COLLINEARITY AND COHERENCE. A GEOMETRIC VIEW OF COMPLEMENTARITY OF MAXIMUM LIKELIHOOD AND MAXIMUM ENTROPY TASKS

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The concept of complementarity of maximum entropy (MaxEnt) and maximum likelihood (ML) tasks, proposed at [1], is in this vignette interpreted from geometrical point of view of algebraic vectors. Two key notions are introduced: collinearity and coherence. In addition to shaping the complementarity into an elegant form the collinearity/coherence concepts offer an elementary answer to the persistent 'Why MaxEnt?' question.

References

[1] M. Grendár and Grendár M.: *On the complementarity of Maximum Likelihood and MiniMax Entropy*, Jour. El. Eng., Vol. 51, No 12/s, pp 46-50, 2000.