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Appendices

A

Mobile network operators in Hong Kong

There were six licensed personal-communication-service-licensed operators. The personal-communications-service operators are also licensed operators of mobile networks. Thus, the Territory's MNOs are (1) Hong Kong CSL Limited, (2) Hutchinson Telephone Company Limited, (3) SmarTone Mobile Communications Limited, (4) PCCW Mobile HK Limited, (5) New World PCS Limited, and (6) China Mobile Peoples Telephone Company Limited.¹ Henceforth, we indicate them by

- 1 CSL
- 2 Hutchinson
- 3 SmarTone
- 4 PCCW
- 5 New World
- 6 Peoples

The figures below illustrates the market share of the respective MNOs in Hong Kong as at early 2005 (Figure A1) and the mobile market in Hong Kong as at early 2006 (Figure A2). In Figure A1, ARPU stands for Average Rate Per User.

<i>Operator</i>	<i>CSL</i>	<i>Hutchinson</i>	<i>SmarTone</i>	<i>PCCW</i>	<i>New World</i>	<i>Peoples</i>
Number of subscribers	1,300,000	2,195,000	1,033,000	684,000	1,300,000	1,130,000
ARPU	309	156	196	180	171	156
Market share	17.01%	28.72%	13.52%	8.95%	17.01%	14.79%
Technology adopted	GSM DAMP PCS WCDMA	GSM CDMA PCS WCDMA	GSM PCS WCDMA	PCS WCDMA	PCS	PCS

Figure A1: Market Share of Mobile Network Operators in Hong Kong (Early 2005).²

Recently, the number of MNOs was reduced to five by CSL merging with New World.³

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- 1 See operator declared compliance status at http://www.ofa.gov.hk/en/b_m_issues/compliance_status_voluntary.pdf
 - 2 Annual Reports of Operators, OFTA referred to in The Regulatory Environment For Future Mobile Multimedia Services, Hong Kong and China 2006, available at www.itu.int/osg/spu/ni/multimobile/papers/ChinaHKmobilemulti.pdf
 - 3 CSL New World Mobility Ltd was created to own two mobile telephone operators, New World PCS Ltd and HK CSL Ltd.

In addition to the five operators, seven MVNO licenses have been issued. The seven MVNOs are (1) Trident Telecom Ventures Ltd., (2) China Motion Telecom, (HK) Ltd., (3) China-Hongkong Telecom Limited, (4) China Unicom International Limited, (5) CITIC Telecom 1616 Limited, (6) IMC Networks Ltd., and (7) Telecom Digital Mobile Limited.⁴

	<i>CSL</i>	<i>Hutchinson</i>	<i>SmarTone</i>	<i>PCCW</i>	<i>Peoples</i>
Networks	2G, 3G	2G, 3G	2G, 3G	2G, 3G	2G
No. of 2G users	2,080,000	1,674,000	1,054,000	738,000	1,287,000
No. of 3G users	60,000	521,000	100,000	100,000	N/A
Total No. of users	2,680,000	2,195,000	1,154,000	838,000	1,287,000
Market share	31%	25.4%	13.4%	9.7%	14.9%

Figure A2: Mobile Market in Hong Kong (Early 2006).

4 See mobile virtual network licensees at <http://www.ofta.gov.hk/en/tele-lic/operator-licensees/mvno-lic.html>

B

A case sample

Case sample – CSL New World Mobility Ltd

To provide some more insights into the world of telecommunication in Hong Kong, we propose at this stage to view the content provided by the MNOs in Hong Kong. For this purpose, we will look at the web pages of CSL New World Mobility Ltd (CSL). CSL is selected as the MNO has the largest number of subscribers (31%) registered in Hong Kong.⁵

CSL New World Mobility Limited⁶ (CSL) has an impressive history. The company launched the first commercial General Packet Radio Service (GPRS) in Hong Kong in November 2000, introduced Asia's first MMS in March 2002, and was also the first in Asia to deploy Enhanced Data Rates for GSM Evolution (EDGE) in September 2003.⁷ In December 2004, the Company launched its 3G and Wi-Fi services.⁸ Its High Speed Downlink Packet Access (HSPDA) service was launched in September 2006.⁹ The company was also reported to have launched Asia's first Video Sharing service in November 2005 and Hong Kong's first 3G Mobile TV in February 2006.¹⁰ CSL markets its services through its mobile brands, 1010, One2Free, and New World Mobility. For the present purposes, we shall be considering the contents offered by One2Free (see 2.4.1). We will also mention the contents offered by Hutchinson¹¹ and PCCW.

One2Free

From the home page of One2Free, amongst other matters, information is provided on (1) 3G and infotainment, (2) downloads, and (3) mobile electronic mail and messaging. Under the icon 3G, subscribers are provided with various channels to watch over their mobile phone. Some channels available are BBC world, fashion TV, Bloomberg television, latest local TV drama, and soundtrack channel.¹² The infotainment channel

⁵ As at early 2006, see *supra* Figure A2.

⁶ CSL New Mobility is 76.4% beneficially owned by Telstra Corporation Limited and 23.6% beneficially owned by New World Mobile Holdings Limited.

⁷ http://www.hkcsll.com/en/about_us/corporate_profile.jsp

⁸ *Supra*.

⁹ *Supra*.

¹⁰ *Supra*.

¹¹ Hutchinson, provides similar contents and services. Their services include entertainment, fortune, games, comedy, music, live TV, cartoon and playboy. Betting services for horse racing, Mark Six lottery and football are available on their website with instructions and charging details.

¹² The website states there are over 30 news and entertainment channels providing 24 hours on-air viewing.

provides a music channel, an entertainment channel, a news channel, a finance channel, a football channel, Disney mobile, Discovery Channel, and an adult channel. The entertainment channel for example, provides Variety – dining and travel guide, latest local drama, i-cable entertainment, funny videos, and cartoons. Brief descriptions of the various programmes, ‘how to’ instructions together with charges and subscriptions are provided. For instance, the Racing channel provides all the information you need to place a bet and to follow the races. Other examples are: the date, start time, and course information are provided together with the horse’s name, jockey’s name, and their numbers. Moreover, information is provided on the odds by the Hong Kong Jockey Club to enable punters to make an informed betting decision. Finally, a mobile online betting service is provided with instructions.

Subscribers of One2Free can download, (1) full songs, MP3 ring-tones, polyphonic ring-tones, and monophonic ring-tones under ‘Music’, (2) various wallpapers such as theme wallpapers, under ‘wallpapers’, and (3) java games under ‘games’. There is also a Chinese mobile bookstore for subscribers keen on reading.

