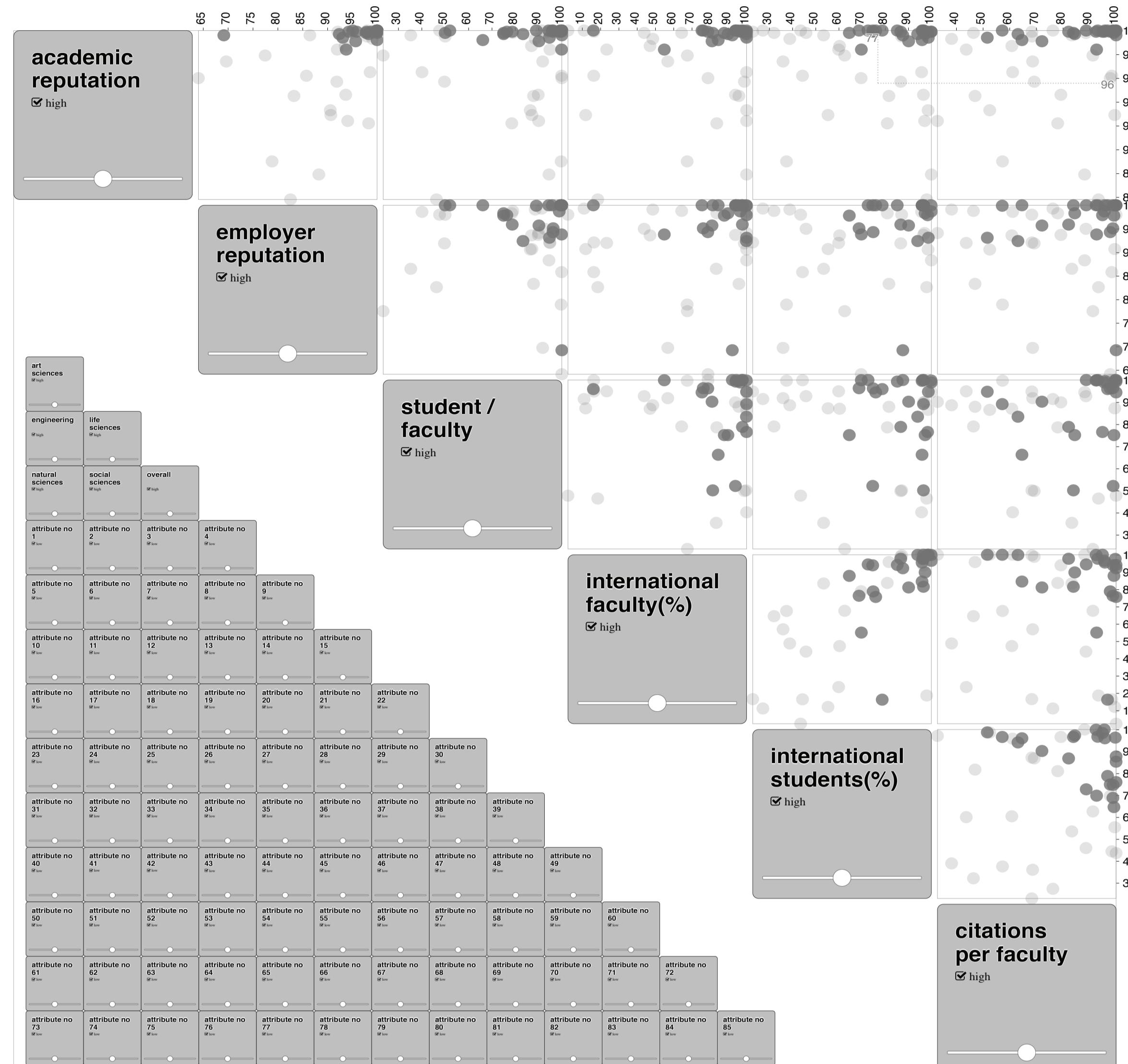
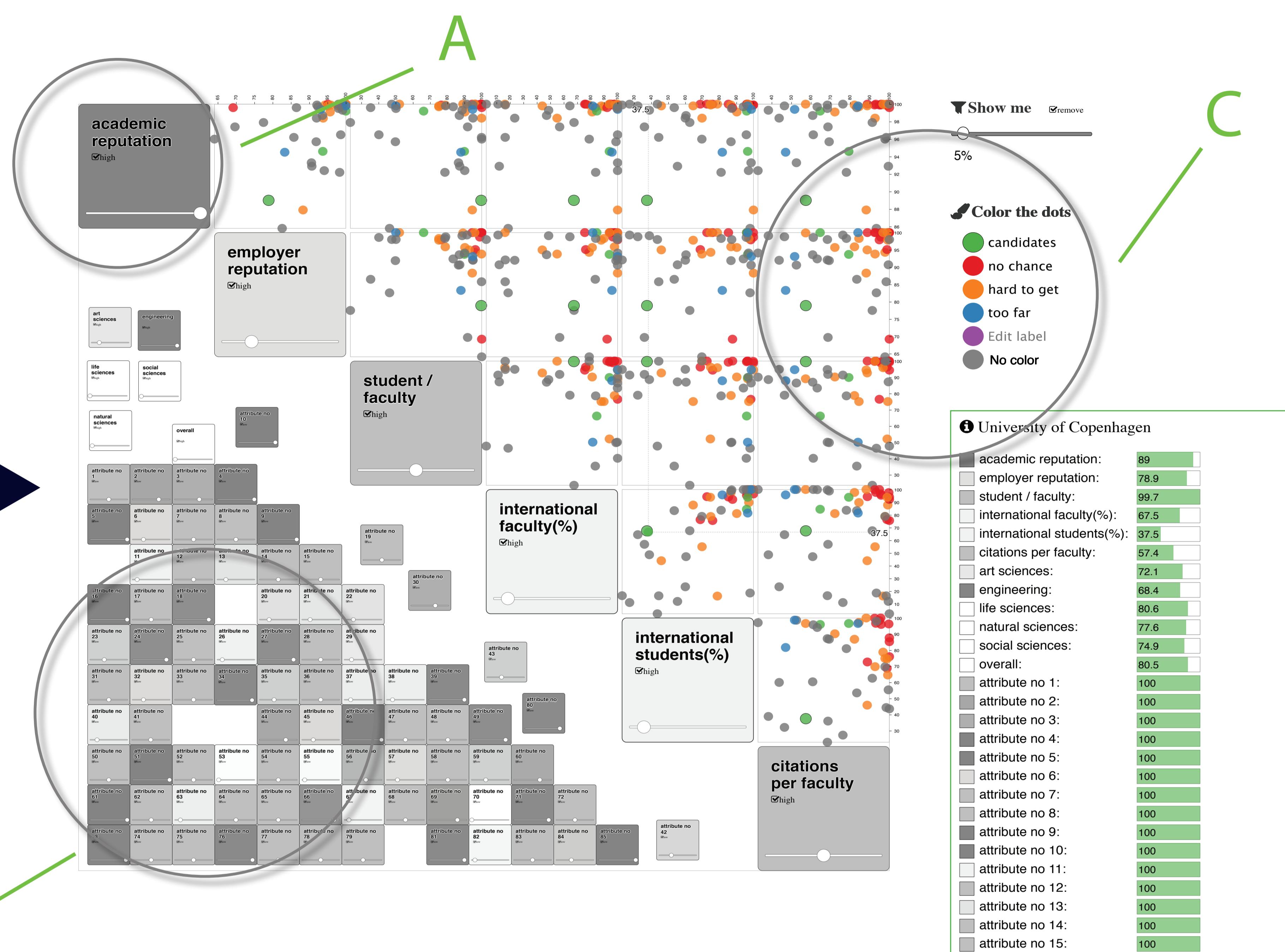


DcPAIRS: A Pairs Plot Based Decision Support System

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THE PROBLEM

Most decision support visualization systems use colors to map multiple attributes across coordinated views

- 1 color = semantics (e.g. red for danger)
 - biases decisions
 - 2 qualitative color palettes
 - limited scalability

OUR APPROACH

- decision alternatives shown in a compact Generalized Pairs Plot (Emerson et. al, 2013)
 - attributes as shaded boxes; on the diagonal for a detailed view [A] others in a pixel map overview [B]
 - attribute importance weights in a continuous gray scale expressing preferences as relative tendencies rather than precise values ■ ■ ■ ■
 - colors used for user-authored annotations [C] to support all stages of decision process

CONTRIBUTION

DcPAIRS: Visualization system for decision support

- high number of decision attributes (>100)
 - user-authored annotations
 - communication of uncertainty in user preferences
 - compact overview
 - flexible multi-attribute decision space

CONTACT



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