MAJOR RESEARCH PROJECTS

- **OCEAN (Open Corrosion Expertise Access Network)**
  - **function:** head XML standards expert / chairman of Taskgroup A
    (“Corrosion Information Exchange Standardised Data Formats”)
  - a Thematic Network of leading European corrosion organisations aiming to develop Web protocols for the exchange of standardised metadata on corrosion information, and planning to construct a central directory site for the efficient access to this information
  - 1998 - 2001, a European Brite/Euram Thematic Network project

- **MatWeb**
  - **function:** head researcher hypermedia system architectures
  - an on-line hypermedia information service based on World-Wide Web technology, supporting a virtual center of competence and documentation for corrosion and materials experts
  - 1995 - 1997, an in-house MIPS group applied research project (K.U.Leuven)

- **GRACE (Global Reading & Accessing of Corrosion Expertise)**
  - **function:** head researcher hypermedia system architectures
  - a first attempt at making a large body of knowledge and expertise on materials & corrosion engineering problems and their possible solutions available on-line using the World-Wide Web
  - 1994 - 1995, an in-house MIPS group applied research project (K.U.Leuven)

- **STREAMER (Shell Text Retrieval Engine for Advanced Materials Engineering Research)**
  - **function:** head researcher hypermedia document retrieval
  - a prototype hypertext-based document retrieval front-end for materials research
  - 1993 - 1994, a feasibility study in co-operation with Shell Billiton Research, Arnhem (The Netherlands)

- **PolDoc (Polysius Documentation system)**
  - **function:** researcher hypertext document management
  - a prototype hypertext-based documentation system for industrial installations
  - 1991 - 1992, a feasibility study in co-operation with KRUPP Polysius a.g., Beckum (Germany)

- **IKON (Intelligent Knowledge Objects Navigator)**
  - **function:** researcher fundamental hypertext theory
  - a prototype knowledge-based hypermedia system for electronic documentation
  - 1989 - 1995, an in-house MIPS group fundamental research project (K.U.Leuven)

JOURNAL ARTICLES


**n BOOK CONTRIBUTIONS**


**n CONFERENCE PAPERS**


**ON-LINE CONFERENCE PAPERS**


**RESEARCH REPORTS**


**CONFERENCE POSTERS**


**CONFERENCE REVIEWS**


n  LECTURES

○ Materials engineering on the Internet
  Eurocorr '96: 212th event of the European Federation of Corrosion
  24 - 26 September 1996, Nice (France)

○ Corrosion information on the Internet
  CAIT '95: Workshop on Corrosion Advanced Information Technology
  30 November - 1 December 1995, Petten (Holland)

○ Intelligent hypermedia corrosion information tools
  UK Corrosion '94 and EUROCOR '94
  31 October - 3 November 1994, Bournemouth (United Kingdom)

○ Knowledge representation formalisms for third-order hypermedia systems
  Universität Konstanz - Fakultät für Verwaltungswissenschaft
  26 August 1993, Konstanz (Germany)

○ Intelligent corrosion management systems
  SMiRT 12 Post Conference Seminar 1993:
  Expert Systems and AI Applications in the Domain of Power Plant and Structural Engineering
  23 - 25 August 1993, Konstanz (Germany)

○ Data modelling for intelligent materials information systems
  Shell Workshop on Logical Data Modelling for Materials Engineering
  10 February 1993, Arnhem (The Netherlands)

○ The representation of information semantics in knowledge-based hypermedia systems
  Bayerisches Forschungszentrum für Wissensbasierte Systeme
  16 December 1992, Erlangen (Germany)

○ De Model-Map-View-Praxis architectuur:
  Een conceptuele systeem-architectuur voor kennisgebaseerde of derde-orde hypermedia systemen
  Hypertext Workshop
  26 March 1992, Eindhoven (The Netherlands)

n  TUTORIALS

○ Using hypermedia information systems to support corrosion analysis and materials engineering in power plants
  SMiRT 12 Post Conference Seminar 1993:
  Expert Systems and AI Applications in the Domain of Power Plant and Structural Engineering
  23 - 25 August 1993, Konstanz (Germany)

