

Resume



Prof Dr Heinz V Dreher

BSc, DipEd, PGradDip(Curric&EdTech), MEd, PhD, MAIS, FMISI

11th January 2014

Perth, Western Australia

h.dreher@curtin.edu.au

Summary

Heinz Dreher is Adjunct Professor for Computer Science at Graz University of Technology, Austria, and Adjunct Research Professor at Curtin University, Perth, Western Australia. He retired in February 2013 as Professor of Informatics in the School of Information Systems after 37 years at Curtin University.

After completion of BSc in 1969 at Monash University in Melbourne, Australia, he was computer programmer for the Imperial Chemical Industries group before moving into the tertiary education sector with a brief appointment at Chisholm Institute of Technology, Melbourne, as Senior Tutor in Electronic Data Processing before moving to the West in 1976.

For his first 25 years at the Western Australian Institute of Technology, transformed into Curtin University of Technology in 1987, he concentrated on teaching computing related subjects at undergraduate and postgraduate levels. During the 1970s and 1980s he ran short courses for business and industry during the academic recesses. In the 1990s he also taught at the campuses of the numerous offshore partners of the Curtin Business School, on a visiting basis.

With the arrival of the new century Heinz Dreher became highly active in the research of Information Systems issues in education, business, and the oil & gas industry, disseminating this work through conferences, journals, books, invited talks and seminars.

Funded research projects include Automated Essay Grading technology development, eLearning, and hypertext and hypermedia based systems in training and business scenarios.

He is an accomplished teacher, receiving awards for his work in cross-cultural awareness and course design.

Dr Dreher has a Masters degree in educational technology that focused on the question of how children learn and solve problems in a computer culture – one that is rich in computing devices and experiences. His PhD research was multi-disciplinary spanning Cognitive Science, Psychology, Educational Technology, and Information Systems, and dealt with performance support systems for knowledge workers, exploring what Information Technology systems support can be provided for the knowledge generation activities of research workers.

In his retirement he lives an exciting life as traveller, adventurer, and Australian Outback specialist.

Research Interests

Semantic Analysis, Text Mining, Conceptual Searching, Automated Assessment Systems, Automated Essay Grading, Science & Technology of Learning, E-Learning, Virtual Worlds, Digital Ecosystems, Mobile & Pervasive Computing, Educational Design and Evaluation, Hypermedia and Hypertext, Qualitative Research.

Professional Memberships

AIS – Member of the Association of Information Systems www.aisnet.org

ISI – Foundation Member of the Informing Science Institute www.informingscience.us

Honorary Appointments

Adjunct Professor for Computer Science at Technische Universität Graz, Austria

Adjunct Research Professor, School of Information Systems, Curtin University, Perth, Australia

Editorial Board and Conference Committee Positions

Editor/Associate Editor for:

- International Journal of Doctoral Studies www.ijds.org ISSN: 1556-8873
- Journal of Information Technology Education www.jite.org ISSN: 1539-3585
- Interdisciplinary J. of E-Learning & Learning Objects www.ijello.org ISSN: 1552-2237
- J. of Information, Information Technology, & Organizations www.jiito.org ISSN:1557-1327
- International J. of Education & Development using ICT ijedict.dec.uwi.edu ISSN: 1814-0556

Member of the Board of Reviewers for:

- Journal of Universal Computer Science www.jucs.org ISSN: 0948-6968
- International J. of Education & Development using ICT ijedict.dec.uwi.edu ISSN: 1814-0556
- IEEE Transactions on Education <http://www.ewh.ieee.org/soc/es/esinfo.html>
- World Wide Web Journal, (Springer) <http://www.springerlink.com/content/1386-145X>
- International Journal of Doctoral Studies www.ijds.org ISSN: 1556-8873
- Journal of Information Technology Education www.jite.org ISSN: 1539-3585
- Interdisciplinary J. of E-Learning & Learning Objects www.ijello.org ISSN: 1552-2237
- J. of Information, Information Technology, & Organizations www.jiito.org ISSN:1557-1327

Conference Program Committee & Journal Board Memberships:

