

*How depends  
the future on  
the past?*

Kees van Hee

## *Agenda*

- A brief history of Wil and Kees
- Excursions in Petri nets
- Big data and the future



**“Nothing is forever” 1984 – 2018**

Developments in Computer Science / Data Science



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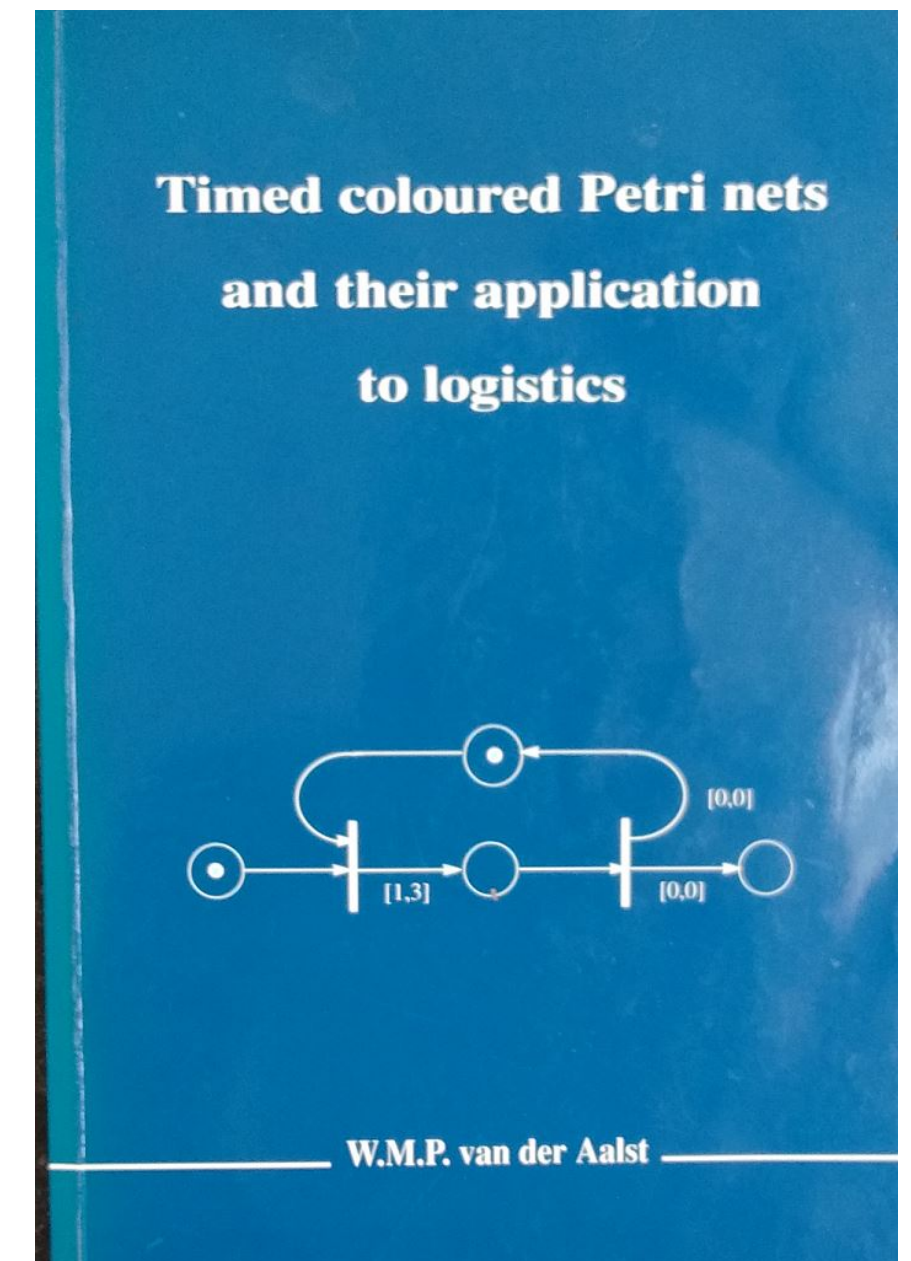
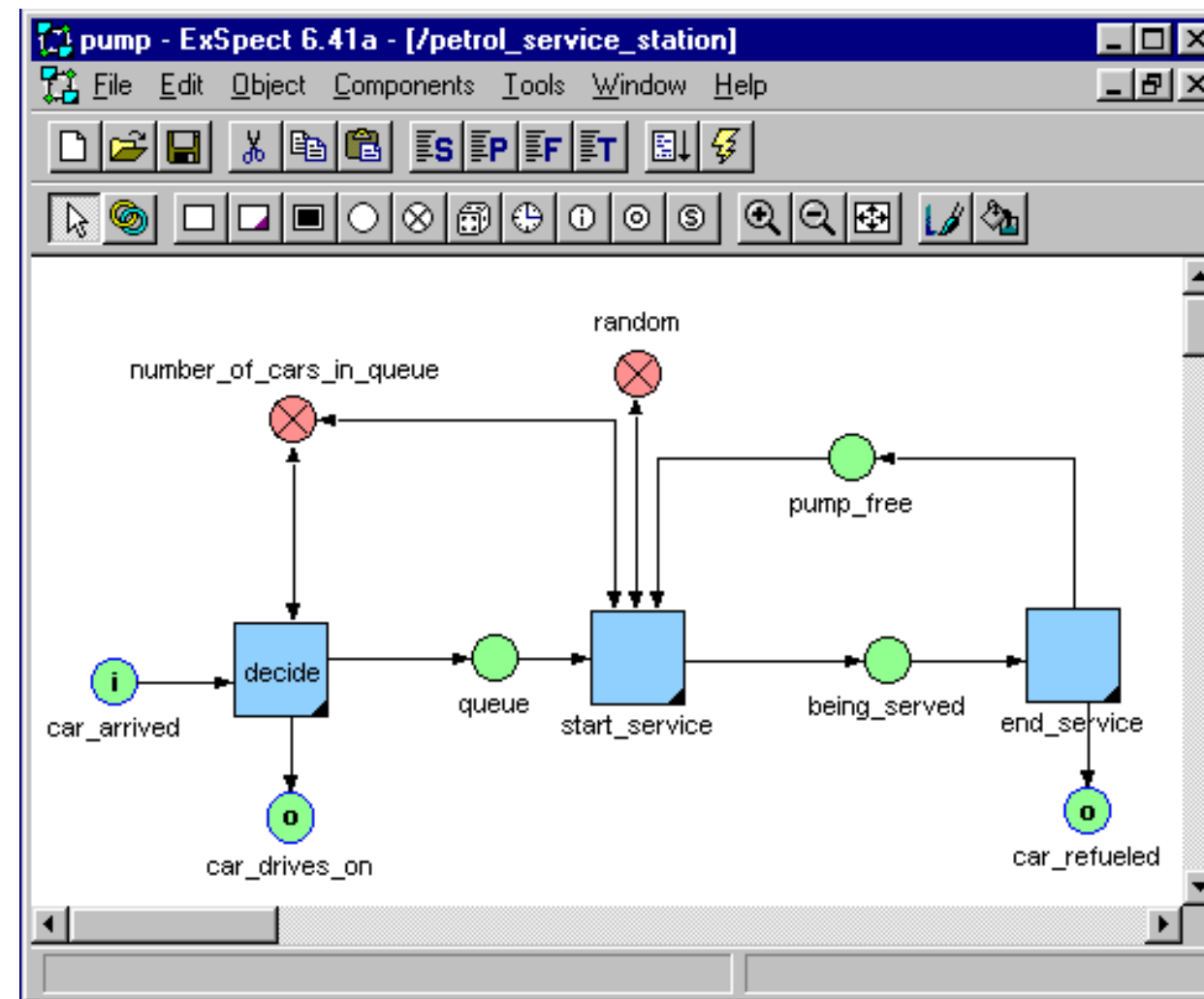
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- Idea: *transform methods in tools* such that practitioners can use the tools without knowing all the details

