact of false positives and false negatives, with applications to Enceladus data and how best to combine two signals; the optimum tradeoff between resolution and coverage in the search for bursters or other spatially restricted signals, with application to our current state of knowledge for solar system bodies; the best way to deduce a habitability boundary; the optimal amount of money to spend on different mission aspects; when to include an additional instrument on a mission; the optimal mission lifetime; and when to follow/challenge the predictions of a habitability model. In each case, we generate concrete, quantitative recommendations for optimising mission design, mission selection, and/or target selection.

Biosignature Level 1 Manual

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Clinical Virology Manual Richard L. Hodinka, Stephen A. Young, Benjamin A. Pinsky, 2016-12-01 The definitive clinical virology resource for physicians and clinical laboratory virologists The clinical virology field is rapidly evolving and as a result physicians and clinical laboratory virologists must have a reliable reference tool to aid in their ability to identify and diagnose viral infections to prevent future outbreaks In this completely revised edition of the Clinical Virology Manual Editor in Chief Michael Loeffelholz along with Section Editors Richard Hodinka Benjamin Pinsky and Stephen Young have compiled expert perspectives of a renowned team of clinical virology experts and divided these contributions into three sections to provide the latest information on the diagnosis of viral infections including ebola HIV and Human papillomavirus state of the art diagnostic technologies including next generation sequencing and nucleic acid amplification methods taxonomy of clinically important viruses such as polyomaviruses and zoonotic viruses This comprehensive reference also includes three appendices with vital information on reference virology laboratories at the Centers for Disease Control and Prevention state and local public health laboratories and international reference laboratories and laboratory systems Additionally a new section Diagnostic Best Practices which summarizes recommendations for diagnostic testing and cites evidence based guidelines is included in each viral pathogens chapter Clinical Virology Manual Fifth Edition serves as a reference source to healthcare professionals and laboratorians in providing clinical and technical information regarding viral diseases and the diagnosis of viral infections

Manual of Molecular Microbiology Randall T. Hayden, Karen C. Carroll, John P. Dekker, Alexander J. McAdam, Donna M. Wolk, 2025-05-30 Your essential guide to design operation management and health care integration of the modern molecular microbiology laboratory This comprehensive resource offers definitive guidance on the operational and interpretive aspects of clinical molecular microbiology Tailored for medical laboratory professionals it provides practical how to guidance for establishing maintaining and advancing molecular microbiology testing services and details the unique expertise required to support infectious disease diagnostics The Manual offers a clear and practical roadmap for topics ranging from selecting appropriate technologies instruments and analytic pipelines to navigating complex interpretive challenges and positioning diagnostic testing services for future clinical and population health needs Beginning with foundational technologies and their clinical applications this book offers accessible overviews of each method s potential implications and emerging roles Subsequent sections dive meticulously into details of laboratory setup design and operations empowering readers with hands on insights for routine and advanced testing methods including advanced sequencing technologies It also tackles the nuanced challenges of interpreting and reporting results from cutting edge diagnostics including those focused on antimicrobial resistance and metagenomics The final section explores the broader impact of molecular microbiology on value based care with discussions on clinical management laboratory stewardship and the future of molecular diagnostics in public health Comprehensive and forward looking the Manual of Molecular Microbiology equips

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Neural Information Processing Biao Luo, Long Cheng, Zheng-Guang Wu, Hongyi Li, Chaojie Li, 2023-11-14 The six volume set LNCS 14447 until 14452 constitutes the refereed proceedings of the 30th International Conference on Neural Information Processing ICONIP 2023 held in Changsha China in November 2023 The 652 papers presented in the proceedings set were carefully reviewed and selected from 1274 submissions They focus on theory and algorithms cognitive neurosciences human centred computing applications in neuroscience neural networks deep learning and related fields

Back to the Future: On the Road Towards Precision Psychiatry Brisa S. Fernandes, Andre F. Carvalho, Stefan Borgwardt, Johann Steiner, 2020-04-24

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Brain-Metabolic Crossroads in Severe Mental Disorders - Focus on Metabolic Syndrome Virginio Salvi, Tomas Hajek, 2019-10-23

Clinical Textbook of Mood Disorders Allan Young, Marsal Sanches, Jair C. Soares, Mario Juruena, 2024-05-23 Mood disorders affect around 1 in 5 people but the diagnosis and management of these conditions can be challenging This practical handbook presents a comprehensive overview of these disorders as well as detailed guidelines for their treatment The handbook takes a transdisciplinary approach to mood disorders focusing not only on the biological aspects but also on psychosocial features of importance for optimal diagnosis and management Content covers nosological considerations historical aspects peculiarities along the lifespan and the associations between mood disorders and other conditions with a focus on their implications for the optimal management of patients Practical and evidence based information is discussed on the role of guidelines related to treatment in selected population groups including youth the elderly and women With a practical reader friendly approach this book will be invaluable for mental health professionals involved in the treatment of patients with mood disorders including trainees from different mental health areas

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