



Coherent-by-construction Multi-label Classification Networks

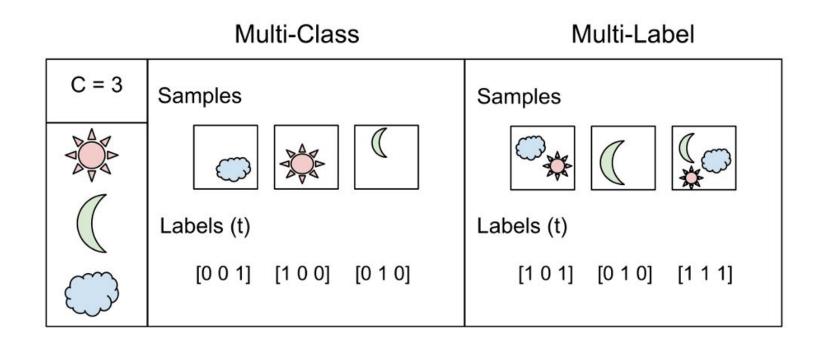
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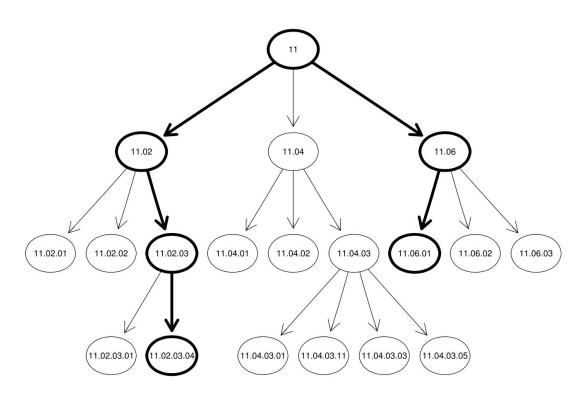


Multi-label classification



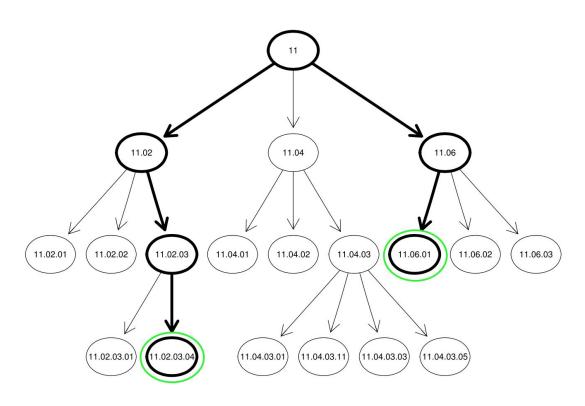


Hierarchical Multi-Label Classification



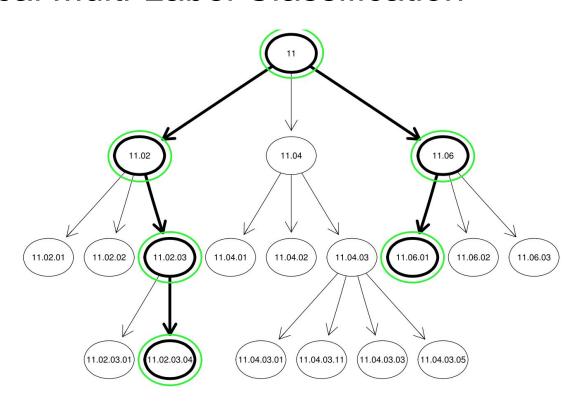


Hierarchical Multi-Label Classification





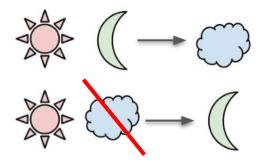
Hierarchical Multi-Label Classification





Logically Constrained Multi-label Classification

A logically constrained multi-label classification problem is a MC problem with a finite set of constraints expressed as normal rules.





Our Solution: CCN(h)

Predictions guaranteed Easily implementable on to be coherent with the **GPU** constraints **Features** State-of-the-art results





Thank you!