PhD in 1992  
 Assistant prof 1992  
 Associate prof 1996  
*Wil in other  
 departments  
 I was in industry  
 1994-2004*

- TNO paid us in 1988 for the tool development:  
2 PhD's: Wil and Arno
- Instead of teaching they had a programming task
- I asked Jaap Wessels, my own promotor  
to co-supervise Wil

My chair 2006-2018

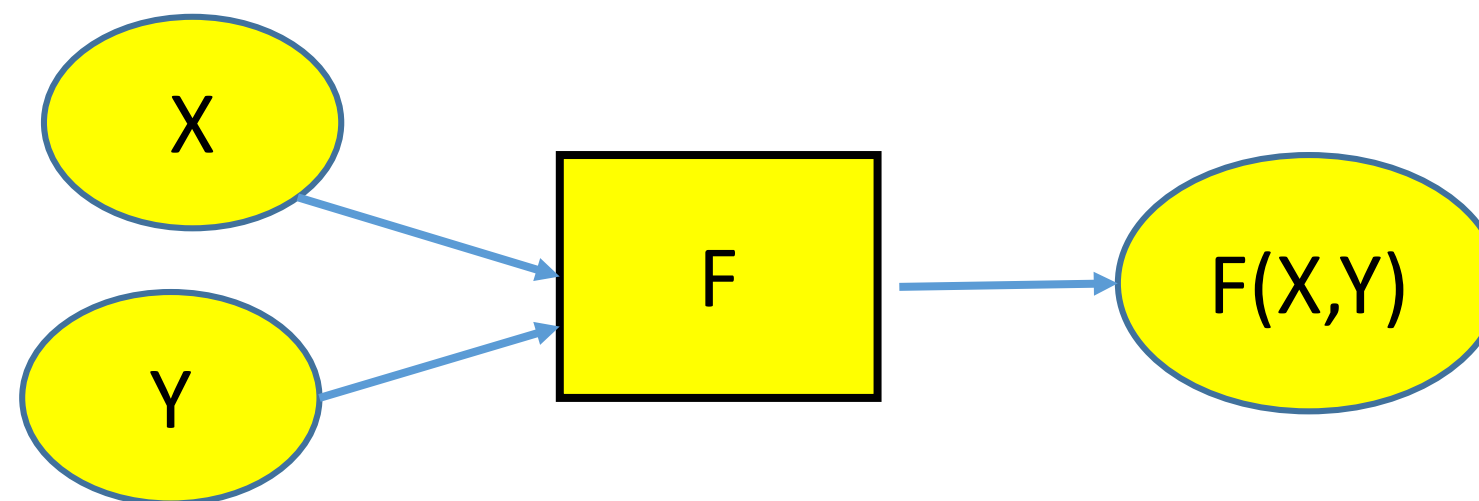
Parttime excursion to  
 Bakkenist  
 Management  
 Consultants  
 1993-1998



**“Nothing is forever” 1984 – 2018**

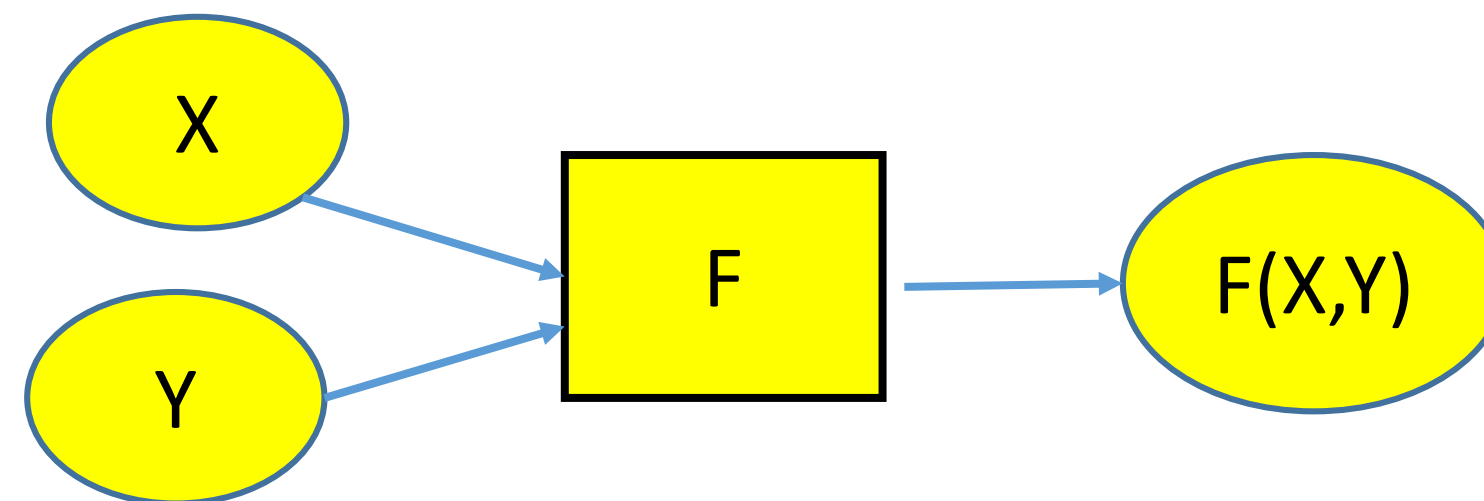
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# Excursions in Petri nets