For comparison, we mention that Hutchinson, provides similar content and services. Their services include entertainment, fortune, games, comedy, music, live TV, cartoon, and playboy. Betting services for horse racing, Mark Six lottery, and football are available on their website with instructions and charging details.¹³

So, we may observe that the mobile sector is a vibrant sector. Evidence indicates that MNOs continuously offer new products and applications to lure subscribers.¹⁴

13 See content services and applications available on Three Hutchinson available at http://www.three.com.hk/website/appmanager/three/home?_nfpb=true&pageid=000001&pageLabel=P200170391219567376547&lang=eng

14 For instance, PCCW has launched “Moov on Mobile” making 60,000 song library available to its PCCW mobile subscribers via streaming technology. The service allows their subscribers to use a computer to compile their personalised playlists online at <http://MOOV.now.com.hk/mobile> and enjoy the same playlist on a mobile phone http://www.cahk.hk/Publication/12/Bulletin_Spring%202007.pdf

C

Convergence at three levels and convergence of sectors

In this section, we briefly examine the technological and market convergence that is taking place. In this respect, we will consider technological convergence in the form of (1) network convergence in (a), and (2) service convergence in (b). Market convergence is separately considered in part (c). We remark that all three levels are distinct from each other, yet they are interconnected with each other. In (d), we show the convergence of sectors.

(a) Network convergence

Network convergence has been described as the ability of different network platforms to carry essentially similar kinds of services. The convergence is possible because distinct industries such as telecommunications, computing, media, and broadcasting, can share and utilise the same infrastructure or communication resources. As digitisation does not discriminate between types of information or data, the same infrastructure has facilitated the integration of the once-upon-a-time distinct networks into one 'all encompassing network'. The best example of convergence at the network level is the Internet. The Internet carries voice signals via voice over Internet Protocol (VoIP), video images via video streaming and video conferencing, and radio via Internet radio.¹⁵ It is all made possible because the TCP/IP (transmission control protocol/Internet protocol) is the common protocol underlying the Internet's infrastructure.¹⁶

(b) Service convergence

Convergence at the services level (also known as functional convergence¹⁷) can be understood to encompass situations where the current technology is offering functions and services that go beyond what they were originally designed to do. Prime examples of this are the television, computer, and the mobile phone. With the coming together of broadcasting, computing, and telecommunication on a single communication plat-

15 Seng, D., (2000), Regulatory Frameworks for Convergence? Issues Arising from New Regulatory Frameworks in view of the Increasing Convergence of Conventional Telecommunications Models & Cybercommunications, in The Singapore Conference: Leading the Law and Lawyers into the New Millennium @2020, edited by Singapore Academy of Law, p. 201-240. Singapore: Butterworths Asia.

16 The transmission of data (text, voice, still or moving images) is more expedient with packet switching technology as opposed to the conventional circuit switching technology. It is this packet switching technology together with digitisation that stimulates convergence.

17 Convergence in Macro Environment and Telecommunications, available at <http://cbdd.wsu.edu/kewlcontent/cdoutput/tr501/page29.htm>

form, the consumer is able to receive via a single screen, be it a television screen, computer or mobile screen, a wide range of services and applications. We remark that the convergence is possible as a result of the non-exclusive use of microprocessors. Where microprocessor chips were once developed for use in computers, its use has been extended and expanded to all manner and form of modern age equipment (devices). As a result, these devices by reason of the commonality of microprocessor chips, are capable of being connected with other forms of 'intelligent devices', and in being so connected, they acquire, share, and disseminate the content and intelligence with other devices. Under such conditions, we have the mobile phone as a device capable of receiving, providing, and exchanging interactive data ranging from television and broadcasts, via information on traffic and weather conditions, to shopping locations and discount vouchers.

(c) Market convergence

In comparison to technological convergence (a) and service convergence (b), market convergence is the result of financial and strategic considerations. We see convergence at the market level establishing itself when traditional players of telecommunication, media, computing, and broadcasting seek to find new synergies between themselves in the types of services or content they offer. In other words, upon strategic alliance, an industry player can independently provide a 'whole value chain of content to communications to consumption' to its consumers.¹⁸ An example of this is the well known merger of America OnLine (AOL) and Time Warner.¹⁹ The merger resulted in a unique platform in which the value chain from the production of content, computing, and packaging and delivery to consumer are fully covered.²⁰

(d) Convergence of sectors

In Figure C1, we see an illustration of market convergence occurring between the four main market sectors, that is, information technology, telecommunication, broadcasting, and other media. We relate them to services, software, and hardware.

¹⁸ Supra Seng, n. 15.

¹⁹ AOL Inc., was the largest internet service provider in the United States and Time Warner was the largest media and cable conglomerate. See http://en.wikipedia.org/wiki/Time_Warner. The AOL-Time Warner merger is listed as the top merger-acquisition deal since 2000. Its transacted value was U.S. \$165,747,000 million.

²⁰ At the time of the merger, it was envisaged that AOL-Time Warner would offer a full spectrum of media and content from Internet to broadcast, and from cable television to film, to music, to magazines, and to books.

	<i>I.T.</i>	<i>Telecom</i>	<i>Broadcasting</i>	<i>Other media</i>
Content/ services	Software- based content	Telecom-based services and content	Broadcast programs	Film, music, newspapers, etc.
Network/ software	Generic software	Network services	Transmission	Cinemas, video rentals, etc.
Equipment/ hardware	Hardware	Telecom equipment	Broadcast equipment	Reproduction of films, printing, etc.

Figure C1: Convergence of sectors.²¹

Figure C1 illustrates (1) the sectors involved, and the levels of activities from equipment/hardware (at the bottom) and network /software (in the middle) to content/service provision (at the top), and (2) the many possibilities for convergence at (2a) a horizontal level between different sectors as well as (2b) the vertical integration between different levels.

In Figure C2, we provide a table which illustrates the convergence process occurring at four different levels. The levels are (1) Service providers, (2) Terminal equipment, (3) Modes of delivery, and (4) Service offerings. Within each level we show the development by listing the elements from a – d. In (d), we find the current state of affairs.

<i>(1) Service providers</i>		<i>(2) Terminal equipment</i>	
Power/utility service	a	Television	a
Broadcasting service	b	Computer	b
Cable service	c	Fixed handset	c
Telecommunication service	d	Mobile handset	d
<i>(3) Modes of delivery</i>		<i>(4) Service offerings</i>	
Copper wires	a	One stop service	a
Fiber/coaxial cables	b	Integrated company operations	b
Radio frequencies	c	Flat rate price services	c
Satellite	d	Bundling of packages such as triple play and quadruple play	d

Figure C2: Convergence at different levels²²

21 Henten, A., Falch, M., and Tadayoni, R., (2002) Some Implications for regulation of ICT and Media Convergence, *World Dialogue on Regulation for Networked Economies*, Discussion Paper, Center for Tele-Information, Technical University of Denmark; available at <http://www.regulateonline.org/2003/2002/dp/dp0202.htm>

22 Matilla, O., (2006) Overview of Convergence, NGN, VoIP and related regulatory challenges, available at http://www.itu.int/ITU-D/afr/events/Dakar-2006_Regulatory_Challenges_of_VoIP_Africa/Presentations/Day1/Dakar_1_Overview_of_convergence_NGN_and_VoIP_plus_related~.pdf

We re-iterate that Figure C2 illustrates convergence occurring at four different levels. For example, the provision of services is no longer restricted to a fixed equipment, or the size of the equipment i.e., via the television or the computer. Instead, services are accessible via the smaller, portable, and mobile handset. Services offered to users are also innovatively attractive, and increasingly more user-price sensitive. This is evidently seen in the bundling of packages and flat rate price services such as triple and quadruple play offered by service providers.

