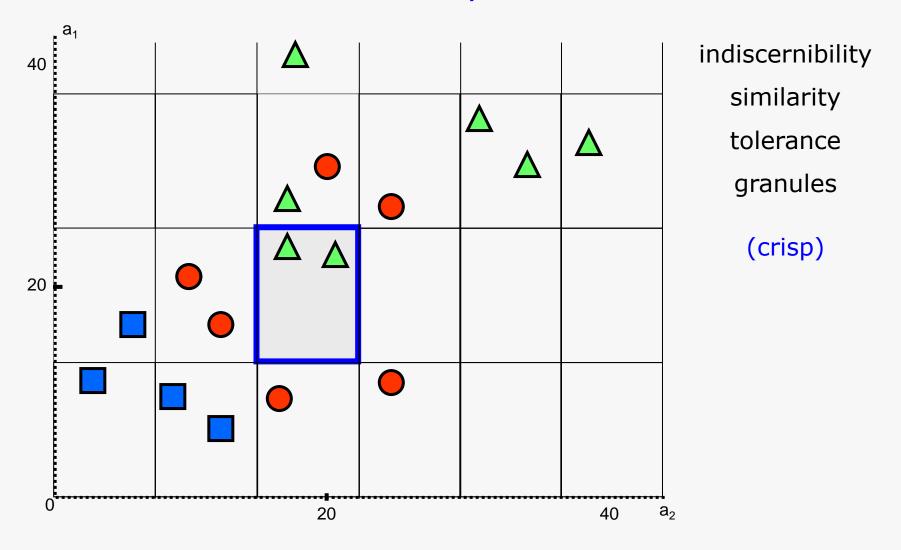
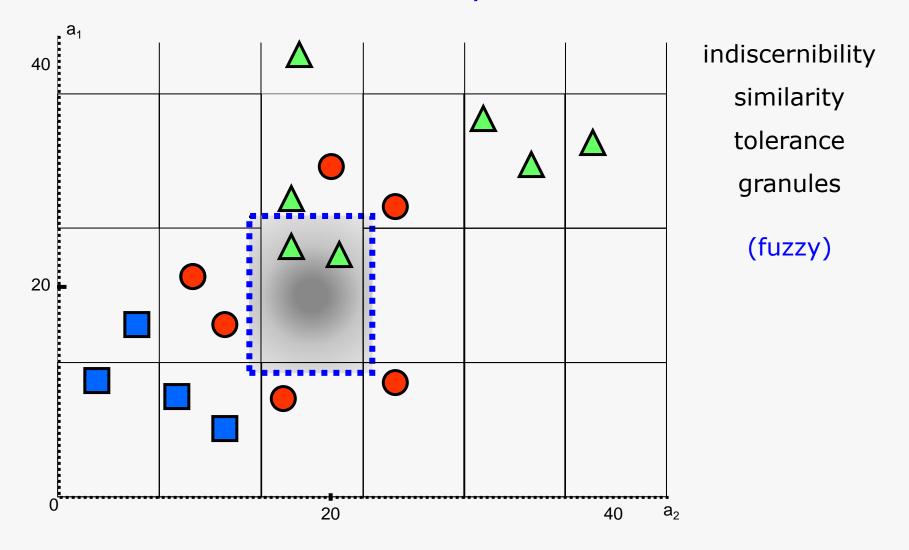
Roman Słowiński

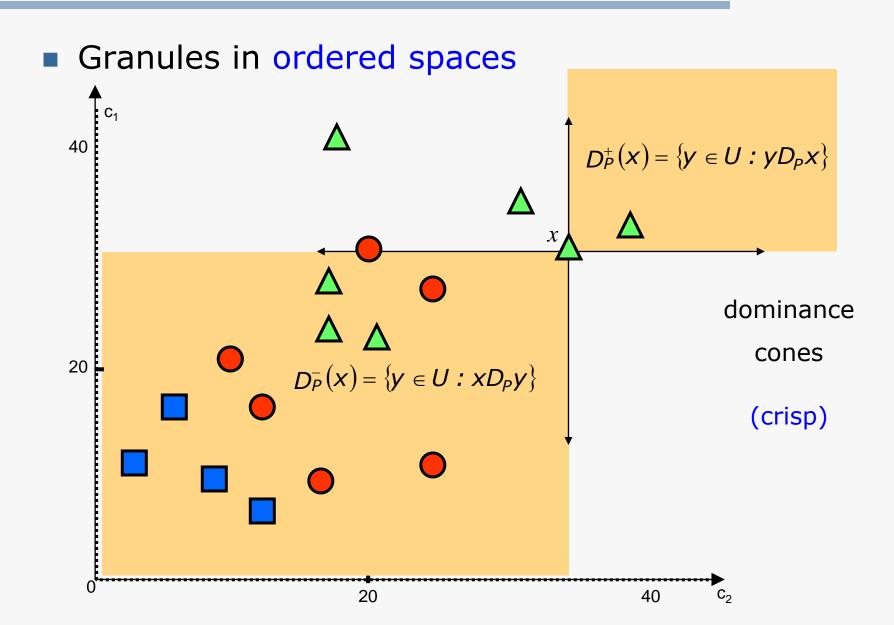
- Rough set understanding of granular computing:
- Granules are blocks of knowledge used for :
 - approximation of concepts (sets)
 - representation of concepts in terms of rules