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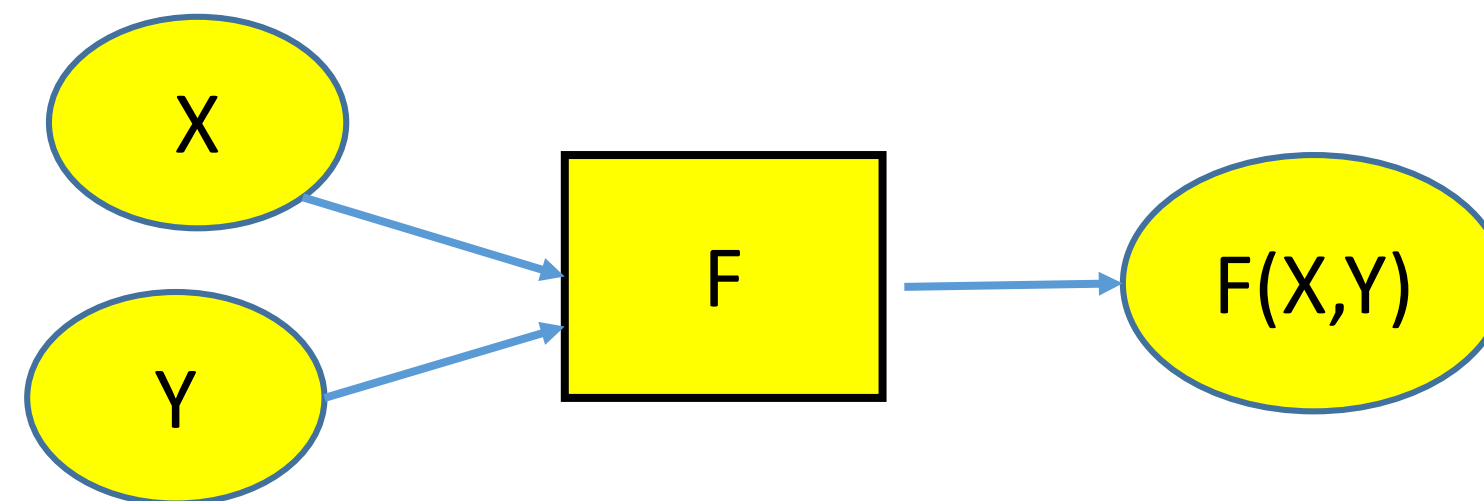