D

Hong Kong's way forward: Towards a converging environment

Typically, regulation in the communications sector takes the form of licensing. However due to convergence, we have established that necessary changes in the framework are required. The change should be one that appropriately reflects the rapidly converging communication media environment. A change in traditional licensing regimes should be a way forward. This can be reflected in one of various ways, that is, (1) from a technology or service specific structure, to one that is technology neutral, or (2) designing and complementing a simplified set of licensing categories, or (3) implementing a unified (single) license or market entry procedure for all technologies and services.²³

Under three subheadings we will discuss: a unified licensing scheme for fixed mobile convergence in (a), a broadband wireless application (b), and other initiatives (c). Specifically, we will investigate what are the changes made to the existing regulatory framework?

(a) Unified licensing scheme for fixed mobile convergence

In so far as Hong Kong is concerned, OFTA is interested in (1) acknowledging the ongoing and continuously converging environment, and (2) the aims of removing barriers to such an environment. Therefore, OFTA has recently invited public views on a new licensing scheme for fixed mobile convergence in the telecommunication sector. This augurs well for a vibrant sector where the distinction between fixed and mobile network and the provision of services are becoming blurred.²⁴ At present, there are two major types of carrier licenses, namely, (a) a fixed carrier license, and (b) a mobile carrier license. The existing separate licensing frameworks for fixed and mobile services may not be sustainable in the fixed mobile converging environment since in an increasingly converging environment, it is difficult to classify a service as being solely fixed or mobile as the service may be used by consumers at fixed locations on some occasions

23 Torre, M. D.L., and Rush, C., (2006), Key Regulatory issues in an Era of Convergence, available at http://www.tmgtelecom.com/_PDFS/Key_Regulatory_Issues_in_an_Era_of_Convergence.pdf.

24 Two rounds of regulatory review for fixed mobile convergence framework were carried out in 2005 and 2006. Essentially, the review was centered upon a) the existing one-way fixed/mobile interconnection charge structure, b) the feasibility and the cost-benefits of implementing fixed/mobile number portability and c) the possibility of a new carrier licence which will allow a licensee to offer flexibly various mobile, fixed or nomadic network services. See www.ofa.gov.hk/en/speech/presentation/dg_20050125.pdf. In addition to this, OFTA has also commenced a comprehensive review of spectrum management policies to ensure efficient use of this scarce resource. In accordance with the Government's new spectrum policy, OFTA will make available spectrum to the market, including the spectrum which enables the provision of mobile services based on the CDMA 2000 standard and the spectrum for broadband wireless access (BWA).

and in motion on other occasions.²⁵ Accordingly, a new licensing scheme, i.e., a single Unified Carrier License (UCL) is proposed for the licensing of all kinds of fixed, mobile, and converged telecommunication services.²⁶ It is intended that the UCL will replace services currently provided under four existing carrier licenses, i.e., (a) fixed carrier license, (b) fixed carrier (restricted) license, (c) mobile carrier license, and (d) mobile carrier (restricted) license.²⁷

The new UCL will be issued to all new applicants. Existing operators may voluntarily apply to have their licenses converted to UCL before the expiry of their respective licenses.²⁸ The period of validity for the UCL is 15 years, the same period as the existing carrier licenses. UCL will adopt the same set of General Conditions imposed by the Secretary of Commerce and Economic Development in the existing carrier licenses. The conditions are imposed to ensure that all carriers licensed to provide public telecommunication services will have the same basic obligations.²⁹ It is also proposed that the license fee for UCL will be align (1) to cover the cost of the Telecommunication Authority (TA) for administering the licenses, and (2) to encourage the efficient use of telephone numbers by the operators.³⁰

In addition, a set of Special Conditions will also be imposed on all UCLs. These Special Conditions will align some current obligations under fixed and mobile services

25 Two rounds of regulatory review for fixed mobile convergence framework were carried out in 2005 and 2006. Essentially, the review was centered upon a) the existing one-way fixed/mobile interconnection charge structure, b) the feasibility and the cost-benefits of implementing fixed/mobile number portability and c) the possibility of a new carrier licence which will allow a licensee to offer flexibly various mobile, fixed or nomadic network services. See www.ofta.gov.hk/en/speech/presentation/dg_20050125.pdf. In addition to this, OFTA has also commenced a comprehensive review of spectrum management policies to ensure efficient use of this scarce resource. In accordance with the Government's new spectrum policy, OFTA will make available spectrum to the market, including the spectrum which enables the provision of mobile services based on the CDMA 2000 standard and the spectrum for broadband wireless access (BWA).

26 Legislative Council Panel on Information Technology and Broadcasting papers; see www.legco.gov.hk/yr07-08/english/panels/itb/papers/itb0114cbi-601-1-e.pdf

27 These licences are prescribed under the Telecommunication (Carrier Licence) Regulation (Cap. 106V)

28 Supra OFTA press release, n. 25.

29 Malaysia adopted a new licensing framework which simplified the existing 31 service-based licenses into four broad technology-neutral licensing categories: Network Facilities Provider (NFP); Network Services Provider (NSP); Application Services Provider (ASP); and Content Application Service Provider (CSP; a special subset of application services that includes television and radio broadcast services and Internet content services. See Malaysia's Communication and Multimedia Act 1998 available at www.mcmc.gov.my/mcmc/thelaw/ViewAct.asp?cc=4446055&lg=earid=900722

By contrast, Singapore licensing scheme provides for two categories of licenses for the provision of telecommunications services: (1) Facilities-Based Operator (FBO) licenses and (2) Services-Based Operator (SBO) permits. The FBO license is always an individual license, whereas the SBO may be an individual license or, for some services, a class license. See Information Development Authority of Singapore (IDA), available at www.ida.gov.sg/idaweb/pnr/infopage.jsp?infopagecategory=licensing;pnr&versionid=14&infopageid=I3616

30 The new number fee provides an incentive for operators to ensure efficient use of telephone numbers as a scarce public resource. In this respect, license fees may be reduced by returning unused telephone numbers to the TA.

such as (a) interconnection,³¹ (b) tariff publication, (c) ex-post tariff regulation, and (d) number portability.³² Special Conditions are also imposed for consumer protection requiring the licensee to comply strictly with any code of practice or guideline issued by the TA for the purpose of providing practical guidance in respect to (1) provision of satisfactory service, (2) protection of customer information, and (3) protection and promotion of consumers' interest.³³ The Special Conditions imposed by the TA to protect consumers include (a) the provision of a minimum set of information to customers such as tariff charges and name of licensee, and (b) to comply with the codes of practice in respect to requirements on telecommunications service contracts. We have observed that the Special Conditions imposed by the TA does not provide for the protection of children and young people.