- Bled eConference - Graduate Student Consortium co-chair <http://bledconference.org/>
- CSEDU 2009-2011 – International conference on Computer Supported Education http://www.csedu.org/2009/Program_Committee.asp
- ICL 2008-2011 - International Conference on Interactive Computer aided Learning, Computer-based Knowledge & Skill Assessment and Feedback in Learning Settings (CAF 2008 - 2011) www.icl-conference.org
- InSITE 2004-2011 http://2009.informingscience.org/program_committee.php
- MKWI2010 - Multikonferenz Wirtschaftsinformatik <http://www.mkwi2010.de/>
Co-chair of Track "Anwendung der Konzeptanalyse und ontologische Modellierung in der Wirtschaftsinformatik" [Conceptual Analysis and Ontological Modelling in Information Systems]
- IEEE-DEST 2009 Istanbul/Turkey. Co-chair of Special Session: Knowledge Mapping and Modelling: Methodologies and Case Studies. http://dest2009.debi.curtin.edu.au/index.php?option=com_content&task=view&id=26&Itemid=40
- I-KNOW 2005-2009 www.i-know.at
- ELSys07 - 1st International Workshop on E-Learning Systems: research and tools, from theory to practice. September 6th, 2007, Regensburg, Germany <http://elsys07.dti.unimi.it/index.html>
- 2005 ITS Africa-Asia-Australasia Regional Conference www.business.curtin.edu.au/its-conference/; Reviewer &Track Chair - Virtual Education and Digital Libraries
- INDIN05 - 3rd International IEEE Conference on Industrial Informatics www.indin2005.curtin.edu.au
- Managing Editor, and Executive Editor - Journal of Universal Science and Technology of Learning http://www.justl.org/justl_info/aims
- Informing Science Journal <http://inform.nu/>
- Interdisciplinary Journal of Knowledge and Learning Objects <http://ijklo.org/>
- Journal of Issues in Informing Science and Information Technology. <http://iisit.org/>

- Reviewer for MIS Quarterly <http://www.misq.org/>

Higher Degree by Research student projects

PhD Intelligent Learning Assessment Systems – A. Fardinpour, on schedule to graduate 2016

PhD Ontology based data warehousing for mining of heterogeneous data sources - Dr S. Nimmagadda, graduated 2015

PhD Improving the Relevance of Web Search Results by Combining Web Snippet Categorisation, Clustering and Personalisation - Dengya Zhu - *graduated 2011.*

PhD Grief Play in massively multiplayer online role-playing games (MMORPGs) CY Foo - *graduated 2007.*

MInfSys Improving the Relevance of Search Results via Search-term Disambiguation and Ontological Filtering. Dengya Zhu - *graduated 2008.*

Professional Experience Profile

2010 January – 2013 January: Curtin University of Technology, Perth, Western Australia

- Professor of Informatics – School of Information Systems, Curtin Business School
 1. Facilitate and nurture research programme in the School of Information Systems
 2. Generate research ideas and match with research funding opportunities
 3. Conduct research in information systems and technology supported education environments
 4. Teaching: Research Methods; Innovative Information Systems

2006 Dec – 2009 Dec: Curtin University of Technology, Perth, Western Australia

- Associate Professor – School of Information Systems, Curtin Business School
- Research grant project applications and development
 1. Develop and conduct research programme and project plans for “Semantic Analysis & TextMining for Business and Education” Area of Research Focus (eaglesemantics.com)
 2. Funded research project direction and collaboration activities; new project initiation and grant application preparation
 3. MarkIT Automated essay Grading commercialisation activities (essaygrading.com)
 4. CBS-Automated Assessment Laboratory (funded by CBS-Strategic Projects Reserve)
- Teaching: unit co-ordinator, examiner, and lecturer (recent years):
 1. final year undergraduate IS projects (ISP391, ISP392);
 2. undergraduate IS250 case studies unit;
 3. IS research methods for honours IRSM403
 4. IS research methods for postgraduate ISRM655

2005 April – June: Technological University Graz, Austria

- Research project visit: establish Journal of Universal Science & Tecnology of Learning

2004 – 2006: Curtin University of Technology, Perth, Western Australia

- Senior Lecturer – School of Information Systems, Curtin Business School
- Research: Intelligent/Conceptual Searching; e-Learning systems; Digital Libraries; Automated Essay Grading
- Teaching: Final year students systems development project supervision, direction & management; Systems Analysis ;

2004 - Technological University Graz, Austria

- Guest professor during a six month sabbatical leave period from Curtin University
- Research into Digital Libraries; e-Learning systems; Intelligent/Conceptual Searching
- Development and conduct of lectures, seminars, and tutorials in:

Societal Implications of Information Technology; Project Management

1988 - 2003 Curtin University of Technology, Perth, Western Australia

- Senior Lecturer – School of Information Systems, Curtin Business School
- Development and conduct of lectures, seminars, and tutorials in:
 - Computer programming - design, techniques & languages (e.g. JavaScript, COBOL, Pascal);
 - Systems analysis and design - conceptual schema design;
 - Personal productivity packages (especially wordprocessors & spreadsheets);
 - Text processing and analysis systems (self built with macros);
 - Operating systems and utilities;
 - Expert systems (e.g. Guru);
 - Hypertext/hypermedia;
 - WWW based and electronic commerce systems;
 - Problem solving with computers;
 - Project management, including computer-supported project modelling;
 - Time management;
 - Societal impacts of the computer phenomenon;
 - Information Systems research methods.
- Management of IS development project teams.
- Supervision of PhD, Masters, and Honours thesis students.
- Programme Manager (1997 – 2000) of masters level course (MMSI/M.Comm(IS) conducted at Universitas Bina Nusantara, Jakarta.
- Programme Manager (2000) of MBus(IT) masters level courses in Singapore and Hong Kong.
- Founded and directed the Hypertext Research Laboratory (1988 – 2002).
- Research and publications as detailed in the Publications List.

