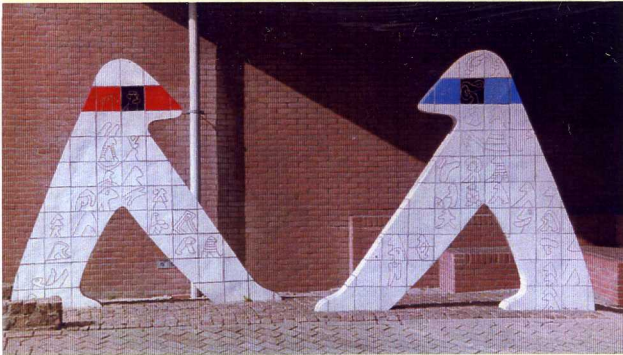




Centre for Mathematics and Computer Science

# FRONTIER RESEARCH FOR PRACTICAL APPLICATIONS



CWI  
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## CWI

CWI is the national research institute for mathematics and computer science. Since its foundation in 1946, the institute has acquired a prominent position in the research world. CWI co-founded (1989) the European Research Consortium for Informatics and Mathematics ERCIM, and participates in the recently created national Telematics Institute.

## MISSION

- ◆ Frontier research in mathematics and computer science
- ◆ Knowledge transfer to society in general, and trade & industry in particular

## FINANCES

Total annual budget (1997) 25 million Hfl (11,4 million Euro):

- ◆ Basic subsidy from the Netherlands Organisation for Scientific Research NWO (70%)
- ◆ Participation in (inter)national research programmes and commissions from industry and government (30%)

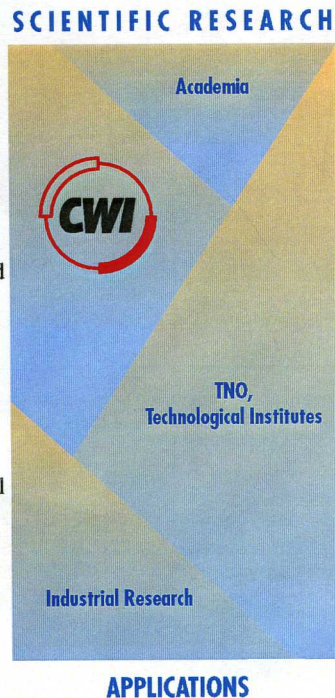
## STAFF

Total staff 185 fte:

- ◆ 135 fte researchers (18 full professors)
- ◆ 50 fte supporting staff

## POSITIONING

CWI performs fundamental research on themes derived from societal needs which are continuously renewed. There is close cooperation with universities and national graduate schools and, on the road to concrete applications, also with industry and large knowledge institutions, including Shell, Philips, the Netherlands Organisation of Applied Research TNO, the ministry of Public Works, Delft Hydraulics, the Dutch National Agency for Health and Environment RIVM, and the Royal Dutch Meteorological Institute KNMI. CWI does not develop applications itself, but is involved through small spin-off companies, for example Data Distilleries (datamining) and General Design (design of WWW-sites).



## SCIENTIFIC RESEARCH

CWI research is grouped into clusters of interdisciplinary themes.

### *Cluster*

#### ◆ *Theme*

#### Probability, Networks and Algorithms

- ◆ Networks and Logic -- Optimization & Programming
- ◆ Traffic and Communication -- Performance & Control
- ◆ Stochastics
- ◆ Signals and Images

#### Software Engineering

- ◆ Interactive Software Development and Renovation
- ◆ Specification and Analysis of Embedded Systems
- ◆ Coordination Languages
- ◆ Evolutionary Computation and Applied Algorithmics

#### Modelling, Analysis and Simulation

- ◆ Environmental Modelling and Porous Media Research
- ◆ Industrial Processes
- ◆ Mathematics of Finance

#### Information Systems

- ◆ Data Mining and Knowledge Discovery
- ◆ Multimedia and Human-Computer Interaction
- ◆ Interactive Information Engineering
- ◆ Quantum Computing and Advanced Systems Research

## SUPPORT

Supporting facilities for the researchers include a library of national importance, advanced computing facilities (max-impact graphics, ATM through glass fibre, compute-, database- and file-servers) and a publication service. In addition, support is provided regarding project management, acquisition, public relations and science information.

### *Some key functions*

Library

Computing infrastructure

Publication service

International and national programmes

Acquisition/PR

Science information



**Function****Telephone E-mail**

Name

(+31 20 592....) (...@cwi.nl)

*General Director*

G. van Oortmerssen 4178 G.van.Oortmerssen

*Cluster Leader  
Theme Leader*

|                   |      |                  |
|-------------------|------|------------------|
| A. Schrijver      | 4087 | Lex.Schrijver    |
| A.H.M. Gerards    | 4045 | Bert.Gerards     |
| J.H. van Schuppen | 4085 | J.H.van.Schuppen |
| M.S. Keane        | 4050 | Mike.Keane       |
| H.J.A.M. Heijmans | 4057 | Henk.Heijmans    |

|                 |      |                |
|-----------------|------|----------------|
| J.W. de Bakker  | 4136 | J.W.de.Bakker  |
| P. Klint        | 4126 | Paul.Klint     |
| J.F. Groot      | 4232 | JanFriso.Groot |
| J.J.M.M. Rutten | 4116 | Jan.Rutten     |
| J.A. La Poutre  | 4082 | Han.La.Poutre  |

|                 |      |                 |
|-----------------|------|-----------------|
| C.J. van Duijn  | 4208 | Hans.van.Duijn  |
| J.G. Verwer     | 4095 | Jan.Verwer      |
| P.W. Hemker     | 4108 | P.W.Hemker      |
| J.M. Schumacher | 4090 | Hans.Schumacher |

|                  |      |                |
|------------------|------|----------------|
| M.L. Kersten     | 4066 | Martin.Kersten |
| A.P.J.M. Siebes  | 4139 | Arno.Siebes    |
| H.L. Hardman     | 4127 | Lynda.Hardman  |
| P.J.W. ten Hagen | 4133 | Paul.ten.Hagen |
| P.M.B. Vitányi   | 4124 | Paul.Vitanyi   |



CWI in the Market Place

*Contact Person*

|                   |      |                  |
|-------------------|------|------------------|
| F.A. Roos         | 4034 | F.A.Roos         |
| F. Kuiper         | 4121 | Frank.Kuiper     |
| F.J.G. Goudsbloem | 4018 | F.J.G.Goudsbloem |
| F.A.M. Sniijders  | 4171 | Frans.Sniijders  |
| M.W. Brouwer      | 4253 | Margriet.Brouwer |
| H.M. Nieland      | 4092 | Henk.Nieland     |

