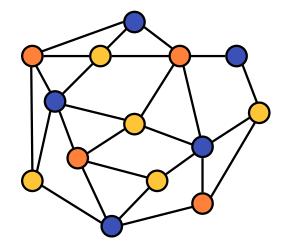
# Error-sensitive proof-labeling schemes

Laurent Feuilloley joint work with Pierre Fraigniaud Université Paris Diderot

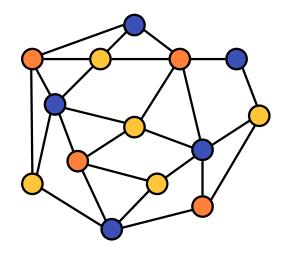
HALG · June 2018 · Amsterdam

originally presented at DISC 2017

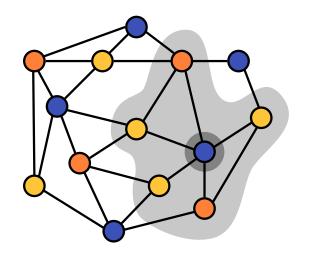
# Is it properly colored?



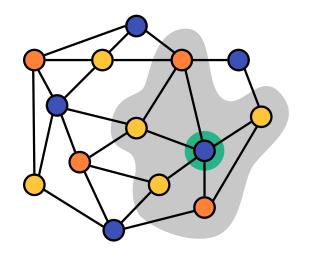
#### Let the nodes decide...



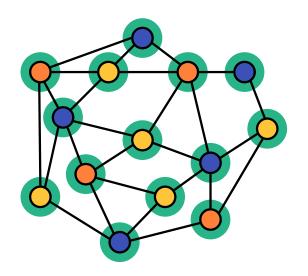
## (1) Take a look



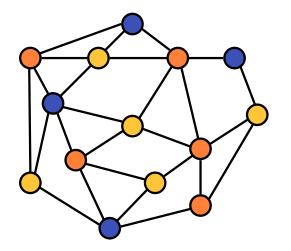
# (2) Output a decision



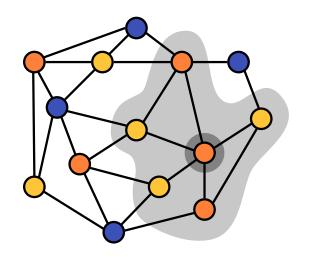
# **Uniform accept**



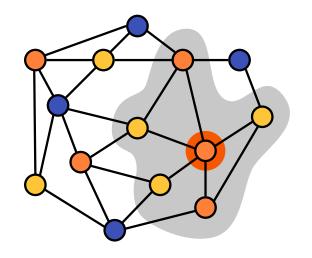
#### On a bad instance



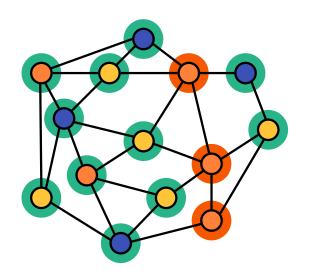
## (1) Take a look



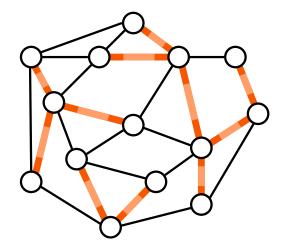
# (2) Output a decision



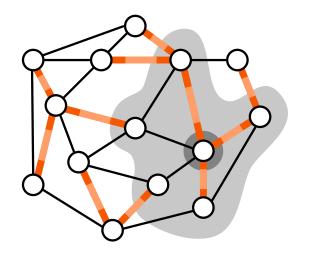
### Reject by veto

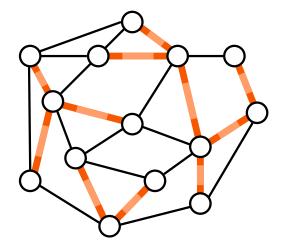


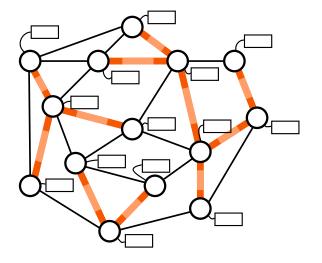
# And spanning forest?

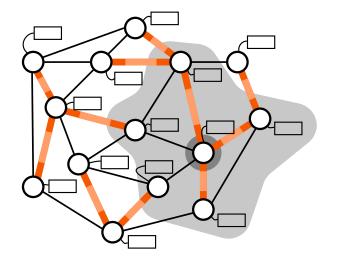


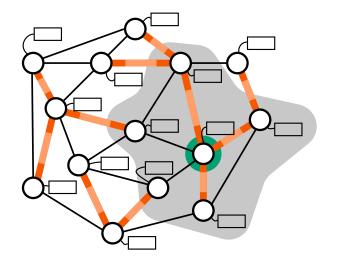
### Not so easy...









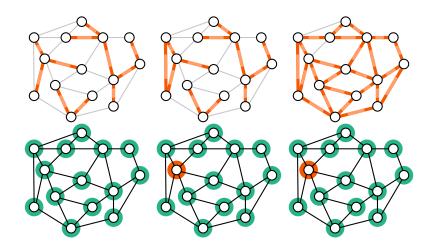


## (A slide with text)

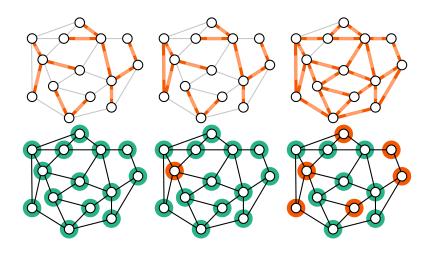
For every labeled graph:

- ▶ If it is good :
  - ∃ certificate assignment s.t.
  - every node accepts
- ▶ If it is bad :
  - ∀ certificate assignment, at least one node rejects.

#### Three instances



## How (in)sensitive?



# See you at the poster session!

The poster looks like this  $\rightarrow$ 