1987/88 Food Corporation

A contract assignment as Information Technology and Communications Systems Consultant to a Fresh Foods retailer/wholesaler whilst on a period of industry leave from Curtin University with the following responsibilities:

- create and implement an Information Technology & Systems Plan;
- ensure the appropriate technology is applied to maximise return on investment;
- formulate IT Strategies to achieve planned market share growth;
- budget IT expenditure within 1% turnover;
- implement host computing systems (PC connectivity, corporate finance/accounts);
- implement a voice/data/fax communications system to integrate functions across all branches and head office.

1976/87 WAIT – Western Australian Institute of Technology

Generally to design, manage and facilitate the education of students within the B.Bus. Information Processing and Information Systems degree courses, particularly in the programming, software engineering, and computer packages areas:

- impact of information technology on organisations and society;
- development of information systems;
- decision support systems;
- 4th generation tools;
- project management;
- expert systems;
- prototyping;
- software design methodologies.

1972-June 1976 Caulfield/Chisholm Institute of Technology

1974-June 1976 Lecturer in EDP at Chisolm Institute of Technology (now part of Monash University) - data base, data processing, and programming.

1972-74 Senior Tutor in EDP at Caulfield Institute of Technology (later renamed Chisholm).

1969-June 1970 Balm Paints

1969-70 Computer Programmer at Balm Paints (a business unit of Dulux Paints , an ICI company) - applications programmer on IBM S360/30 using 360 assembler.

Research grants awarded

Australian Council of Deans of Information & Communication Technology (ACDICT) Learning & Teaching Academy (ALTA) 2011.

Comparative Evaluation and Enhancement of Marking, Moderation and Feedback Support Systems (MMFSS). \$10,000 for 1 year. Assoc Prof John Venable, Dr Alastair Campbell, Prof Heinz Dreher, Dr Christian Gütl, Dr Ashley Aitken, Dr Tomayess Issa, Dr Lincoln Wood

auDA Foundation P/L <http://www.auda.org.au/foundation/foundation/> 2011

Connecting2Generations: realising a Learning Framework that would assist in the design and development of programs and activities to enable two technologically disconnected generations to learn, work, play and collaboratively share cultural information and community technology. Prof. Heinz Dreher, Miss Naomi Dreher. \$20,000 for 1 year to contribute to realising project.

auDA Foundation P/L <http://www.auda.org.au/foundation/foundation/>

Connecting generations: bridging the experiences of Generation Y and the Silent Generation using the Internet. Dr Heinz Dreher, Dr Stephen Quinton (December 2007). \$20,000 for 1 year to contribute to the project (The auDA Foundation is a charitable trust that was established by auDA to promote and encourage education and research activities that will enhance the utility of the Internet for the benefit of the Australian community)

ALTC (formerly The Carrick Institute for Learning and Teaching in Higher Education) – Competitive Grants programme: \$203,420 for July 2007 – June 2009. Dr S Quinton, A/Prof Dr H Dreher, Mr A Herrmann. *Tribes and Cultures: Frameworks for shared language and intent to cost-effectively improve learning outcomes.* (announced 23rd May 2007).

Australian Research Council (ARC) Linkage grant: LP0669242: 2006-2009, \$530,000. Prof E Chang; Prof TS Dillon; Dr H Dreher; Mr RF Williams; Ms J Cook. *An Intelligent Automated Essay Marking Tool-MarkIT for Education Sector.*

Primary RFCD 3301 EDUCATION STUDIES. APA(I) Award(s): 3

Partner Institutions: WA State Government - Department of Education and Training; Macquarie Library Pty Ltd. 2006 :\$95,000; 2007 :\$180,000; 2008 :\$170,000; 2009 :\$85,000.

Australian Government COMET Grant 2007 (Commercialising Emerging Technologies Programme) \$64,000 awarded to Blue Wren P/L, a company jointly owned by Curtin University and the inventors of MarkIT (Williams & Dreher)

Curtin R&D pre-seed grant (R Williams & H Dreher) for commercialisation support for MarkIT: \$138,000 for 2006

ARC Linkage grant: LP0455183: 2004-2007, Prof DL Fisher; Dr H Dreher; Dr S Quinton; Mr P Houghton. Title: *Facilitating the Lifelong Learning Needs of the Mature Age Community through Learning Objects* - Category: 3301 - EDUCATION STUDIES
2004: \$30,000; 2005: \$60,000; 2006: \$60,000; 2007: \$30,000

Curtin University Research Grants Scheme: H Dreher; Dr C Pollock.

Title: *A comparison of knowledge acquisition performance using three different formats of information in a goal-directed task.* \$7,192 for 1992

Curtin University Research Grants Scheme: H Dreher; C Newton-Smith.

Evaluation of full text electronic server technologies for use at Curtin. \$6,100 for 1992

Water Authority of Western Australia development grant: H Dreher; P Rosair.

Effectiveness of Hypertext to Support Quality Improvement. \$40,000 for 1992/3.

Woodside North West Shelf Development Contract No. 10289E, Woodside Offshore Petroleum P/L, Perth, Western Australia: H Dreher; J Wilkinson.