In relation to (b) our investigations reveal that there have been an increasing number of complaints against telecommunication operators in respect of service contracts. Consumer complaints are generally outside the purview of the TA.³⁴ Nevertheless, a new Special Condition on service contracts and a dispute resolution will be imposed by the TA. The new condition requires a licensee to comply with any code of practice which the TA might issue in respect of the requirements to apply in contracting of telecommunication services to consumers.³⁵ This may include (a) contract documentation, (b) manner of entering into and terminating service contracts, (c) submission of disputes to an independent dispute resolution, and (d) providing a formal framework for handling contractual disputes.³⁶

(b) Broadband wireless access

Apart from fixed mobile convergence, a second key enabler of convergence is broadband wireless access (BWA).³⁷ The role of BWA cannot be neglected since it contributes significantly to the overall structure of convergence by serving both fixed and mobile customers. Thus, this technology must be taken into account when considering the need for a unified license. Currently, all local fixed network operators are allowed under their licenses to provide broadband services. After three rounds of consultation, the TA has proposed to make available 2.3 to 2.4 GHz band for the provision of BWA

31 With respect of interconnection arrangements, the TA has recommended that the current practice of 'mobile party network pays' for interconnection charges be phased out within two years. Thereafter, the network operators will freely negotiate terms and conditions for mutually agreeable interconnection settlement arrangement. However, under section 36A, the TA will retain his power to make a determination in the event an agreement cannot be reached between the operators. See Legislative Council Panel on Information Technology and Broadcasting, Conclusion on Consultation on De-Regulation of Fixed Mobile Convergence, LC Paper No. CB(1)1831/06-07(14), 11 June 2007, available at <http://www.legco.gov.hk/yr06-07/english/panels/itb/papers/itb0611cb1-1831-14-e.pdf>

32 Fixed mobile number portability relates to a single user number which can be used (ported) for access of both fixed and mobile services.

33 Supra OFTA press release, n. 25.

34 These complaints are generally dealt with by the Consumer Council.

35 Supra OFTA press release, n. 25.

36 Supra n. 3. In relation to this, the TA is currently discussing with major telecommunication operators on establishing a 'Consumer Dispute Adjudication Scheme'.

37 BWA is a wireless technology for connecting end-users to telecommunications networks for voice, data and multimedia communications.

services. The proposal was to assign the BWA spectrum using a market-driven approach. With such an approach, the BWA spectrum will be assigned by auction.³⁸ It is expected that six BWA licenses, each with a maximum of 30 MHz of spectrum will be issued and a lump sum payment method (as opposed to a royalty payment method) for the Spectrum Utilisation Fee will be employed.³⁹

In addition to network operators, Internet service providers (ISPs) are also allowed to provide broadband services. Thus, as at October 2008, there were 168 ISPs licensed to provide broadband services. Together with ISPs, more than 1.793 million registered customers representing 77.4% of households in the residential market, have access to broadband services with speeds up to 1,000 Mbps (Megabits per second).⁴⁰

(c) Other initiatives

Rapid advances in the broadband technologies and the increasing convergence between telecommunications and broadcasting have created opportunities for telecommunications operators to offer new services, such as IP Television (IPTV) services. In fact, "triple-play" services, that is telephony, broadband access, and TV, and "quadruple-play" services: telephony, broadband access, TV, and mobile are becoming increasingly common services offered by operators. This is reflected in the over 1,000,000 IPTV subscribers in Hong Kong (as at February 2008). Though the number does not seem high, it remains a significant number when compared to Hong Kong population of 7 million. The number thus represents a household penetration of 48% (as of May 2008), making Hong Kong the most advanced IPTV market in the world.⁴¹

Further and in addition to IPTV service, we note that OFTA has, introduced as part of their regulatory review in response to an increased interest and utilisation of Internet Protocol telephony or VoIP, a two class regulatory framework for Internet Protocol telephony or VoIP.⁴² The new framework allows network providers and service-based providers to provide integrated multimedia services and voice telephony over Internet Protocol with a new license known as Service Based Operator Licence.⁴³

³⁸ This is expected to take place in the last quarter of 2008.

³⁹ The same lump sum payment approach as opposed to a royalty based approach was adopted in the spectrum auction of CDMA2000 services.

⁴⁰ OFTA Trading fund Report 2006-07; available at <http://www.ofta.gov.hk/en/trade-fund-report/0607/pdf>.

⁴¹ OFTA Trading Report 2007-08; available at <http://www.ofta.gov.hk/en/trade-fund-report/0708/pdf/full.pdf>.

⁴² Class 1 service license will have all the attributes of a conventional telephone service. Carriers are required to therefore fulfill the licensing conditions of FTNS or fixed carrier licenses relevant to the provision of local voice telephony services. Class 2 licenses will be issued to services which do not possess the conventional telephone services. As such, the issuance of such licenses will have minimal licensing conditions.

⁴³ Supra OFTA Trading fund Report 2006-07, n. 40.

Curriculum Vitae

Rebecca Ong was born in Malaysia on 26 October 1961. She completed her degree in law at the University of London, her first LLM at King's College, London and her second LLM (in Information Technology Law) at the University of Strathclyde in Glasgow. Rebecca has been admitted as a Barrister at Law (Lincoln's Inn) in England and had practised as an Advocate and Solicitor in Malaysia before moving into the academia. She has since taught in various educational institutions and is currently attached to the School of Law at City University of Hong Kong.

