Input structure: Machine scheduling in underground mining: An application in the potash industry

## Symbols

Symbol	Denotes
$\overline{ J }$	Number of jobs, $j = 1, \dots,  J $
U	Number of underground locations
$ J^u $	Number of jobs that belong to underground
	location $u \in U$
K	Number of production stages
$ M^k $	Number of parallel machines at stage $k \in K$
$p_{jmk}$	Processing time of job $j \in J$ on machine $m \in M^k$ at
	stage $k \in K$
D	Number of jobs that do not start at the first
	production stage, $i = 1, \dots,  D $
$\kappa_i$	Production stage at which job $i \in D$ will be processed
	at the beginning of the planning period, i.e., $1 < \kappa_i \le 8$
$\hat{C}_i$	Completion time of job $i \in D$ at the first production stage,
	$\hat{C}_i \le 0$