A Prototype Hypertext Operating Manual for LNG Plant Dehydration Unit. 1991.

Prizes awarded

- CBS Teaching & Learning Staff Prize 2003: Best Unit(Course) Outline (certificate + \$500)
- CBS Teaching & Learning Staff Prize 2002: Teaching that promotes cross-cultural understanding & communication among students (certificate + \$3000)

Courses (units) taught

Final year students' systems development project supervision, direction & management

Research Methods in Information Systems – for honours and postgraduate students

Development and conduct of lectures, seminars, and tutorials in:

Societal Implications of Information Technology;

Project Management

Computer programming - design, techniques & languages (e.g. JavaScript)

Systems analysis and design - conceptual schema design;

Personal productivity packages (especially wordprocessors & spreadsheets);

Text processing and analysis systems (self built with macros);

Hypertext/hypermedia;

WWW based and electronic commerce systems;

Information Systems research methods.

Specific Units/Courses taught:

Business Computing 569

Expert Systems 301

Hypertext 211, Hypertext 212, Hypertext 312, Hypertext 511, Hypertext 512

Innovative Information Systems 600

Information Systems 100

Information Systems 555, Information Systems 650

Information Systems Case Studies 250

Information Systems Research Methods 655 and 403

Personal Computing 211

Project Management 301, Project Management Systems 501

Programming 103, Programming 104

Information Systems Research Methods 401/601

Societal Implications of Information Technology

Systems Analysis 201 and 501

Systems Applications 301

Systems Project 391, Systems Project 392, Systems Project 393

Administration and Financial Experience

Administered research grant budgets

Budgeted & controlled ITS expenditure (e.g. as part of a year long consultancy project)

Conducted a limited audit of university student records system

Board & Committee representative

Blue Wren Software Pty Ltd (founding member 2006-current)

Curtin Business School Professorate Advisory Forum (2011-current)

Curtin Business School Research & Development Board (2005-2011)

Curtin Business School Aboriginal Liaison Committee (2000-2006)

Curtin Business School Board (1998-2004)

Curtin Business School Off Campus Academic Advisory Group (1997-2001)

Information Planning & Advisory Committee (university committee) (1999-2003)

Employment Affiliations

Organisation	Position	From	To
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TU Graz, Austria	Adjunct Professor for Computer Science	2005	-
Curtin University, Perth, Australia	Adjunct Research Professor	2013	-
Curtin University, Perth, Australia	Professor	2010	2013
Curtin University, Perth, Australia	Associate Professor	2006	2009
Curtin University of Technology, Perth, Australia	Senior lecturer	2004, Jul	2006
Technological University Graz, Austria	Guest Professor	2004, Feb	2004, Jun
Curtin University of Technology, Perth, Australia	Senior lecturer	1988	2003
Food Corporation, Perth, Australia	Manager, Info.Technology & Communications Systems	1987	1988
Curtin University of Technology, Perth, Australia	Lecturer	1976	1988
Chisholm Institute of Technology, Melbourne, Australia	Senior tutor	1972	1976
Balm Paints – Dulux – ICI, Melbourne, Australia	Computer programmer	1969	1970

Publications

Book chapters

2014

Nimmagadda, S.L. Rudra, A. and Dreher, H.V. (2014), Big Data Information Systems for Managing Embedded Digital Ecosystems (EDE), in Kei Daniel, B. and Butson, R. (ed), Big Data and Learning Analytics: Current Theory and Practice in Higher Education. New Zealand: Springer.

2013

Transforming Ideas to Innovations: A Methodology for 3D Systems Development

Dreher, C., T. Reiners, and H. V. Dreher. (2013). Transforming Ideas to Innovations: A Methodology for 3D Systems Development. In Synthetic Worlds, Ed. Andreas Hebbel-Seeger, Torsten Reiners and Dennis Schaeffer, 379-407. USA: Springer.

2012

Exploring Semantic Characteristics of Socially Constructed Knowledge Repository to Optimize Web Search

Dengya Zhu & Heinz Dreher (2012). Exploring Semantic Characteristics of Socially Constructed Knowledge Repository to Optimize Web Search, as chapter 13 in Patricia Ordóñez de Pablos, Héctor Oscar Nigro, Robert Tennyson, Sandra Elizabeth Gonzalez Cisaró, Advancing Information Management through Semantic Web Concepts and Ontologies. IGI Global, Hershey, PA. (pp250-271). ISBN13: 9781466624948. EISBN13: 9781466624955.

<http://www.igi-global.com/book/advancing-information-management-through-semantic/68189>

2010

Exploring semantic characteristics of socially constructed knowledge repository to optimize Web search

Zhu, D., & Dreher, H. (2010). Exploring semantic characteristics of socially constructed knowledge repository to optimize Web search. In HO Nigro & SEG Cisaró (eds), Ontologies Driven Web Mining: Concepts and Techniques, IGI Global, Hershey.

