## **Accepted Manuscript**

Hierarchical Task Network Planning with Common-Sense Reasoning for Multiple-People Behaviour Analysis

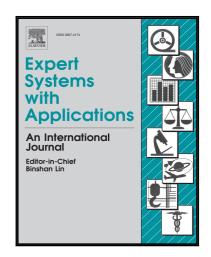
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#### ACCEPTED MANUSCRIPT

#### Highlights

- A distributed-common sensical approach for human activity recognition is proposed.
- The approach relies on video and sensor analysis enriched with common sense
- Sequences of spatio-temporal actions are interpreted as causal explana-
- Parallel causal explanations are tracked although just one is eventually considered.

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