Granules are not necessarily bounded sets

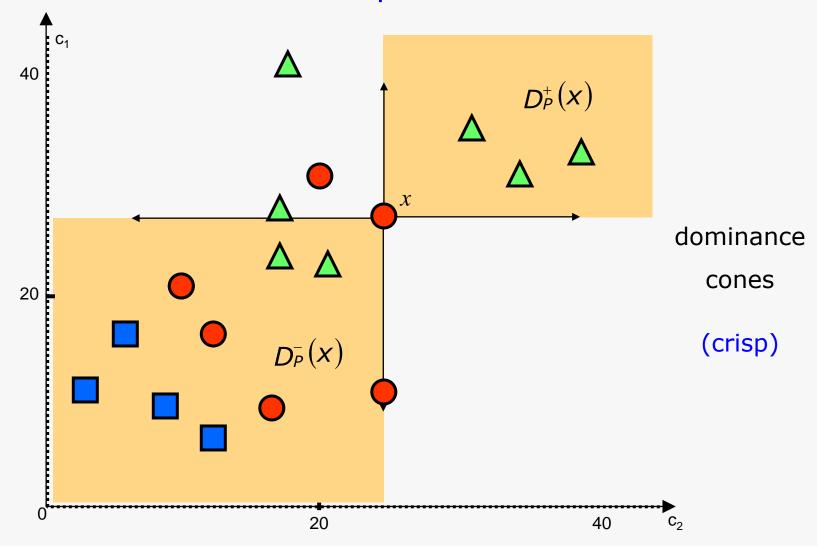


Granules are not necessarily bounded sets

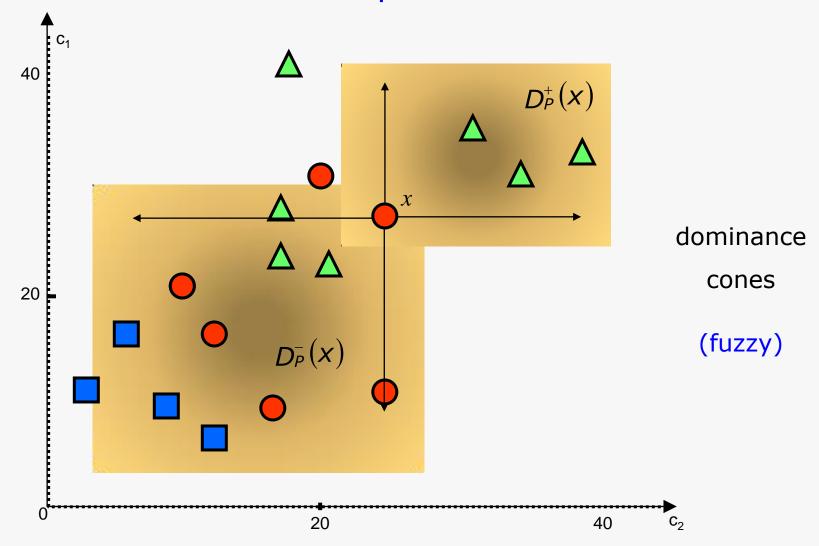




Granules in ordered spaces



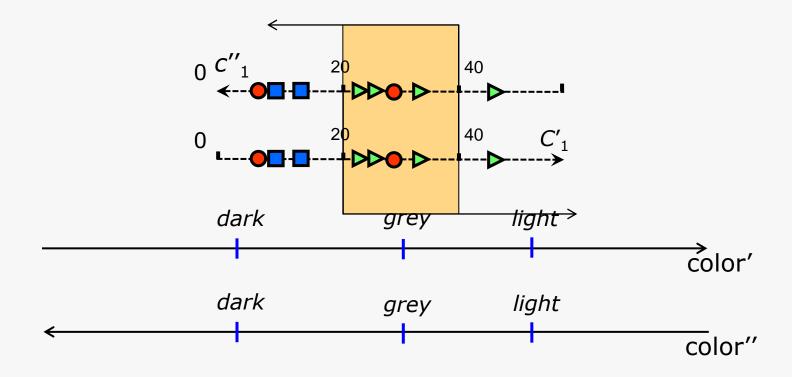
Granules in ordered spaces



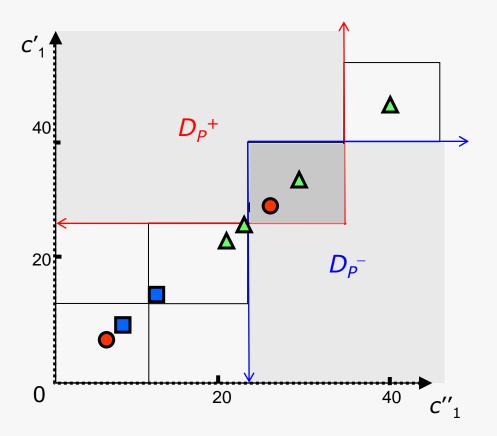
- Obviously, not all spaces are ordered!
- However, dominance cones are useful even then



- Obviously, not all spaces are ordered!
- However, dominance cones are useful even then



- Obviously, not all spaces are ordered!
- However, dominance cones are useful even then



Granular expression of decision rules

If price ≥10.600\$ & color∈{dark, grey}

& size∈{normal, large}, then choice is yes

- Semantically meaningful and justifiable
- Granules are not necessarily numerical
 - J. Błaszczyński, S. Greco, R. Słowiński: Inductive discovery of laws using monotonic rules. *Engineering Applications* of Artificial Intelligence, 2011 (to appear)