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(57) Abstract :

The present invention discloses a system and method for performance analysis of mines using OITDS (Operator Independent Truck Dispatch System). The present invention and implemented algorithm provided by a processor, the computer-readable storage medium storing computer-executable instructions that, when executed by a computer, cause the computer to perform a method performs the various steps by using an optimizer module at computation server and further, implemented by truck modules on the field; ETA and queue information is used to generate assignments to shovels; truck modules are optionally to make assignment decisions in case the network or the system are down; historical dig rates/parameters are maintained for each shovel to avoid under or over feeding. Further, the optimizer module is based on the linear programming to compute optimal shovel to dump routing to maximize production.

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