



## **Extending the Double Difference location technique for mining applications: Numerical study.**

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Seismic events location is the first issue for any seismological data analysis. An accuracy of the achieved solutions can influence further studies, thus a new more efficient and accurate location algorithms are still demanded. Nowadays using the Double – Difference (DD) location technique gives more realistic results than other methods when applied to spatially clustered seismic events, like aftershocks, etc. However, the technique imposes quite strong constraints on data availability and recording conditions which can seldom be fulfilled in case of induced seismicity. To adopt the technique for such applications we propose to extend it as it is presented in this work.