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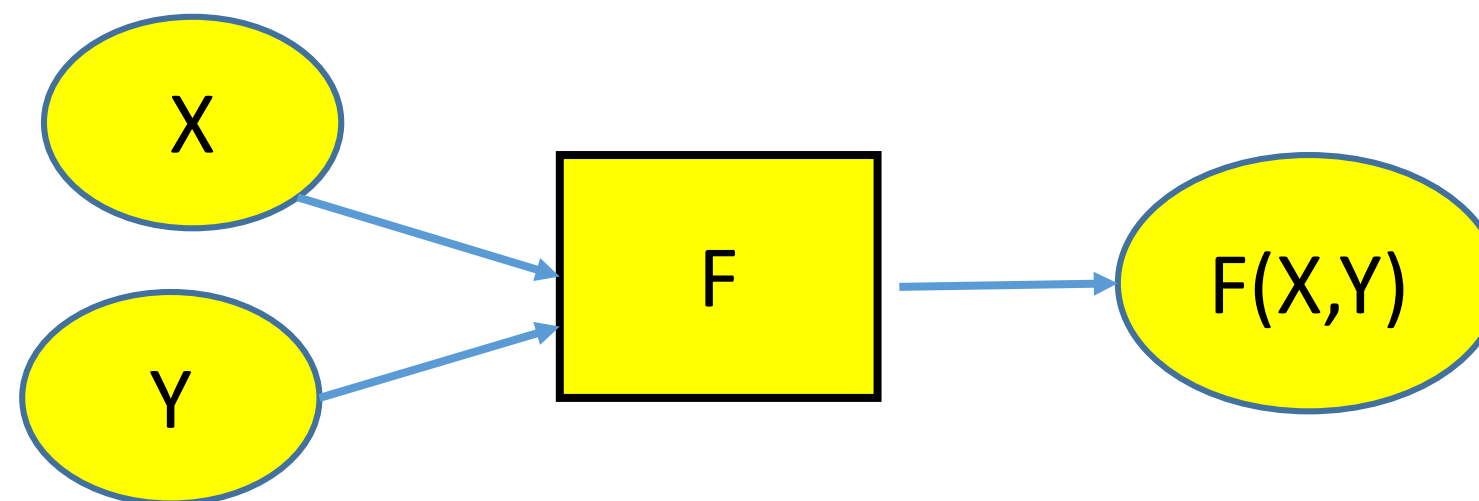
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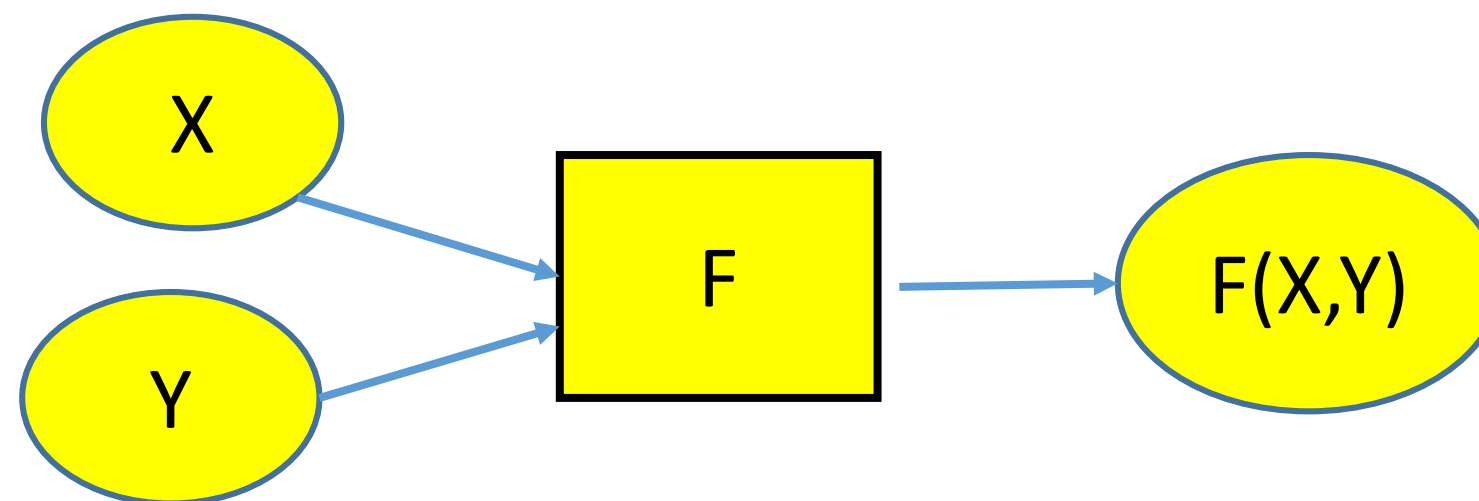
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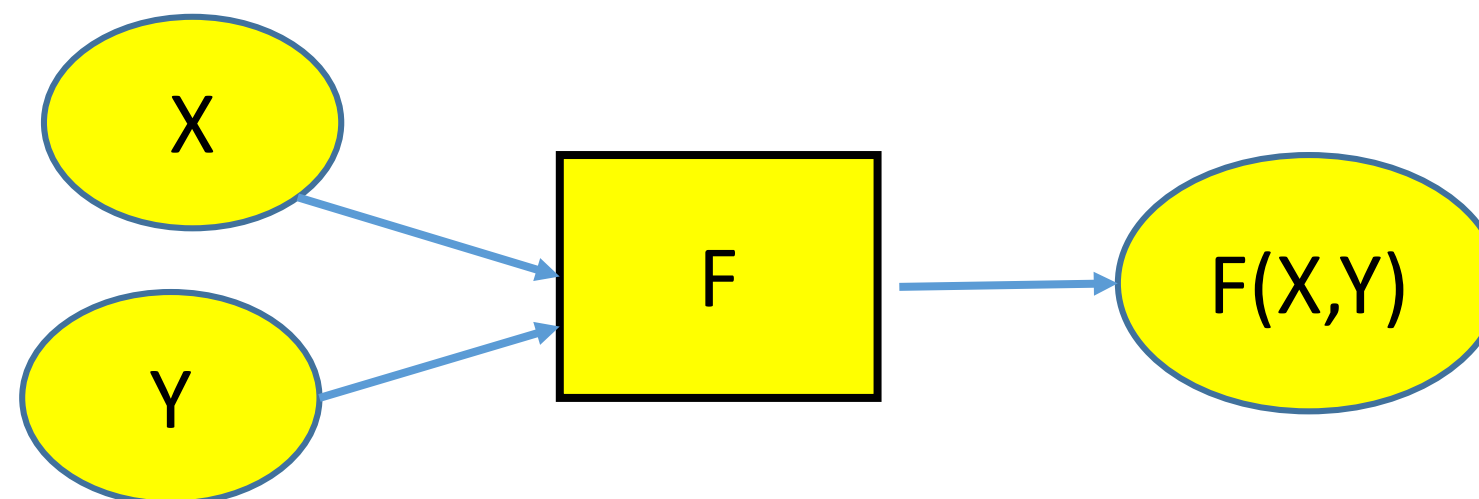
