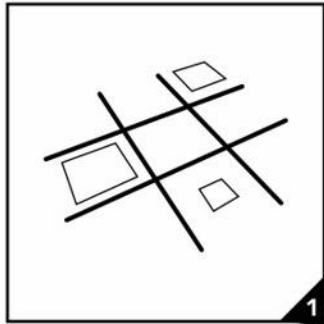


SCHAALMODELLEN

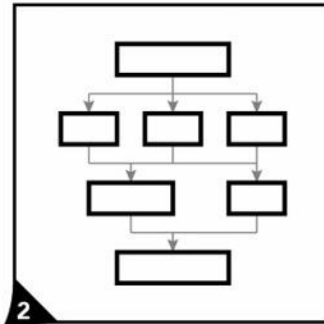
STEDENBOUWKUNDE



1

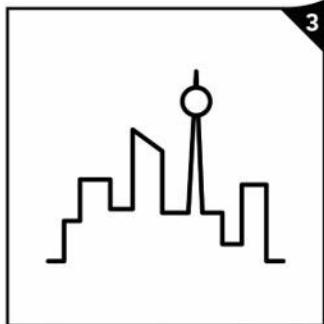
PROGRAMMA MODELLEN

GEBOUWMASSA

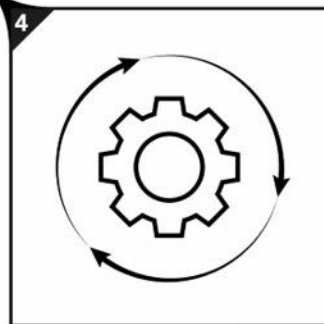


2

parametrisch
ontwerpen
4
toepassings-
gebieden



3



4

SCHETS- EN VOORLOPIG-
ONTWERP MODELLEN

DO & BOUWTECHNOLOGIE
OPTIMALISATIE MODELLEN



Rijksvastgoedbedrijf
Ministerie van Binnenlandse Zaken en
Koninkrijksrelaties

Parametric design

Design by performance

Lezenreeks geïnitieerd door Architectuur & Techniek (A&T) van
het Rijksvastgoedbedrijf in samenwerking met de TU Delft



Rijksvastgoedbedrijf
Ministerie van Binnenlandse Zaken en
Koninkrijksrelaties

Parametric design

*How to achieve better performing
buildings based on technical
perspective – B/ENG + Circularity*

This lecture focuses on the computational perspective for:

- 1) Sustainability / Zero Energy / BENG / how can we frame the market based on these new standards;
- 2) Circularity and how should this become a standard / based on what / how much the building wastes and how much does the building uses / material passports. (Develop buildings made of only material that are circular – how can this topic be treated – not only in terms of traced materials – but also in terms of use less material).
- 3) We look at BENG as something already happening; we look at Circularity as something to be shaped for the near future. Scales in which parametric design can be applied: materials; buildings' components; buildings.

17 september 15.00 – 17.00 uur
Turfmarkt 147, K-2.327



Expected lecturers



> **Prof. dr. ir. Sevil Sariyildiz**
Short introduction (Dutch Speaking)



> **Assist. Prof. dr. ir. Michela Turrin**
Parametric design and optimization (English Speaking)



> **Assoc. Prof. dr. ir. Martin Tenpierik**
Zero Energy / BENG / (Circularity) (Dutch Speaking)



Rijksvastgoedbedrijf
Ministerie van Binnenlandse Zaken en
Koninkrijksrelaties

Parametric design

How to achieve better buildings wellbeing at a district and urban scale

This lecture focuses on the computational perspective for the urban scale: can parametric design be applied at the urban and district scale? How? What can be done at an urban scale?

Can a parametric model of the urban scale be made – in order to change requirements and visualize the consequences? Not only for square meters but also for control of the environment (mixed functions; microclimate;) starting from architectural massing within one plot to district and eventually to full urban level.

24 oktober 15.00 – 17.00 uur
Turfmarkt 147, K-2.327





Expected lecturers



> **Prof. dr. ir. Sevil Sariyildiz**
Short introduction (Dutch Speaking)



> **Assist Prof. dr. ir. Pirouz Nourian**
Parametric design and spatial configurations
(English Speaking)



> **Dr. ir. Sabine Jansen**
Urban configurations and simulations
(Dutch Speaking)



Rijksvastgoedbedrijf
Ministerie van Binnenlandse Zaken en
Koninkrijksrelaties

Parametric design

*How to achieve better buildings when
new production techniques are used*

This lecture focuses on the computational perspective for improving buildings with the potential of new production techniques. What potentials do new production techniques offer to improve buildings? How can architectural design and engineering take advantage of this?

Additive manufacturing is a relevant example. We should highlight the relevance for the building environment. Why to use it/what can it do? But also what the design process should be in order to use advantages of AM. What are the expectations one can have? E.g not a 100 years life span for example. Etc.

26 november, 15:00-17:00
Turfmarkt 147, K-2.327



Expected lecturers



> **Prof. dr. ir. Sevil Sariyildiz**
Short introduction (Dutch Speaking)



> **Ir. Paul de Ruiter**
Overview of production techniques and AM (Dutch Speaking)



> **Assist. Prof. dr. ir. Michela Turrin**
Various applied and inspirational examples and optimization to AM (English Speaking)