<http://old.igi-global.com/requests/details.asp?ID=732>

2008

Ontology-Based Data Warehousing and Mining Approaches in Petroleum Industries

Shastri L. Nimmagadda, Kuwait Gulf Oil Company, Kuwait and Heinz Dreher, Curtin University of Technology, Australia. Published as a chapter in *Data Warehousing and Mining: Concepts, Methodologies,*

Tools, and Applications (6 Volumes), Edited By: John Wang. IGI Global 2008 (<http://www.igi-global.com/reference/details.asp?ID=6946&v=tableOfContents>) ISBN: 978-1-59904-951-9

2007

An Iterative Design Approach to Creating Sustainable Learning Environments

Quinton, S. Fisher, D. Dreher, H. and Houghton, P. (2007). Creating Sustainable Online Learning Environments for Mature Age People. Chapter published in "*Sustainable Communities, Sustainable Environments: The Contribution of Science and Technology Education*". David B. Zandvliet and Darrell L. Fisher (Editors). Rotterdam, The Netherlands: Sense Publishers. pp 115 – 130.

Ontology-Based Data warehousing and Mining Approaches in Petroleum Industries

Nimmagadda, S.L. & Dreher, H. (2007) *Ontology-Based Data Warehousing and Mining Approaches in Petroleum Industries*: chapter XI in Negro, H.O., Cisaró, S.G., and Xodo, D., (Eds.), *Data Mining with Ontologies: Implementation, Findings and Frameworks*. Information Science Reference, IGI Global, Hershey, PA, USA. <http://www.igi-pub.com/reference/details.asp?ID=6844>

Journal articles

2016

Shastri Nimmagadda, Amit Rudra and Heinz V Dreher (2016), On Big Data Hype In Petroleum Industries". In *Foundations*, the Journal of the Professional Petroleum Data Management Association - Volume 2, Issue 4, pp 16-18

2015

Nimmagadda, S. and Dreher, H. and Rudra, A. 2015. On a Holistic Modelling Approach for Managing Carbon Ecosystems. *Greenhouse Gases: Science and Technology*. [In Press].

2014

Nimmagadda, S. and Dreher, H. 2014. On robust methodologies for managing public health care systems. *International Journal of Environmental Research and Public Health*. 11 (1): pp. 1106-1140.

On Robust Methodologies for Managing Public Health Care Systems

Nimmagadda SL, Dreher HV. On Robust Methodologies for Managing Public Health Care Systems. *International Journal of Environmental Research and Public Health*. 2014; 11(1):1106-1140. <<http://www.mdpi.com/1660-4601/11/1/1106>>

>>>> September 2014 - submitted to Elsevier's *Ecological Informatics Journal*. *Ontology based Multidimensional Data Warehousing and Mining of Heterogeneous Data Sources for managing Carbon Ecosystems*

Nimmagadda, S.L and Dreher, H. (2014). *Ontology based Multidimensional Data Warehousing and Mining of Heterogeneous Data Sources for managing Carbon Ecosystems*, <<<<< **withdrawn before delayed publication from** *International Journal of Business Analytics (IJBAN)*, USA, 2013. Vol.1, Issue 2 Apr-June 2014.

<<http://www.igi-global.com/journal/international-journal-business-analytics-ijban/67141>>

2012

On new emerging concepts of petroleum digital ecosystem

Nimmagadda, S.L. & Dreher, H. (2012) On new emerging concepts of petroleum digital ecosystem. *Wiley Interdisciplinary Reviews: Data Mining .and Knowledge Discovery*. Vol 2, pp457–475 doi: 10.1002/widm.1070 Wiley Periodicals <http://onlinelibrary.wiley.com/WIREs>DataMiningKnowlDiscov> 2012, 2: 457–475 doi: 10.1002/widm.1070

Virtual Intelligent Learning Assessment System (VILAS): Evaluating students' actions in Virtual Learning Environments.

Ali Fardinpour and Heinz Dreher (2013). Virtual Intelligent Learning Assessment System (VILAS): Evaluating students' actions in Virtual Learning Environments. Paper under development for JVWR (Journal of Virtual Worlds Research) special issue on Enterprises Welcome Virtual World

2011

Empowering Doctoral Candidates in Finding Relevant Concepts in a Literature Set

Dreher, N. & Dreher, H. (2011). Empowering Doctoral Candidates in Finding Relevant Concepts in a Literature Set. *International Journal of Doctoral Studies*, Vol. 6, pp. 33-50. <http://ijds.org/>

Investigating Factors Affecting the Uptake of Automated Assessment Technology

Dreher, C., Reiners, T. & Dreher, H. (2011). Investigating Factors Affecting the Uptake of Automated Assessment Technology. *Journal of Information Technology Education*, Vol. 10, pp. 161-182. <<http://jite.org/> <<http://www.scopus.com/inward/record.url?eid=2-s2.0-84859189752&partnerID=40&md5=97ec89772b015aca364b695c278fd4a8>>

