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Run-Sum Control Charts for Monitoring the Coefficient of Variation

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Highlights:

- We develop the run sum charts for monitoring the coefficient of variation (CV).
- The CV is successfully applied in various scientific and societal disciplines.
- The ARL, SDRL and EARL formulae are derived through a Markov chain approach.
- Optimal designs are based on the deterministic and unknown shift-size conditions.
- New optimal charts' parameters under the zero- and steady-state modes are given.

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