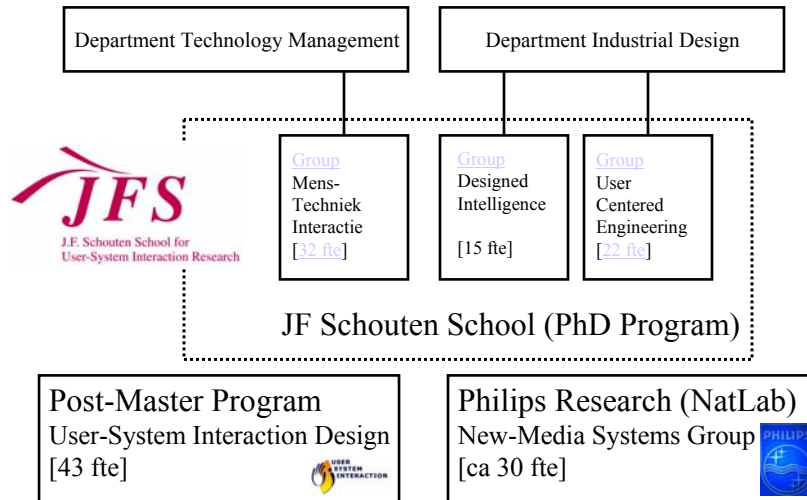


TU/e

User-System Interaction Research in Eindhoven

Matthias Rauterberg
Technical University Eindhoven (TU/e)

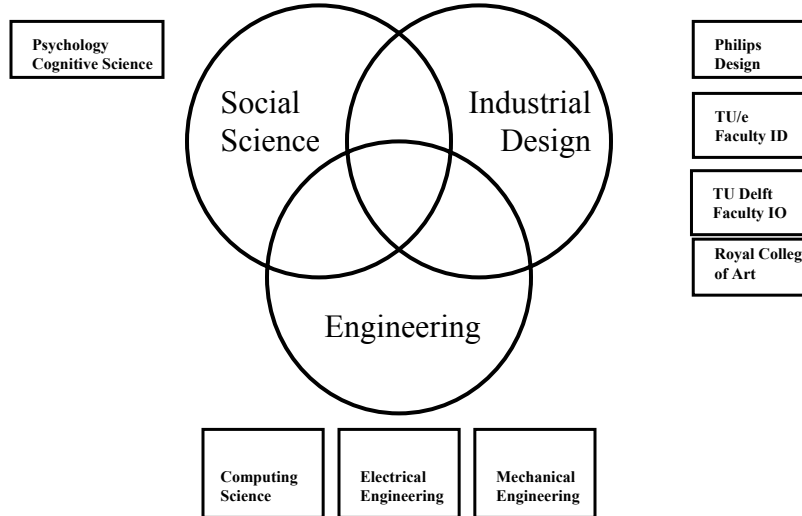
TU/e



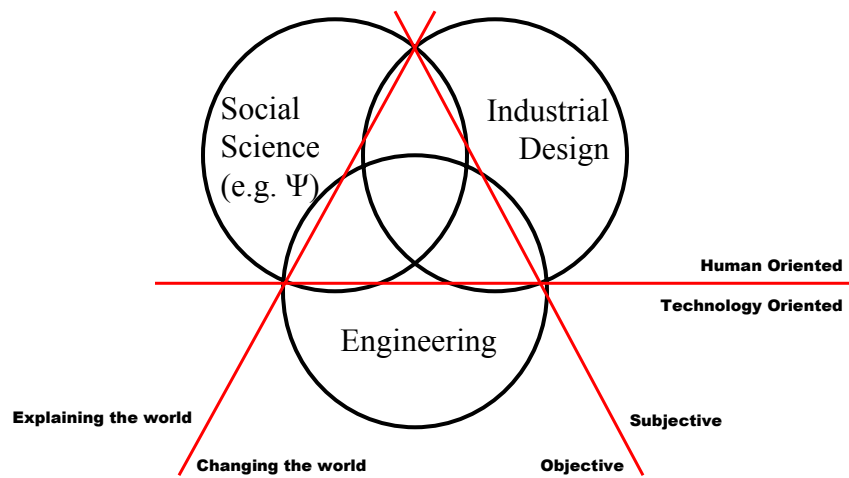
Mission of JF Schouten School

- Communication, Choice and Control (the human)
- User Interface Engineering & Design Methodology (the interface)
- Virtual and Augmented Environments (the experience)