Six Key Topics for Automated Assessment Utilisation and Acceptance

Reiners, T., Dreher, C., and Dreher, H. (2011). Six Key Topics for Automated Assessment Utilisation and Acceptance. *Informatics in Education*, 2011, Vol. 10, No. 1, pp. 47-64 ISSN 1648-5831 http://www.mii.lt/informatics_in_education/htm/INFE181.htm

Data warehousing and mining technologies for adaptability in turbulent resources business environments

Nimmagadda, S.L. & Dreher, H. (2011). Data warehousing and mining technologies for adaptability in turbulent resources business environments. *International Journal of Business Intelligence and Data Mining*, Vol. 6 Issue 2, pp113-153. Inderscience Enterprises Ltd. ISSN (Online): 1743-8195; ISSN (Print): 1743-8187 <http://www.inderscience.com/browse/index.php?journalID=143>

2009

Discovering Semantic Aspects of Socially Constructed Knowledge Hierarchy to Boost the Relevance of Web Searching

Dengya Zhu and Heinz Dreher (2009). Discovering Semantic Aspects of Socially Constructed Knowledge Hierarchy to Boost the Relevance of Web Searching. *Journal of Universal Computer Science*, vol. 15, no. 8 (2009), 1685-1710. http://www.jucs.org/jucs_15_8

Virtual Worlds as a Context Suited for Information Systems Education: Discussion of Pedagogical Experience and Curriculum Design with Reference to Second Life

Dreher, C., Reiners, T., Dreher, N., and Dreher, H. (2009). Virtual Worlds as a Context Suited for Information Systems Education: Discussion of Pedagogical Experience and Curriculum Design with Reference to Second Life. In Rea, A., Ed. "Impacts of Web 2.0 and Virtual World Technologies on IS Education", *Journal of Information Systems Education*, Volume 20, Number 2, July. Pp211-224. <http://www.jise.appstate.edu/>

Culturally-based Adaptive Learning and Concept Analytics to Guide Educational Website Content Integration

Torsten Reiners and Heinz Dreher (2009) Culturally-based Adaptive Learning and Concept Analytics to Guide Educational Website Content Integration. *Journal of Information Technology Education. Volume 8* 2009, pp 125-139. <http://jite.org/>

2007

Automatic Conceptual Analysis for Plagiarism Detection

Dreher, H. (2007) Automatic Conceptual Analysis for Plagiarism Detection, *Journal of Issues in Informing Science and Information Technology (IISIT)*, Vol 4, pp 601-614. <http://iisit.org/IssuesVol4v2.htm>

2006

Interactive On-line Formative Evaluation of Student Assignments

Dreher, H. (2006) Interactive On-line Formative Evaluation of Student Assignments - InSITE 2006. Salford - Greater Manchester, England June 25-28, <http://2006.informingscience.org/>
Journal of Issues in Informing Science & Information Technology, Vol 3, 2006

2005

Formative Assessment Visual Feedback in Computer Graded Essays

Robert Williams & Heinz Dreher (2005) Formative Assessment Visual Feedback in Computer Graded Essays. *The Journal of Issues in Informing Science and Information Technology, 2005 Volume 2 pp 23-32*
ISSN: On-line edition: 1547-5867; CD edition: 1547-5859; Print edition: 1547-5840
<http://2005papers.iisit.org/I03f95Will.pdf>

2004

What we Expect from Digital Libraries

Heinz Dreher, Harald Krottmaier, Hermann Maurer
Journal of Universal Computer Science, vol. 10, no. 9 (2004), pp. 1110-1122
<http://www.jucs.org/>

Automatically Grading Essays with MarkIt©

Williams, R., & Dreher, H. (2004) Automatically Grading Essays with MarkIt© *Journal of Issues in Informing Science and Information Technology Vol. 1, pp.693-700.* <http://articles.iisit.org/092willi.pdf>

Conference proceedings

2014

Nimmagadda, S. and Dreher, H. 2014. Multidimensional ontology modelling - A robust methodology for managing complex and heterogeneous petroleum digital ecosystems, in 12th IEEE International Conference on Industrial Informatics (INDIN), Jul 27 2014, pp. 740-747. Porto Alegre, Brazil: IEEE.

Nimmagadda, S.L. Rudra, A. and Dreher, H.V (2014), Integration and Effective Management of Heterogeneous Petroleum Digital Ecosystems Using Big Data Paradigm, a technical paper presented in a symposium of Professional Petroleum Data Management (PPDM), held in Perth, Australia <http://www.ppdm.org/event/view/archived/144>.

2013

Action-based Learning Assessment in Virtual Training Environments

Fardinpour, A., Reiners, T., Dreher, H. (2013). Action-based Learning Assessment in Virtual Training Environments. In proceedings of 30th Ascilite Conference, Dec 1, 2013, Macquarie University, Sydney: Macquarie University.

