

STELLINGEN

behorende bij het proefschrift

BEYOND SCALAR MORPHOLOGY

van

JASPER VAN DE GRONDE

1. The name “false colour problem” should not refer to the appearance of “new” colours, but rather the appearance of the “wrong” colours.
– *Chapter 2*
2. A lack of invariance to certain transformation groups can to a large extent explain why morphological operators based on product orders can return “false colours”.
– *Chapters 2 and 3*
3. Group-invariant morphological operators are feasible to implement, and can improve upon their non-invariant alternatives.
– *Chapters 2, 3, and 4*
4. Absorption and part preservation are critical properties of joins and meets in preserving the meaning of morphological operators.
– *Chapter 6*
5. Path-based morphology does justice to the nature of tensor fields.
– *Chapter 7*
6. Formal properties of operators (like connectedness, anti-extensivity, invariances, etc.) can have important interpretational, and even ethical, implications; it is in these situations that formalisms are most useful.
7. Web technologies and science are a match made in heaven.