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(UvT/UL), Prof.mr. A.H.J. Schmidt (UL)

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Naar een effectieve waarborging*

Promotores: Prof.dr. H.J. van den Herik

(UvT/UL), Prof.mr. A.H.J. Schmidt (UL)

Copromotor: Mr. dr. L. Mommers (UL)

Promotie: 14 April 2010

2010-10

Rebecca Ong (UL)

*Mobile Communication and the Protection of
Children*

Promotor: Prof.dr. H.J. van den Herik

(UvT/UL)

Copromotor: Mr.dr. B. Schermer

Promotie: 22 April 2010

2010-11

Adriaan Ter Mors (TUD)

*The world according to MARP: Multi-Agent
Route Planning*

Promotor: Prof.dr. C. Witteveen (TUD)

Copromotor: Dr.ir. F. A. Kuipers (TUD)

Promotie: 15 March 2010

2010-12

Susan van den Braak (UU)

Sensemaking software for crime analysis

Promotor: Prof.dr. J.-J.Ch. Meyer (UU),

Prof.dr.mr. H. Prakken (UU / RUG)

Copromotor: Dr. H. van Oostendorp

(UU), Dr. G.A.W. Vreeswijk (UU)

Promotie: 15 March 2010

2010-13

Gianluigi Folino (RUN)

High Performance Data Mining using Bio-inspired techniques

Promotor: Prof.dr. T.M. Heskes (RUN)

Copromotor: Dr. E. Marchiori (RUN)

Promotie: 22 March 2010

2010-14

Sander van Splunter (VU)

Automated Web Service Reconfiguration

Promotor: Prof .dr. F. M.T. Brazier (TUD)

Copromotor: Dr. P.H.G. van Langen

(TUD)

Promotie: 29 March 2010

2010-15

Lianne Bodestaff (UT)

Managing Dependency Relations in Inter-Organizational Models

Promotor: Prof.dr. R.J. Wieringa (UT),

Prof.dr. M. Reichert (University of Ulm)

Promotie: 17 June 2010

2010-16

Sicco Verwer (TUD)

Efficient Identification of Timed Automata, theory and practice

Promotor: Prof.dr. C. Witteveen (TUD)

Copromotor: Dr. M. de Weerdt (TUD)

Promotie: 02 March 2010

2010-17

Spyros Kotoulas (VU)

Scalable Discovery of Networked Resources: Algorithms, Infrastructure, Applications

Promotor: Prof.dr. F. van Harmelen (VU)

Copromotor: Dr. R. Siebes (VU)

Promotie: 24 March 2010

2009

2009-01

Rasa Jurgelenaite (RUN)

Symmetric Causal Independence Models

Promotor: Prof.dr. T.M. Heskes (RUN)

Promotie: 19 January 2009

2009-02

Willem Robert van Hage (VU)

Evaluating Ontology-Alignment Techniques

Promotor: Prof.dr. G. Schreiber (VU)

Promotie: 19 January 2009

2009-03

Hans Stol (UvT)

A Framework for Evidence-based Policy

Making Using IT

Promotor: Prof.dr. H.J. Van den Herik

(UvT)

Promotie: 21 January 2009

2009-04

Josephine Nabukenya (RUN)

Improving the Quality of Organisational

Policy Making using Collaboration

Engineering

Promotores: Prof.dr. E. Proper (RUN),

Prof.dr.ir. G.- J. de Vreede, University of

Nebraska at Omaha, USA

Copromotor: Dr. P. van Bommel (RUN)

Promotie: 03 March 2009

2009-05

Sietse Overbeek (RUN)

Bridging Supply and Demand for Knowledge

Intensive Tasks - Based on Knowledge,

Cognition, and Quality

Promotor: Prof.dr. E. Proper (RUN)

Promotie: 24 April 2009

2009-06

Muhammad Subianto (UU)

Understanding Classification

Promotor: Prof.dr.A.P.J.M. Siebes (UU)

Promotie: 14 January 2009

2009-07

Ronald Poppe (UT)

Discriminative Vision-Based Recovery and

Recognition of Human Motion

Promotor: Prof.dr.ir. A. Nijholt (UT)

Copromotor: Dr. M. Poel (UT)

Promotie: 02 April 2009

2009-08

Volker Nannen (VU)

Evolutionary Agent-Based Policy Analysis in Dynamic Environments

Promotores: Prof.dr. J. van den Bergh (VU), Prof.dr. A.E. Eiben (VU)

Promotie: 16 April 2009

2009-09

Benjamin Kanagwa (RUN)

Design, Discovery and Construction of Service-oriented Systems

Promotor: Prof.dr.ir. Th. van der Weide (RUN)

Promotie: 21 April 2009

2009-10

Jan Wielemaker (UVA)

Logic programming for knowledge-intensive interactive applications

Promotores: Prof.dr. B.J. Wielinga (UvA), Prof.dr. A.Th. Schreiber (VU)

Promotie: 12 Juni 2009

2009-11

Alexander Boer (UVA)

Legal Theory, Sources of Law & the Semantic Web

Promotor: Prof.dr. T. M. van Engers (UVA)

Copromotores: Prof.dr. J. A. P. J. Breuker (UVA), Dr. R. G. F. Winkels (UVA)

Promotie: 25 Juni 2009

2009-12

Peter Massuthe (TUE, Humboldt-Universitaet zu Berlin)

Operating Guidelines for Services

Promotores: Prof.dr. Kees van Hee (TUE), prof.dr. Wolfgang Reisig (Humboldt-Universitaet zu Berlin)

Copromotor: prof.dr. Karsten Wolf (Universitaet Rostock)

Promotie: 21 April 2009

2009-13

Steven de Jong (UM)

Fairness in Multi-Agent Systems

Promotor: Prof.dr. H.J. van den Herik (UvT), Prof.dr. E.O. Postma (UvT)

Copromotor: Dr. K. Tuyls (TUE)

Promotie: 04 June 2009

2009-14

Maksym Korotkiy (VU)

From ontology-enabled services to service-enabled ontologies (making ontologies work in e-science with ONTO-SOA)

Promotores: Prof.dr. J. Top (VU)

Promotie: 18 June 2009

2009-15

Rinke Hoekstra (UVA)

Ontology Representation - Design Patterns and Ontologies that Make Sense

Promotor: Prof.dr. J.A.P.J. Breuker (UVA)

Copromotores: Prof.dr. T.M. van Engers (UVA), Dr. R.G.F. Winkels (UVA)

Promotie: 18 September 2009

2009-16

Fritz Reul (UvT)

New Architectures in Computer Chess

Promotor: Prof.dr. H.J. van den Herik (UvT)

Copromotor: Dr. J.W.H.M. Uiterwijk (UM)

Promotie: 17 June 2009

2009-17

Laurens van der Maaten (UvT)

Feature Extraction from Visual Data

Promotores: Prof.dr. E.O. Postma (UvT), Prof.dr. H.J. van den Herik (UvT)

Copromotor: Dr. A.G. Lange (RACM)

Promotie: 23 June 2009

2009-18

Fabian Groffen (CWI)

Armada, An Evolving Database System

Promotor: Prof.dr. M.L. Kersten (CWI/UvA)

Copromotor: Dr. S. Manegold (CWI)

Promotie: 10 June 2009

2009-19

Valentin Robu (CWI)

Modeling Preferences, Strategic Reasoning and Collaboration in Agent-Mediated Electronic Markets

Promotor: Prof.dr. H. La Poutre (CWI/TUE)

Promotie: 02 July 2009

2009-20

Bob van der Vecht (UU)

Adjustable Autonomy: Controlling Influences on Decision Making

Promotor: Prof.dr. J.-J. Ch. Meyer (UU)

Copromotor: Dr. F.Dignum (UU)

Promotie: 06 July 2009

2009-21

Stijn Vanderlooy(UM)