BLED eConference (26; 2013) Graduate student consortium

Dreher, H, Vogel, D, & Pucihar, A. (2013). Eds. BLED eConference (26 ; 2013) Graduate student consortium of the Bled eConference [Elektronski vir] / 26th Bled eConference, June 13, 2013
<<https://domino.fov.uni-mb.si/proceedings>>
<Bled eConference Graduate Student Consortium eBook>

Sedimentary Basin - a Petroleum Digital Ecosystem

Nimmagadda, S.L, Dreher, H, Noventianto, A, Mustoffa, A, and Parapaty, H. (2013). Sedimentary Basin - a Petroleum Digital Ecosystem, proceedings of an international conference of IEEE, INDIN (Industrial Informatics), held in Bochum, Germany.

Multidimensional Data Warehousing and Mining - an Approach for Managing Multiple Reservoir Ecosystems

Nimmagadda, S.L, Dreher, H, Shtukert, O and Zolotoi, N. (2013). Multidimensional Data Warehousing and Mining - an Approach for Managing Multiple Reservoir Ecosystems, proceedings of IEEE, INDIN (Industrial Informatics), Bochum, Germany.

Data Integration Methodologies for Effective Management and Data Mining of Petroleum Provinces

Nimmagadda, S.L, and Dreher, H . (2013). Data Integration Methodologies for Effective Management and Data Mining of Petroleum Provinces, proceedings of IEEE-DEST (Digital Ecosystem Technologies), Stanford University, USA, July, 2013.

Ontology based Multidimensional Data Warehousing and Mining of Heterogeneous Unconventional Reservoir Ecosystems

Nimmagadda, S.L, Dreher, H. Cardona Mora, AP. Lobo, A. (2013).

Ontology based Multidimensional Data Warehousing and Mining of Heterogeneous Unconventional Reservoir Ecosystems, proceedings of IEEE, INDIN (Industrial Informatics), Bochum, Germany, July, 2013.

On Heterogeneous, Multidimensional Unconventional Reservoir Ecosystems

Nimmagadda, S.L, Dreher, H, Noventianto, A, Mustoffa, A and Parapaty, H. (2013).

On Heterogeneous, Multidimensional Unconventional Reservoir Ecosystems, international conference of EAGE, held in Kiev, Ukraine in May 2013.

2012

BLED eConference (25; 2012) Graduate student consortium

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Proceedings of APITITE 94 (Asia Pacific Information Technology in Training and Education) Conference, Brisbane, Australia, June 28- July 2, 1994 (with Dreher, L.H., and McCaw, K.) pp49-54

The Effectiveness of Hypertext to Support Quality Improvement

Hypertext Research Laboratory, Curtin University of Technology, Perth, Western Australia, in collaboration with The Water Authority of Western Australia. Project Report, March 1994.

1993

Information Systems Issues Hypertext (ISIH) - Version 4

Hypertext Research Laboratory, Curtin University of Technology, Perth, WA (with Strong, J.)

1992

Diversity in learning experiences, rich 'pictures', and hypertext - making it possible when it's humanly impossible

2nd International Organisational Behaviour Teaching Conference, 16-19 December 1992, Perth, Western Australia

WA Minerals hypertext

A hypertext of year 6 primary school childrens' project work , Hypertext Research Laboratory, Curtin University of Technology, Perth, Western Australia (with Gordon E.)

Information Systems Issues Hypertext (ISIH) - Version 2

Hypertext Research Laboratory, Curtin University of Technology, Perth, Western Australia (with Strong J.)

Beyond Retrieval; possibilities with hypertext technology

Information Retrieval in Libraries Conference, Curtin University of Technology, Perth, Western Australia, Saturday 19th September 1992

Water Bill 1990 Hypertext Project - a case study

Proceedings of the International Interactive Multimedia Symposium, Perth Western Australia. Promaco Conventions Pty. Ltd. 1992. pp525-534. (with Rosair P.B.)

1991

The Information Seeking Behaviour of Enrolling Students

Curtin Business School DVC's Lunchtime Seminar Series, October 2, 1991, Curtin University of Technology, Perth, Western Australia. (video recording) (with Pollock C.)

Uni Study as a Business Enterprise

The Consultant, Nr 4, April 1991,
Curtin University of Technology, Perth, Western Australia, p14.

Unit Outline Case Study

Technical Report, School of Psychology, Curtin University of Technology. (with Pollock C. and Whiteley A.)

A Prototype Hypertext Operating Manual for LNG Plant Dehydration Unit

Woodside North West Shelf Development Contract No. 10289E,
Woodside Offshore Petroleum P/L, Perth, Western Australia,
Hypertext Research Laboratory, Curtin University of Technology, Perth, Western Australia (with Wilkinson J.)

Teaching begins with enrolment but teacher has all the say: The use of IT to bring the students into the picture

18th Annual Organizational Behaviour Teaching Conference, Western Washington University, June 26-29, 1991 (with Whiteley A.)

1990

Hypertextual Tender Submission - Telecom Training's IMD Programme

Curtin Business Centre, December 1990, Perth, Western Australia. (with Whiteley A., et al.)

Towards a Generalized Framework for Group Decision Support Systems

ASOR Bulletin, Volume 9 Nr 4, December 1990. pp2-9 (with Siu T. H.)

First published in Proceedings Tenth ASOR National Conference,
Perth: Curtin University of Technology pp349-364, July 1990.

