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Monitoring Multivariate Data Streams Using Convex Hull Based Control Charts

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Statistical process monitoring is of vital importance in various fields such as biosurveillance, data streams, etc. This work presents a non-parametric monitoring process aimed at detecting changes in multidimensional data streams. The non-parametric monitoring process is based on the use of convex hulls for constructing appropriate control charts. Results from applying the proposed method are presented and the competitive advantages against other competitors are highlighted.

Type of presentation

Talk

Classification

Mainly methodology

Keywords

Statistical process monitoring, data streams, convex hull.

Primary author: BERSIMIS, Sotiris (University of Piraeus, Greece)

Co-author: Dr ECOMOMOU, Polychronis (Department of Civil Engineering, University of Patras, Patras, Greece)

Presenter: BERSIMIS, Sotiris (University of Piraeus, Greece)

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