Ranking and Reliable Classification

Promotor: Prof.dr. H.J. van den Herik

(UvT), Prof.dr. Th.A. de Roos (UM),

Prof.dr.rer.nat. E. Hüllermeier, Philipps-

University of Marburg, Germany

Promotie: 01 July 2009

2009-22

Pavel Serdyukov (UT)

Search For Expertise: Going beyond direct evidence

Promotor: Prof.dr. P.M.G. Apers (UT)

Copromotor: Dr. D. Hiemstra (UT)

Promotie: 24 June 2009

2009-23

Peter Hofgesang (VU)

Modelling Web Usage in a Changing Environment

Promotor: Prof.dr. A.E. Eiben (VU)

Copromotor: Dr. W. Kowalczyk (VU)

Promotie: 08 October 2009

2009-24

Annerieke Heuvelink (VU)

Cognitive Models for Training Simulations

Promotor: Prof.dr. J. Treur (VU)

Copromotor: Dr. K. van den Bosch

(TNO), Dr. M. C. A. Klein (VU)

Promotie: 11 September 2009

2009-25

Alex van Ballegooij (CWI)

"RAM: Array Database Management through Relational Mapping"

Promotor: Prof.dr. M.L. Kersten

(CWI/UvA))

Copromotor: Prof.dr. A.P. de Vries (TUD)

Promotie: 17 September 2009

2009-26

Fernando Koch (UU)

An Agent-Based Model for the Development of Intelligent Mobile Services

Promotores: Prof.dr. J.-J. Ch. Meyer (UU),

Prof.dr. E. Sonenberg (University of

Melbourne)

Copromotor: Dr. F. Dignum (UU)

Promotie: 05 October 2009

2009-27

Christian Glahn (OU)

Contextual Support of social Engagement and Reflection on the Web

Promotores: Prof.dr. E.J.R. Koper (OU),

Prof.dr. M. Specht (OU)

Promotie: 18 September 2009

2009-28

Sander Evers (UT)

Sensor Data Management with Probabilistic Models

Promotores: Prof.dr.ir. P.M.G. Apers (UT)

Copromotor: Prof.dr. L. Feng, Tsinghua

University (China).

Promotie: 25 September 2009

2009-29

Stanislav Pokraev (UT)

Model-Driven Semantic Integration of Service-Oriented Applications

Promotor: Prof.dr.ir. R. J. Wieringa (UT)

Co-promotor: Prof.dr. M. Reichert

(University of Ulm)

Assistent promotor: Dr.ir.m. W. A. Steen

(Novay) Promotie: 22 Oktober 2009

2009-30

Marcin Zukowski (CWI)

Balancing vectorized query execution with bandwidth-optimized storage

Promotor: Prof.dr. M.L. Kersten

(CWI/UvA)

Copromotor: Dr. P.A. Boncz (CWI)

Promotie: 11 September 2009

2009-31

Sofiya Katrenko (UVA)

A Closer Look at Learning Relations from Text

Promotor: Prof.dr. P.W. Adriaans (UVA)

Promotie: 10 September 2009

2009-32
Rik Farenhorst (VU) and Remco de Boer (VU)
Architectural Knowledge Management: Supporting Architects and Auditors
Promotor: Prof.dr. J.C. van Vliet (VU)
Copromotor: Dr. P. Lago (VU)
Promotie: 05 October 2009

2009-33
Khiet Truong (UT)
How Does Real Affect Affect Affect Recognition In Speech?
Promotor: Prof.dr. F.M.G. de Jong (UT), Prof.dr.ir. D.A. van Leeuwen (RU)
Promotie: 27 August 2009

2009-34
Inge van de Weerd (UU)
Advancing in Software Product Management: An Incremental Method Engineering Approach
Promotor: Prof.dr. S. Brinkkemper (UU)
Copromotor: Dr.ir. J. Versendaal (UU)
Promotie: 09 September 2009

2009-35
Wouter Koelewijn (UL)
Privacy en Politiegegevens; Over geautomatiseerde normatieve informatie-uitwisseling
Promotores: Prof.dr. H.J. van den Herik (UvT/UL), Prof.mr. A.H.J. Schmidt (UL)
Co-promotor: dr. L. Mommers (UL)
Promotie: 04 November 2009

2009-36
Marco Kalz (OU)
Placement Support for Learners in Learning Networks
Promotor: Prof.dr. E.J.R. Koper (OU)
Copromotor: Dr. J.M. van Bruggen (OU)
Promotie: 16 October 2009

2009-37
Hendrik Drachsler (OU)
Navigation Support for Learners in Informal Learning Networks
Promotores: Prof.dr. E.J.R. Koper (OU)
Co-promotor: Dr. H.G.K. Hummel (OU)
Promotie: 16 October 2009

2009-38
Riina Vuorikari (OU)
Tags and self-organisation: a metadata ecology for learning resources in a multilingual context
Promotor: Prof.dr. E.J.R. Koper (OU)
Promotie: 13 November 2009

2009-39
Christian Stahl (TUE, Humboldt-Universitaet zu Berlin)
Service Substitution -- A Behavioral Approach Based on Petri Nets
Promotores: Prof.dr. K. van Hee (TUE), Prof.dr. W. Reisig (Humboldt-Universitaet zu Berlin)
Co-promotor: Prof.dr. Karsten Wolf (Universitaet Rostock)
Promotie: 1 December 2009

2009-40
Stephan Raaijmakers (UvT)
Multinomial Language Learning: Investigations into the Geometry of Language
Promotores: Prof.dr. W. Daelemans (UvT), Prof.dr. A.P.J. van den Bosch (UvT)
Promotie: 1 December 2009

2009-41
Igor Berezhnny (UvT)
Digital Analysis of Paintings
Promotores: Prof.dr. E.O. Postma (UvT), Prof.dr. H.J. van den Herik (UvT)
Promotie: 7 December 2009

2009-42
Toine Bogers (UvT)
Recommender Systems for Social Bookmarking
Promotor: Prof.dr. A.P.J. van den Bosch (UvT)
Promotie: 8 December 2009

2009-43
Virginia Nunes Leal Franqueira (UT)
Finding Multi-step Attacks in Computer Networks using Heuristic Search and Mobile Ambients
Promotor: Prof.dr. R.J. Wieringa (UT)
Co-promotor: Dr. P. van Eck (UT)
Promotie: 13 November 2009

2009-44

Roberto Santana Tapia (UT)
*Assessing Business-IT Alignment in
Networked Organizations*
Promotor: Prof.dr. R.J. Wieringa (UT)
Promotie: 4 December 2009

2009-45

Jilles Vreeken (UU)
Making Pattern Mining Useful
Promotor: Prof.dr.A.P.J.M. Siebes (UU)
Promotie: 15 December 2009

2009-46

Loredana Afanasiev (UvA)
Querying XML: Benchmarks and Recursion
Promotor: Prof.dr. M. de Rijke (UvA)
Co-promotor: Dr. M.J. Marx (UvA)
Promotie: 18 December 2009

