

David S. Brée

Curriculum Vitae as of 12/5/99

Personal

Date of Birth: 2 December 1939
Nationality: British
Marital status: Divorced
Children: One

Address: 2 Pine Road
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United Kingdom

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Present position

1990 Professor of Artificial Intelligence
Computer Science Department
University of Manchester
Manchester, M13 9PL, United Kingdom

Previous posts

1988-91 Scientific Director (part-time)

Foundation for Knowledge Based Systems, Rotterdam

- set up by SPIN, the Dutch equivalent of Alvey
- with an injection of fl 10,000,000 (\$4,500,000) over five years
- with the aim of raising an equivalent amount from industry and universities
- for strategic research in the area of knowledge based systems
- with the long run aim of becoming self financing

1970-90 Professor of Cognitive Psychology

(Formally Associate Professor of Psychology)

Rotterdam School of Management

Erasmus University, Rotterdam

1983 Visiting Fellow (for 6 months)

Psychology Department, Nijmegen University & Max-Planck Institute for Psycholinguistics, Nijmegen

1979 Visiting Fellow (for 5 months)

Psychology Department, Stanford University, Palo Alto

1970-72 Guest research fellow (for one-third time)

Institute for Cognition Research

Psychology Laboratory, Amsterdam University, Amsterdam

1968-70 Senior Lecturer in Psychology

Manchester Business School, University of Manchester

1965 Research assistant to Prof. A. Newell (for 3 months)

Computer Science Department, Carnegie-Mellon University, Pittsburgh

1963-64 Science teacher

United Nations Relief & Works Agency, Beirut

1959-63 Student apprentice and graduate engineer

Babcock & Wilcox, Ltd., London & Renfrew

Higher Education

1964-68 **University postgraduate in Industrial Administration
Carnegie-Mellon University, Pittsburgh**

DEGREE: Ph.D. in Industrial Administration (1969)

EXAMINATIONS PASSED:

Major: Organizations and social behaviour

Minors: Business environment
 Cognitive processes
 Quantitative methods

AWARDS:

1967-68 Research Fellowship from the N.I.M.H., U.S.A.

1965-67 N.A.T.O. Studentship from the SSRC, Great Britain

1964-65 Mellon Fellowship from the university

THESIS SUPERVISOR: Prof. H.A. Simon

1959-62 **University undergraduate in Engineering
Gonville & Caius College Cambridge University**

DEGREES: B.A. (1962); M.A. (1966)

EXAMINATIONS PASSED:

1963 Diploma in the Principles of Industrial Management (now a Part II of the
 Mechanical Sciences Tripos)

1962 Mechanical Sciences Tripos, Part I with Second class, upper division, honours

1961 Preliminary exam of the Mechanical Sciences Tripos with First class honours

AWARDS:

1959-62 State scholarship

 Open college scholarship in mathematics

 Industrial award from Babcock & Wilcox, Ltd.

Member of

AISB, Association for the study of Artificial Intelligence and the Simulation of Behaviour (1998- Treasurer)

AAAI, American Association of Artificial Intelligence

Cognitive Science Society, U.S.A.

NVKI, Nederlandse Vereniging voor Kunstmatige Intelligentie

PSYCHON, The Foundation for Psychology, The Netherlands

Research

Research grants

- 1996-97** £40,000 over 6 months
From EPSRC: Visiting Fellowship for Prof. Nissim Francez from Technion University, Isreal
- 1994-96** £24,000 over 2 years
From Ferranti-Thompson Plc
Classification with Small Data Sets
- 1989-92** Fl. 4,200,000 (\$2,100,000) over 4 years
From the Ministry of Agriculture and Fisheries and the Foundation for Knowledge-Based Systems, Rotterdam
ANIMAL FARM: an intelligent knowledge-based computer system for integral management in animal husbandry
- 1988-92** Fl. 2,500,000 (\$1,250,000) over 5 years
From the Foundation of Knowledge-Based Systems, Rotterdam
To develop a method for building knowledge-based interfaces for computer systems
- 1988-92** 8 man years over 4 years
From the Rotterdam School of Management, Erasmus Universiteit
To develop a theory for designing knowledge-based interfaces
- 1987-92** 4 man years over 4 years
From the Rotterdam School of Management, Erasmus Universiteit
To simulate the operation of a commodity market (oil), using AI techniques
- 1986-91** 4 man years over 4 years
From the Rotterdam School of Management, Erasmus Universiteit
To model the planning and process of implementing computer systems in organizations
- 1985-88** 4 man years over 4 years
From the Rotterdam School of Management, Erasmus Universiteit
To develop a shell for designing Intelligent Interfaces to Data Bases
- 1983-86** 3 man years over 3 years
From the Netherlands Council for Pure Scientific Research (Z.W.O.) via the Foundation for Psychonomic Science
A model for the semantics of function words in Dutch and English
- 1981-82** 2 man years over 2 years
From the Netherlands Council for Pure Scientific Research (Z.W.O.) via the Foundation for Psychonomic Science
The semantics of subordinating conjunctions

Teaching

Students supervised

Computer Science Department, Manchester University

PHD STUDENTS:

1999- An Yu
1999- Rahim Lakha
1997- HyeSook Kim (withdrew)
1994-96 Chun Li, RA part-time(10/96)*
1993-97 George Paliouras

MPHIL/MRES STUDENTS:

