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Uncertainty and functionality: two inconcilable concepts in multidisciplinary synergy? (Incertezza e funzionalità: inconciliabile binomio in sinergie multidisciplinari?)

Rend. Semin. Mat., Univ. Politec. Torino 66, No. 3, 185-228 (2008).

The paper is a quite detailed, mostly historic, overview of various, not only probabilistic, types of uncertainty and the corresponding mathematical models. The various uncertainty models relate in particular to various biological problems (Brownian motion, neural networks, muscle response, ...).

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Classification: M60 A30

Keywords: uncertainty; Brownian motion; mathematical modeling in biology; stochastic processes; Wiener process; Ornstein-Uhlenbeck process; logistic map

<http://seminariomatematico.dm.unito.it/rendiconti/66-3.html>