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## ADVANCES IN EFFICIENT DESIGN OF EXPERIMENTS IN ECONOMICS

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## Advances in Efficient Design of Experiments in Economics

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**Abstract:** Amidst concerns about replicability but also thanks to the professionalisation of labs, the rise of pre-registration, the switch to online experiments, and enhanced computational power, experimental economics is undergoing rapid changes. They all call for efficient designs and data analysis – that is, they require that, given the constraints on participants' time, experiments provide information that is as rich as possible. In this Element the authors explore some ways in which this goal may be reached.

**Keywords:** methodology of experiments, choice experiments, adaptive designs in economics, applied Bayesian statistics, optimal designs

**MSC Subject classification:** 91Bxx (Mathematical Economics) 62Cxx (Statistical Decision Theory) 62Kxx (Design of Statistical Experiments) 62Lxx (Sequential Statistical Methods)

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