

# Machines and Resources

Helmut Simonis

## Constraint Based Production Scheduling

This work is licensed under the Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International License. To view a copy of this license, visit <https://creativecommons.org/licenses/by-nc-sa/4.0/>.

This license requires that reusers give credit to the creator. It allows reusers to distribute, remix, adapt, and build upon the material in any medium or format, for noncommercial purposes only. If others modify or adapt the material, they must license the modified material under identical terms.



# Acknowledgments



This publication was developed as part of the ENTIRE EDIH project, which received funding from Enterprise Ireland and the European Commission.

Part of this work is based on research conducted with the financial support of Science Foundation Ireland under Grant number 12/RC/2289-P2 at Insight the SFI Research Centre for Data Analytics at UCC, which is co-funded under the European Regional Development Fund.

# Key Points



-

# Outline



Disjunctive Resources

Cumulative Resources

Machine Choice

Work in Progress and Planned Downtimes

Calendars

Summary

# Outline



Disjunctive Resources

Cumulative Resources

Machine Choice

Work in Progress and Planned Downtimes

Calendars

Summary

# Outline



Disjunctive Resources

Cumulative Resources

Machine Choice

- Identical Machines

- Machine Dependent Speed

- Machine Preferences

Work in Progress and Planned Downtimes

Calendars

Summary

# Outline



Disjunctive Resources

Cumulative Resources

Machine Choice

Work in Progress and Planned Downtimes

Calendars

Summary



# Outline



Disjunctive Resources

Cumulative Resources

Machine Choice

Work in Progress and Planned Downtimes

Calendars

Summary

# Outline



Disjunctive Resources

Cumulative Resources

Machine Choice

Work in Progress and Planned Downtimes

Calendars

Summary

# Summary



-