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   Nota di contenuto List of symbols -- Information in events and weight of evidence -- Entropy -- Singularity between two probability measures -- Expected mutual information -- Expected weight of evidence -- Divergence -- Expected mutual information, expected weight of evidence, and divergence for random processes -- Relationships between certain random processes and the singularity between probability measures -- Other expressions for expected mutual information -- Expressing expected weight of evidence for gaussian generalized processes in terms of integral operators -- Comparison between I(RT:ST), WT (HN/HS+N), and JT(N, S+N) for gaussian signals and noise -- Expected mutual information rate -- Rate of expected weight of evidence -- Gaussian processes with equal covariance functions including nonrandom signals in gaussian noise -- Summary of the major results in this survey for gaussian processes, including gaussian signals and noise -- Conclusions and areas for additional research.