

# Intelligent Systems: Reasoning and Recognition

James L. Crowley

MoSIG M1

Winter Semester 2020/2021

Exercise 6

6 March 2021

Assume the following temporal relations between intervals A, B, C and D.

Event A after Event B:  $(A > B)$

Event B meets event C:  $(B m C)$

Event D is after event A:  $(D > A)$

Event D finishes event C:  $(D f C)$

- a) What are the possible relations of A to C obtained by transitivity with B?
- b) What are the possible relations of A to C obtained by transitivity with D?
- c) What are the possible relations of A to C after constraint propagation?