○ Survey of selected hypertext & hypermedia systems and tools
  State-of-the-art in information processing technologies for intelligent engineering applications
Applications in the field of materials engineering
Part IVb, Part II and Part Vb of Tutorial 8

Integrated knowledge-based & hypermedia systems for engineering applications
Avignon '92: Twelfth International Conference on AI - Expert Systems - Natural Language
1 - 6 June 1992, Avignon (France)

- Survey of selected hypertext & hypermedia systems and tools
  State-of-the-art in information processing technologies for intelligent engineering applications
  Applications in the field of materials engineering
  Part IVb, Part II and Part Vb of Tutorial 13
  Hybrid knowledge-based & hypermedia systems for engineering applications
  Avignon '91: Eleventh International Workshop Expert systems & their applications
  27 - 31 May 1991, Avignon (France)

LESSONS

- Using the World-Wide Web as a research support tool for materials engineering research
  Doctoral Seminar at the Department of Metallurgy and Materials Engineering
  8 February 1996, Leuven (Belgium)

- Knowledge-based indexing of hypermedia information
  Advanced Research Seminar of the International Study Program of Artificial Intelligence
  10 March 1995, Leuven (Belgium)

- Knowledge representation formalisms for intelligent hypermedia systems
  Advanced Research Seminar of the International Study Program of Artificial Intelligence
  10 November 1993, Leuven (Belgium)

- The use of hypertext and hypermedia for improving information and knowledge manipulation in intelligent systems
  Advanced Research Seminar of the International Study Program of Artificial Intelligence
  30 April 1993, Leuven (Belgium)

- Hypermedia systems and expert systems: Opportunities and challenges for a successful synergy
  Advanced Research Seminar of the International Study Program of Artificial Intelligence
  4 November 1992, Leuven (Belgium)

SCIENTIFIC GRANTS

- Travel grant C 17/5 - DB. D 13 161 of the National Fund for Scientific Research
  to Online Information '91: 15th International Online Information Meeting
  10 - 12 December 1991, London (United Kingdom)

- IBM grant D 3/42 - VDP. D 3785 for advanced computer sciences research
  to Fachgruppe Expertensysteme, Staatliche Materialprüfungsanstalt, Universität Stuttgart
  1 May - 30 June and 1 - 30 September 1991, Stuttgart (Germany)

- Travel grant C 17/5 - DB. D 12 725 of the National Fund for Scientific Research
  to Online Information '90: 14th International Online Information Meeting
n SCIENTIFIC FUNCTIONS

- **Editor-in-chief of the SGML BeLux '96 conference proceedings**
  Third annual SGML BeLux Conference: "A decade of SGML power"
  30 - 31 October 1996, Brussels (Belgium)

- **Editor-in-chief of the SGML BeLux '95 conference proceedings**
  Second annual SGML BeLux Conference: "Putting SGML to work"
  25 October 1995, Antwerp (Belgium)

- **Referee for HICSS-28: 28th Annual Hawaii International Conference on System Sciences**
  Minitrack on Hypermedia in Information Systems and Organizations
  3 - 6 January 1995, Maui (Hawaii)

- **Editor-in-chief of the SGML BeLux '94 conference proceedings**
  First annual SGML BeLux Conference: "Experience the power of SGML!"
  12 October 1994, Leuven (Belgium)

- **Invited member of the expert panel**
  "Expertext in practice: Medicine, Engineering and Computer Science"
  Second World Congress on Expert Systems
  10 - 14 January 1994, Lissabon (Portugal)

- **Referee for HICSS-27: 27th Annual Hawaii International Conference on System Sciences**
  Minitrack on Hypermedia in Information Systems and Organizations
  4 - 7 January 1994, Maui (Hawaii)

- **Invited co-chairman of the session 3A “SMiRT and KBS-related research supported by the Commission of the European Communities” and the session 4A "Tools”**
  SMiRT 12 Post Conference Seminar 1993: Expert Systems and AI Applications in the Domain of Power Plant and Structural Engineering
  24 August 1993, Konstanz (Germany)

- **Referee for the scientific journal "International Journal of Man-Machine Studies"**
  1992 - 1995, Leuven (Belgium)

- **Referee for the scientific journal "Information Processing & Management"**
  1992 - 1995, Leuven (Belgium)