1997-8 Todd*
1996-7 Ramachadran Srinivasan(9/98)
1993-4 El-Medani(withdrew)
1992-3 Richard Lee(4/94), Vaughan Marks(12/94), George Paliouras*

MSC STUDENTS:

1998-9 An Yu*, Ben Beever, Naveed Iqbal
1997-8 Barrett*, Soulez*
1995-6 Clarke*, Davies(?/99), Minhas, Yang*
1994-5 Sanderson, Sketcher*, Westaway*
1993-4 Capstick(10/95), Chan*, Miyazaki*, Rohrer*
1992-3 Bewes*, Howarth*, Mann(9/94), Mueller*

Rotterdam School of Management, Erasmus University

PHD STUDENTS:

1989-94 Henk Hogeveen, RA part-time(12/94)*
1989-94 Thijs Spigt(10/94)
1987-91 Andre Bialowas(12/91)*
1986-91 Jos Schreinemakers, RA part-time(7/91)*
1986-90 George Beers(9/90)*

* student submitted on time.

Courses taught

PH.D CORE COURSES

1994- CS710 Thesis writing seminar
1992- CS700 Thesis proposal seminar

M.SC (COGNITIVE SCIENCE) CORE COURSES

1990- CS641 Knowledge-based systems

B.SC ELECTIVE COURSES

1999 CS340 Foundations of Artificial Intelligence
1995 CS241 Sub-symbolic Artificial Intelligence
1992-93 CS141 Introduction to Artificial Intelligence (Labs)
1990-94 CS341 Knowledge-based systems.

Rotterdam School of Management, Erasmus University

PH.D. CORE COURSE

1987-90 Research methods in the Social Sciences

MBA CORE COURSES:

1987-90 Decision Support Systems & Knowledge Based Systems (with Prof. van Nunnen)
1986 Management Information Systems and Computer Science
1982-85 Information processing project
1981-85 Computer modelling on micro-computers (workshop)
1978-84 INTOP management game
1977-84 Introduction to social skills training (workshop)
1977-85 Human information processing
1971-76 Decision making and problem solving

MBA ELECTIVE COURSES:

1986-89 Knowledge Based Systems
1986-88 Functional programming
1978-85 Artificial Intelligence
1979-84 Cognitive Psychology

Foundation for Management, Rotterdam

CORE EXECUTIVE COURSE

1971-73 Managerial decision making (with Prof. A. Rowe)

MBA COURSES:

1970 Organizational design (seminar)
1969-70 Basic concepts in psychology
1969-70 Decision making and problem solving
1969-70 Behaviour in small groups (workshop)
1969-70 Mathematical models in business (seminar)

Administration

Chairmanship of Committees

- together with main aim or achievement of each committee

Computer Science Department, Manchester University

- 1990- The Artificial Intelligence group
 - Formed the AI staff and research students into a cohesive group.
 - Designed and set up an undergraduate Honours Course in Artificial Intelligence
- 1990-93 The postgraduate committee
 - Designed a new Masters in Business Information Systems course
 - Set up data base of applicants and students to support the administration
- 1993-96 The Research and Graduate Division
 - Set up procedures for this new division
 - Introduced 1 fte administrator to support the division's activities
 - Designed a new Masters in Research (Informatics) Course; acquired 10 EPSRC grants

The Government of the Netherlands

- 1982-83 *The committee for Artificial Intelligence in the Netherlands*
 - advised the Ministry of Science & Education to set up 4 major research programmes eventually implemented in the Foundation for Knowledge Based Systems
- 1971-72 *The working party for a Ph.D. programme in management in the Netherlands*
 - advised the Ministry of Economic Affairs to set up such a programme
 - not implemented at the time, but introduced in 1987

N.O.B.O. (Nederlands Organisatie voor Bedrijfskunde Onderzoek)

- promotes and coordinates the research programmes in Management in universities.
- 1986-90 Chairman
 - aim was to be accepted as a Foundation by the Dutch Science Research Council

PSYCHON (The Foundation for Psychological Research in the Netherlands)

- channels research grants in Psychology from the Dutch Science Council
- 1989-90 The working group for Language and Memory
- 1982-86 The working group for Semantic Memory
 - responsible for improving the quality of research applications in these areas
 - achieved highest ratio of accepted projects of all working groups in PSYCHON

Erasmus University

- 1987-88 The Rules of Thumb congress committee
- ran the largest congress in the 75th anniversary of the founding of the University
- secured funding for 5 videos, worth fl 250,000 (\$100,000)

Rotterdam School of Management, Erasmus University

- 1986-90 The Research committee
- introduction of research programme planning
- 1983-85 The Information sciences department
- introduction of micro computers into the core curriculum
- 1982-83 The Social sciences department
- 1982-83 The Education committee
- implementation of specialisations
- 1980-83 The Elective course committee
- introduction of specialisations for future job market
- 1977-80 The Education committee
- introduction of a new problem oriented MBA curriculum

Manchester Business School

- 1969-70 Director of Studies, Ph.D. program
- set up the first Ph.D. programme with course work in management in the UK.

Other

Computer Science Department, University of Manchester

- 1999 Responsible for transferring Departmental library from a dependence of the University library to a departmental library.
- 1998- Member, Teaching Quality Assurance committee.
- 1998- Member of University Court
- 1992- Member of various appointments Committees

AISB

- 1998- Treasurer