2008

2008-01

Katalin Boer-Sorbán (EUR)
*Agent-Based Simulation of Financial
Markets: A modular, continuous-time
approach*
Promotor: Prof.dr. A. de Bruin (EUR)
Copromotor: Dr.ir. U. Kaymak (EUR)
Promotie: 25 January 2008

2008-02

Alexei Sharpanskykh (VU)
*On Computer-Aided Methods for Modeling
and Analysis of Organizations*
Promotor: Prof.dr. J. Treur (VU)
Promotie: 10 January 2008

2008-03

Vera Hollink (UvA)
*Optimizing hierarchical menus: a usage-based
approach*
Promotor: Prof.dr. B.J. Wielinga (UvA)
Copromotor: Dr. M.W. van Someren
(UvA)
Promotie: 31 January 2008

2008-04

Ander de Keijzer (UT)
*Management of Uncertain Data - towards
unattended integration*
Promotor: Prof.dr. P.M.G. Apers (UT)
Copromotor: Dr.ir.m. van Keulen (UT)
Promotie: 01 februari 2008

2008-05

Bela Mutschler (UT)
*Modeling and simulating causal dependencies
on process-aware information systems from a
cost perspective*
Promotor: Prof.dr. R. J. Wieringa (UT)
Copromotor: Dr. M. U. Reichert (UT)
Promotie: 17 January 2008

2008-06

Arjen Hommersom (RUN)
*On the Application of Formal Methods to
Clinical Guidelines, an Artificial Intelligence
Perspective*
Promotor: Prof.dr.ir. Th.P. van der Weide
(RUN)
Co-promotor: dr. P.J.F. Lucas (RUN)
Promotie: 18 April 2008

2008-07

Peter van Rosmalen (OU)
*Supporting the tutor in the design and
support of adaptive e-learning*
Promotor: Prof.dr. E.J.R. Koper (OU)
Co-promotor: Prof.dr. P.B. Sloep (OU)
Promotie: 18 April 2008

2008-08

Janneke Bolt (UU)
*Bayesian Networks: Aspects of Approximate
Inference*
Promotor: Prof.dr.ir L.C. van der Gaag
(UU)
Promotie: 21 April 2008

2008-09

Christof van Nimwegen (UU)
*The paradox of the guided user: assistance
can be counter-effective*
Promotor: Prof.dr. L. van den Berg (UU)
Co-promotor: Dr. H. van Oostendorp
(UU)
Promotie: 31 March 2008

2008-10

Wouter Bosma (UT)
Discourse oriented summarization
Promotor: Prof.dr.ir. A. Nijholt (UT)
Co-promotor: Dr. M. Theune (UT)
Promotie: 27 March 2008

2008-11

Vera Kartseva (VU)
Designing Controls for Network Organizations: A Value-Based Approach
P Promotores: Prof.dr. Y.H. Tan (VU),
Prof.dr.ir R. Paans (VU)
Co-promotor: Dr. J. Gordijn (VU)
Promotie: 28 May 2008

2008-12

Jozsef Farkas (RUN)
A Semiotically Oriented Cognitive Model of Knowledge Representation
Promotor: Prof.dr.ir. T.P. van der Weide (RUN)
Co-promotor: Dr. J.J. Sarbo (RUN)
Promotie: 23 April 2008

2008-13

Caterina Carraciolo (UVA)
Topic Driven Access to Scientific Handbooks
Promotor: Prof.dr. M. de Rijke (UVA)
Co-promotor: Dr. J. Kircz (HvA)
Promotie: 25 April 2008

2008-14

Arthur van Bunningen (UT)
Context-Aware Querying; Better Answers with Less Effort
Promotores: Prof.dr.P.M.G. Apers (UT),
Prof.dr. L. Feng (Tsinghua University, China)
Co-promotor: Dr. M. Fokkinga (UT)
Promotie: 13 June 2008

2008-15

Martijn van Otterlo (UT)
The Logic of Adaptive Behavior: Knowledge Representation and Algorithms for the Markov Decision Process Framework in First-Order Domains.
Promotores: Prof.dr.ir A. Nijholt (UT),
Prof.dr. J.-J.Ch. Meyer (UU)
Co-promotor: Dr. M. Poel (UT)
Referent: Dr. M. Wiering (RUG)
Promotie: 30 May 2008

2008-16

Henriette van Vugt (VU)
Embodied agents from a user's perspective
Promotores: Prof.dr. J. Kleinnijenhuis (VU) Prof.dr. G.C. van der Veer (VU)
Co-promotores: Dr. J. Hoorn (VU), Dr. E.A. Konijn (VU)
Promotie: 25 June 2008

2008-17

Martin Op 't Land (TUD)
Applying Architecture and Ontology to the Splitting and Allying of Enterprises
Promotor: Prof.dr.ir. J.L.G. Dietz (TUD)
Promotie: 13 June 2008

2008-18

Guido de Croon (UM)
Adaptive Active Vision
Promotores: Prof.dr. E.O. Postma (UM),
Prof.dr. H.J. van den Herik (UM)
Promotie: 26 June 2008

2008-19

Henning Rode (UT)
From Document to Entity Retrieval: Improving Precision and Performance of Focused Text Search
Promotor: Prof.dr. P.M.G. Apers (UT)
Co-promotor: Dr. D. Hiemstra (UT)
Promotie: 27 June 2008

2008-20

Rex Arendsen (UVA)
Geen bericht, goed bericht. Een onderzoek naar de effecten van de introductie van elektronisch berichtenverkeer met de overheid op de administratieve lasten van bedrijven.
Promotor: prof.dr. T.M. van Engers (UvA)
Promotie: 07 October 2008

2008-21

Krisztian Balog (UVA)
People Search in the Enterprise
Promotor: Prof.dr. M. de Rijke (UVA)
Promotie: 30 September 2008

2008-22

Henk Koning (UU)
Communication of IT-Architecture
Promotores: Prof.dr. S. Brinkkemper (UU), Prof.dr. J.C. van Vliet (VU),
Co-promotor: Dr. R. Bos (UU)
Promotie: 24 September 2008

2008-23
Stefan Visscher (UU)
Bayesian network models for the management of ventilator-associated pneumonia
Promotor: Prof.dr. M.J.M Bonten (UU/UMCU)
Co-promotores: Dr. P. Lucas (RUN), Dr. C.A.M. Schurink (EUR)
Promotie: 30 September 2008

2008-24
Zharko Aleksovski (VU)
Using background knowledge in ontology matching
Promotor: Prof.dr. F. van Harmelen (VU)
Co-promotor: Dr. W. ten Kate (VU)
Promotie: 05 September 2008

