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Jorge et al: Bayesian network

A or B or C



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ACTIVE NODES AT |? **PROBLEM 2: GROWTH OF NETWORK** (a) Each new track inherits labels plus adds a new one: network grows large Solution: freeze all but N ? nodes Freeze: fix most probable identity for track S_i rather than keep all possible ids (which could change with future evidence) (b)(c)©2014, School of Informatics, University of Edinburgh ©2014, School of Informatics, University of Edinburgh Slide 15/15 Persistent Tracking

SUMMARY

Problem with occlusion: lose identity

Formulate matching problem as a Bayesian network

Use ? matching for image evidence

Propagate probability of identity through network

Periodically 'freeze' network to limit computational complexity

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