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Victoria University PO Box 600, Wellington, 6140, New Zealand. *Parameterized Complexity
Overview.*

Parameterized complexity is a widely applied methodology of coping with computational intractability. It works by containing combinatorial explosions by limiting parameters, and the result is an extended dialog with the problem at hand. This dialog uses a rich positive toolkit combined with various completeness programs. The result is that modulo certain complexity assumptions, we can even have optimal running times for algorithm s, at least up to an O factor. This talk will give a brief survey of the area with an eye towards areas of mutual interest between the incremental and multivariate groups. (Received September 05, 2012)