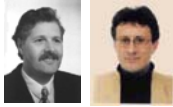
Three Paradigms



Three Major Barriers



TU/e Technical University Eindhoven
 Department Industrial Design
Designed Intelligence Research Group



Staff:
 2 full-time professors
 1 associate professor and 5 assistant professors
 several PostDocs and PhD students



Core Competencies:
 - adaptive systems
 - ambient intelligence
 - emotion and design, funology
 - autonomous systems, robotics



TU/e Technical University Eindhoven
 Department Industrial Design
User Centered Engineering Research Group



Staff:
 2 full-time professor and 1 part-time professor
 1 associate professors and several assistant professors
 several PostDocs and PhD students



Core Competencies:
 - usability engineering and usability testing
 - user requirement and task analysis
 - advanced interactive technology (gesture, speech, etc.)
 - multi-modal interface design (e.g., children, elderly, etc)





Biography:

Prof. dr. Matthias Rauterberg has held teaching and research positions at the Technical University of Hamburg-Harburg (Germany), University of Oldenburg (Germany), and Swiss Federal Institute of Technology ETH (Switzerland). He was a senior lecturer for "usability engineering" in computer science and industrial engineering at the Swiss Federal Institute of Technology (ETH) in Zurich. He was the head of the Man-Machine Interaction research group (MMI) of the Institute for Hygiene and Applied Physiology (IHA) at the Department of Industrial Engineering (ETH). He holds a Diploma Degree (M.Sc.) in Computer Science, a Diploma Degree (M.Sc.) in Psychology and a Bachelor Degree (B.A.) in Philosophy. He finished his PhD in Mathematics/Computer Science at the University of Zurich (Switzerland). Since 1998, he is fulltime professor for "Human Communication Technology" at the [Department of Industrial Design](#) at the [Technical University Eindhoven](#) (The Netherlands).

Publications:

He is author of over 200 articles in the field of [human-computer interaction](#), [cognitive ergonomics](#), and [usability engineering](#). He is also co-author of the book "Benutzer-orientierte Softwareentwicklung" ("User oriented software development", [Teubner Press](#) und [mit Press](#) 1994), and author of the book "Ein Konzept zur Quantifizierung software-ergonomischer Richtlinien" ([PhD](#), "A methodology to quantify usability criteria", IfAP-ETH Press 1995).

Technical Expertise:

He is an expert in the field human-computer interaction, software ergonomics, usability engineering, and cognitive engineering.

Teaching Experience:

Several courses (one day, one week, full-fledged lecture) in "Introduction to Human-Computer Interaction", "Design of Graphical User Interfaces", "Design of Multi-Media Interfaces", "User Centered Design", "Usability Engineering", "Interaction Design".

Current Interests:

Design of the next generation of user interfaces ("beyond the desktop"), ubiquitous computing, interaction design, emotional design, adaptive systems, active forms.

Laboratory Infrastructure

MuseLab



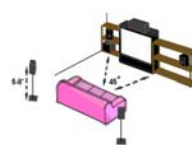
SoundLab



KidLab



UsabilityLab



Future of USI/HCI and JFS

- **JF Schouten School for User-System Interaction Research:**
Request for [re-]recognition as a research school by the Royal Netherlands Academy of Arts and Sciences (KNAW)
[December 2001]
- **Self-evaluation report for the peer review committee:**
Tommy Gärling, Göteborg University (Sweden)
Daniel Gopher, Technion Institute of Technology (Israel)
Neville Moray, University of Surrey (United Kingdom)
Ryohei Nakatsu, ATR Laboratories (Japan)
[October 2001]
- **Re-Recognition of JFS by the Royal Netherlands Academy of Arts and Sciences in 2002 till 2007**

USI Research Line

