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Multivariate Data Analysis in HEP. Successes, challenges and future outlook.

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Extensive use of multivariate techniques has allowed the HEP experiments to improve the information content extracted from their data. This affected both the event reconstruction from the detector response as well as the selection process along a given physics signature. While in many aspects at the forefront of technology, modern statistical analysis tools have only slowly moved from the world of computer science to everyday physics analysis. This presentation reviews multivariate techniques used in HEP, discusses their strengths and challenges, and provides insight into techniques developed elsewhere and their possible usefulness for HEP.

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