

The power of simple scheduling policies

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The power of simple scheduling policies

door

Cyriel Rutten

1. The power of the relatively simple algorithms, much implemented in practice, is often surprising (All chapters).
2. Never try to walk across a river just because it has an average depth of one meter [Martin Friedman]. (Chapter 2)
3. Although applying the lexjump neighborhood algorithm to minimize the makespan on either unrestricted related parallel machines or on restricted identical parallel machines is equally hard in worst case, the former problem setting seems easier. (Chapters 2 & 3)
4. In routing games the expected quality of a policy might improve if some users slightly deviate from that policy. (Chapter 3)
5. For deriving constant factor approximation algorithms for feasibly scheduling tasks on parallel machines it is enough to evaluate a task's demand bound function only at a constant number of points in time and afterwards approximate this function with the task's utilization. (Chapters 4 & 5)
6. There are risks and costs to a program of action. But they are far less than the long-range risks and costs of comfortable inaction [John F. Kennedy]. (Chapter 6)
7. Making a good schedule is not the trick, living up to any schedule is.
8. Determining optimal lotsizes for a given schedule is not too difficult. Nor is finding an optimal schedule when the lots and their sizes are known. Doing both at the same time is a real puzzle. (Scheduling in a complex setting, Cyriel Rutten, Master thesis written at Maastricht University and DSM ACES, 2008)
9. Operations research is the art of efficiently organizing real life operations and activities. The bond between a (former) phd-student and his or her supervisor should be the way to take real life problems back to academia.
10. Als ge vreugd wilt vermenigvuldigen, dan moet ge haar delen.