Discovering Hypertext Technology

Hypertext Research Laboratory & Curtin Business Centre, December 6th 1990. (seminar notes)

TXT2HTX - a software system to support conversion of Microsoft Word5 documents to HyperShell hyperfiles.

Hypertext Research Laboratory Technical Report Nr. 90-11a., School of Information Systems, Curtin University of Technology, Perth, Western Australia. (with Teo, Johnston and Nolan)

Information Technology and electronic mail: the effect on the education process

Forum on Improving University Teaching and Learning, Educational Development Unit, Curtin University of Technology, Perth, 8-9 February 1990

Excel Advanced Course - Transperth

Australian Institute of Management, Perth, February 1990

1989

MeetingWare Outcomes and some "Numeric" based Evaluation and Postprocessing

GDSS Research Group Meeting, Friday 10th November 1989, Curtin University
(seminar notes & software extensions to MeetingWare)

Alternative and Novel Uses for Existing Software Tools

ACC'89 Schools Congress, Perth, August 1989. (invited paper)

The Pendulum Problem: Experimentation in a Computer Culture

Master of Education Project, Curtin University of Technology Perth, January 1989 (unpublished thesis)

1988

On-Line Enrolments: Requirements for Curtin University

Information Services, Curtin University of Technology, December 1988. (consultancy report)

1985

Student Assignments and Feedback via Electronic Mail

Computer Assisted Learning in Tertiary Education Conference University of Melbourne, December 1985 (refereed Conference Paper)

St. John Ambulance Association; Community Perceptions and Expectations
October/November 1985 - Business Systems Centre at WAIT. (consultancy report)

State Schools Teachers Union of WA Filing System Review,
Business Systems Centre, 1984/85. (consultancy report)

1984

Structured Programming

WA Education Department, Schools Computing Branch, Perth, October 1984. (invited paper)

Electronic Mail: an Exemplar of Computer Use in Education

Educational Technology, Englewood Cliffs, USA, August 1984 pp. 36-38. (refereed journal article)

1983

Educational Resources Directory

Confederation of WA Industry and Centre for Business Research & Development, 1983, 1984.
(applied R&D report, database, software package)

1982

Computing: Courses & Careers WA

Australian Computer Society, 1982, 1983, 1984, (principal editor)

Programming Your Personal Computer

Information Technology Week, Perth, September 1982 (invited paper)

Computer Programming & Problem Solving

WA Education Dept. Gifted & Talented Children's Programme Perth, September 1982. (invited paper)

The Effect of Keyboard Training on Information Processing Students' Time Utilization on a Multitasking Real-time Computer System

13th Australian CAE Computer Conference, Launceston, Tasmania, August 1982

Computer Technology and the Clerical Industry

Federated Clerks Union, Perth, July 1982 (invited paper)

Program Design

Australian Mineral Foundation/SRIA, Perth, July 1982 (invited paper)

The Ubiquitous Micro

ACS WA Branch 5th Annual Conference, Mandurah, May 1982 (invited paper)

1981

You and the Computer

Dreher, H. and Giannini, L. (1981, 1982). WAIT Press, May 1982
(1st Edition, February 1981; 2nd Edition, May 1981). (seminar notes & software package)

Shire of Swan Computing System Tender Evaluation

Business Systems Centre, December 1981. (consultancy report)

Effective Time Management for Information Processing Students

(with Luber, M.), WAIT, Perth, October 1981 (seminar notes)

Computer Careers/Education

Information Technology Week, Perth, August 1981 (invited paper)

Evaluating Microcomputers for Small Business Applications

Perth Chamber of Commerce, Perth, April 1981 (invited paper)

Student Appraisal of Teaching (SAT)

EDU at WAIT, 1981 (Evaluation instrument & software system)

Evaluating Microcomputers

ACS Professional Development Seminar
(with Newman & Crawford) Perth, September 1981 (seminar notes)

What is a Computer

Information Technology Week, Perth, August 1981 (invited paper)

1980

Computing for Pharmacists

Southern Pharmacists Association, Busselton, March 1980 (invited paper)

An Introduction to COBOL Programming (Ed.2)

WAIT Press, July 1980, (1st Edition, February 1979) (course notes)

1979

Small Business Computing - a Current Assessment

WAIT Press, November 1979 (seminar notes)

Academic-Industrial Links: the Mentor Scheme

Educational Development Unit, WAIT, September 1979 (invited paper)

Federated Clerks Union, Perth, March 1979 (invited paper)

1978

State of The Art in Computing Technology

Trade Union Training Authority Summer School University of Western Australia, December 1978
(invited paper)

Problem Solving & Computer Programming

WAIT Press, November 1978 (course notes)

1977

Computers & Computing (Ed.2)

WAIT Press, August 1978, (1st Edition, October 1977) (seminar notes and software package)

Control over Input in an On-Line System

Dreher, H. and Palmer, J. (May 1977)

Institute of Internal Auditors, Perth Chapter, Claremont, May 1977 (invited paper)

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