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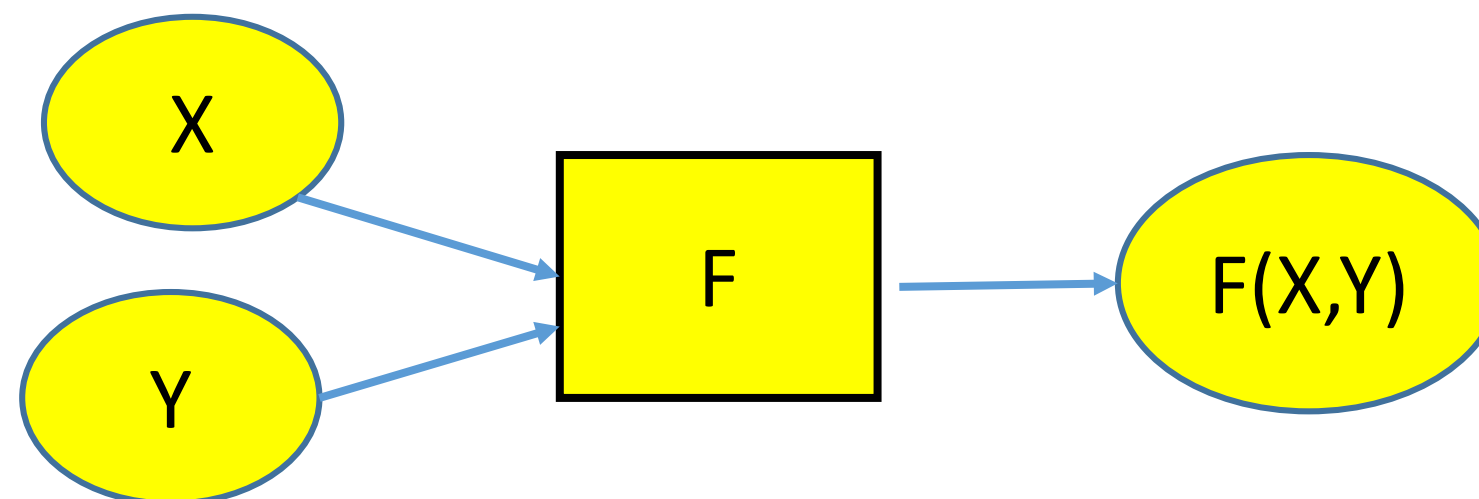
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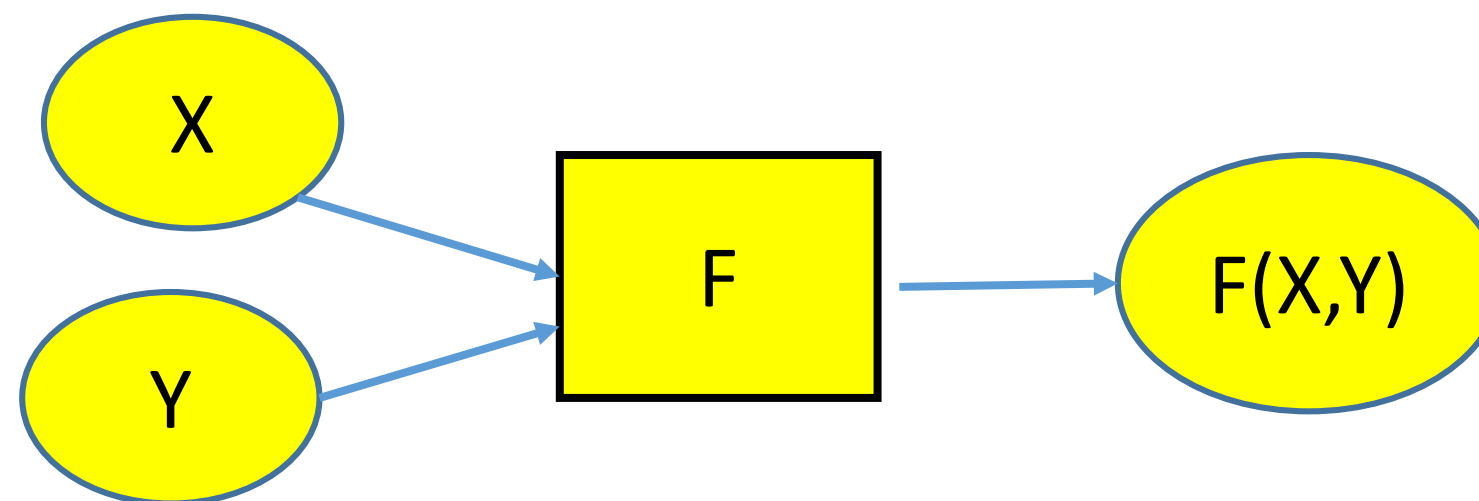
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- ExSpect became the competitor of CPN-tools

