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ENTIRE EDIH

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UCC's Skills Development Program



AI Literacy and the AI Act



- From AI, to Ethics, to Regulation
- One day course run by B. O'Sullivan
- First iteration ran in November 24
- Hybrid event format

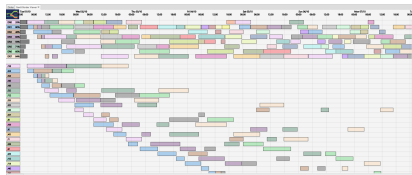


- Evaluation of AI systems
- Ethics for AI
- An overview of the AI Act
- Assessment List for Trustworthy AI

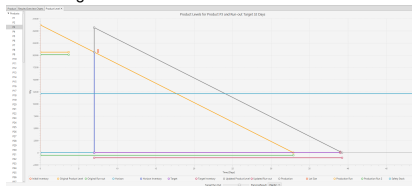
AI Fundamentals: Constraint Based Production Scheduling



- Second iteration runs next week
- In person event
- Presentation of problem constraints
- A generic scheduling tool
- Visualization techniques
- Industrial case studies
- Future iterations on demand



Scheduling Tool: Machine and Job Gantt Chart

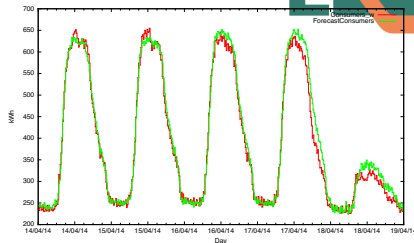


Production Planning Example

Energy Cost Management



- One day event in May
- In person
- How to exploit time variable energy prices
- Using energy storage
- Predicting production, demand and prices
- Case studies



Predicting UCC Campus Electricity Demand
Hourly Irish Wholesale Electricity Price



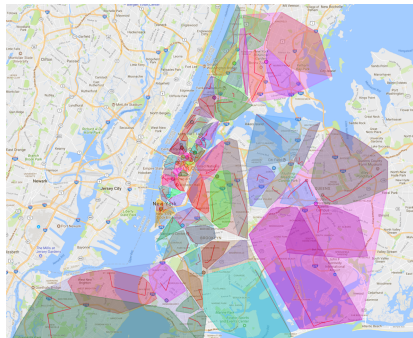
Time Variable Electricity Price

AQuA - Any Questions Answered



- One hour sessions on specific topics
- In planning
- One session per month
- In person, online or hybrid
- Reacting to demand of SME/PSO

- Problem types
 - Tour limited
 - Capacity limited
 - On-line problems
- Predicting travel times
- Industrial case studies
 - Scheduling maintenance visits
 - Car transport in Ireland

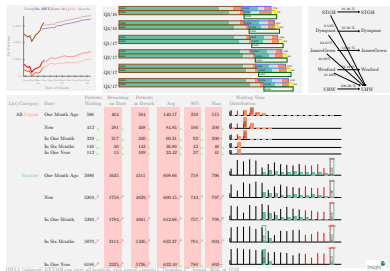


Elevator Maintenance Planning in NYC

Rostering and Personnel Assignment



- Problem types
 - Rostering
 - Timetabling
 - Capacity planning
- Solution methods
- Case studies



Outpatient Capacity Planning Dashboard