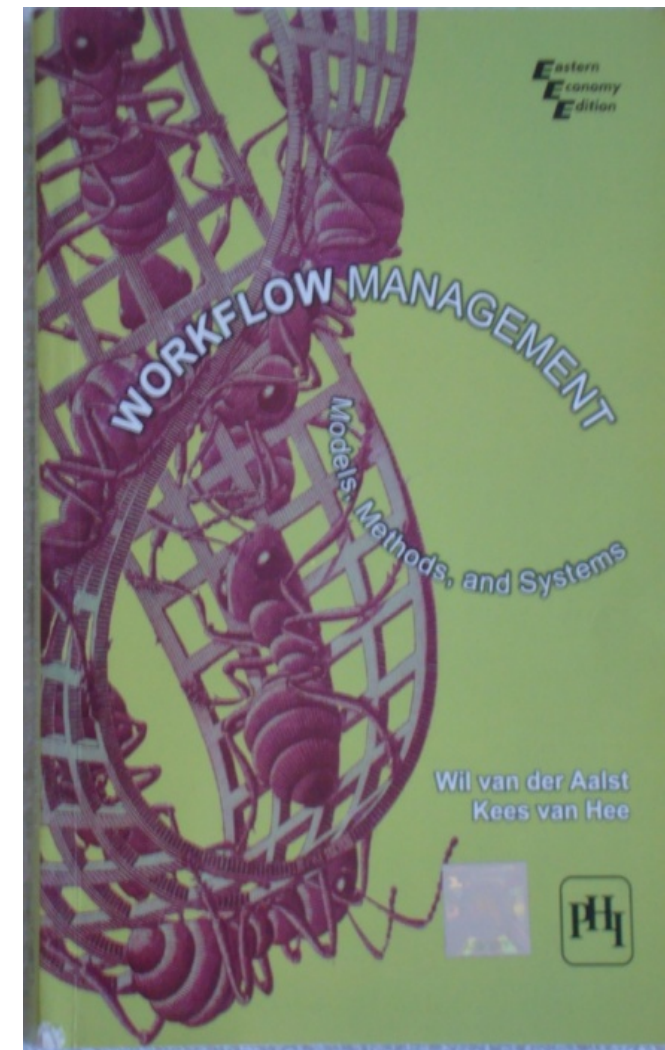


# Workflow

# Patterns

Wil's tool:  
YAWL

- Workflow management systems were discovered as a new component of information systems (like the dbms)
- Petri nets were the right tool to model them:  
*workflow nets*



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- Soundness is difficult property AGEF in CTL ( a very new development then)
- Later when I returned to the university soundness became a hot topic for me: *soundness-by-construction*

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- If we know all data of all roulette tables of the last century, we can not make a better prediction of the outcome!



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- So I end with a question:  
*Is there a fundamental limit for predictability?*