2008-25
Geert Jonker (UU)
Efficient and Equitable Exchange in Air Traffic Management Plan Repair using Spender-signed Currency
Promotor: Prof.dr. J.- J. Ch. Meyer (UU)
Co-promotor: Dr. F. Dignum (UU)
Promotie: 06 October 2008

2008-26
Marijn Huijbregts (UT)
Segmentation, Diarization and Speech Transcription: Surprise Data Unraveled
Promotor: Prof.dr. F.M.G. de Jong (UT)
Co-promotor: dr. R.J.F. Ordelman (UT)
Promotie: 21 November 2008

2008-27
Hubert Vogten (OU)
Design and Implementation Strategies for IMS Learning Design
Promotor: Prof.dr. E.J.R. Koper (OU)
Co-promotor: Dr. J.M. van Bruggen (OU)
Promotie: 07 November 2008

2008-28
Ildiko Flesch (RUN)
On the Use of Independence Relations in Bayesian Networks
Promotor: Prof.dr.ir. Th.P. van der Weide (RUN)
Co-promotor: Dr. P.J.F. Lucas (RUN))
Promotie: 27 November 2008

2008-29
Dennis Reidsma (UT)
Annotations and Subjective Machines - Of Annotators, Embodied Agents, Users, and Other Humans
Promotor: Prof.dr.ir. A. Nijholt (UT)
Co-promotor: Dr.ir. H. J. A. op den Akker (UT)
Promotie: 09 October 2008

2008-30
Wouter van Atteveldt (VU)
Semantic Network Analysis: Techniques for Extracting, Representing and Querying Media Content
Promotor: Prof.dr. F. van Harmelen (VU), Prof.dr. J. Kleinnijenhuis (VU)
Co-promotor: Dr. S. Schlobach (VU)
Promotie: 11 November 2008

2008-31
Loes Braun (UM)
Pro-Active Medical Information Retrieval
Promotor: Prof.dr. H.J. van den Herik (UM), Prof.dr.ir. A. Hasman (UvA)
Co-promotor: Dr. F. Wiesman (UVA)
Promotie: 29 October 2008

2008-32
Trung H. Bui (UT)
Toward Affective Dialogue Management using Partially Observable Markov Decision Processes
Promotor: Prof.dr.ir. A. Nijholt (UT)
Co-promotor: Dr. J. Zwiers (UT)
Promotie: 09 October 2008

2008-33
Frank Terpstra (UVA)
Scientific Workflow Design; theoretical and practical issues
Promotor: Prof.dr. P.W. Adriaans (UVA)
Co-promotor: Dr. G.R. Meijer (UVA)
Promotie: 06 November 2008

2008-34
Jeroen de Knijf (UU)
Studies in Frequent Tree Mining
Promotor: Prof.dr. A.P.J.M. Siebes (UU)
Co-promotor: Dr. A.J. Feelders (UU)
Promotie: 19 November 2008

- 2008-35
Ben Torben Nielsen (UvT)
Dendritic morphologies: function shapes structure
Promotor: Prof. dr H.J. van den Herik (UvT), Prof.dr. E.O. Postma (UvT)
Co-promotor: Dr. K.P. Tuyls (TUE)
Promotie: 03 December 2008
- 2007
2007-01
Kees Leune (UvT)
Access Control and Service-Oriented Architectures
Promotor: Prof.dr.ir.m.P. Papazoglou (UvT)
Co-promotor: Dr. W-J. van den Heuvel (UvT)
Promotie: 28 February 2007
- 2007-02
Wouter Teepe (RUG)
Reconciling Information Exchange and Confidentiality: A Formal Approach
Promotor: Prof.dr. L.R.B. Schomaker (RUG)
Co-promotor: Dr. L.C. Verbrugge (RUG)
Promotie: 18 January 2007
- 2007-03
Peter Mika (VU)
Social Networks and the Semantic Web
Promotor: Prof.dr. J.M. Akkermans (VU), prof.dr. T. Elfring (VU)
Co-promotor: Dr. P. Groenewegen (VU)
Promotie: 05 February 2007
- 2007-04
Jurriaan van Diggelen (UU)
Achieving Semantic Interoperability in Multi-agent Systems: a dialogue-based approach
Promotor: Prof.dr. J.-J. Ch. Meyer (UU)
Co-promotors: Dr.ir. R.-J. Beun (UU), dr. F. P.M. Dignum (UU), dr. R.m. van Eijk (UU)
Promotie: 21 March 2007
- 2007-05
Bart Schermer (UL)
Software Agents, Surveillance, and the Right to Privacy: a Legislative Framework for Agent-enabled Surveillance
Promotor: Prof.dr. H.J. van den Herik (UM/UL)
Promotie: 09 May 2007
- 2007-06
Gilad Mishne (UVA)
Applied Text Analytics for Blogs
Promotor: Prof.dr. M. de Rijke (UVA)
Promotie: 27 April 2007
- 2007-07
Natasa Jovanovic' (UT)
To Whom It May Concern - Addressee Identification in Face-to-Face Meetings
Promotor: Prof.dr.ir. A. Nijholt (UT)
Co-promotor: Dr.ir. H.J.A. op den Akker (UT)
Promotie: 14 March 2007
- 2007-08
Mark Hoogendoorn (VU)
Modeling of Change in Multi-Agent Organizations
Promotors: Prof.dr. J. Treur (VU) , Prof.dr. C.M. Jonker (TUD)
Promotie: 18 June 2007
- 2007-09
David Mobach (VU)
Agent-Based Mediated Service Negotiation
Promotor: Prof.dr. F.M.T. Brazier (VU)
Co-promotor: Dr. B.J. Overeinder (VU)
Promotie: 21 May 2007
- 2007-10
Huib Aldewereld (UU)
Autonomy vs. Conformity: an Institutional Perspective on Norms and Protocols
Promotor: Prof.dr. J.-J. Ch. Meyer (UU)
Co-promotor: Dr. F.Dignum (UU)
Promotie: 04 Juni 2007

2007-11
Natalia Stash (TUE)
Incorporating Cognitive/Learning Styles in a General-Purpose Adaptive Hypermedia System
Promotores: Prof.dr. P.M.E. De Bra (TUE), Prof.dr. L. Hardman (CWI / TUE)
Co-promotor: Dr. A.I. Cristea (University of Warwick, UK)
Promotie: 02 July 2007

2007-12
Marcel van Gerven (RUN)
Bayesian Networks for Clinical Decision Support: A Rational Approach to Dynamic Decision-Making under Uncertainty
Promotor: Prof.dr.ir. Th.P. van der Weide (RUN)
Co-promotor: dr. P.J.F. Lucas (RUN)
Promotie: 05 September 2007

2007-13
Rutger Rienks (UT)
Meetings in Smart Environments; Implications of Progressing Technology
Promotor: Prof.dr.ir. A. Nijholt (UT)
Co-promotor: dr. D. Heylen (UT)
Promotie: 11 July 2007

2007-14
Niek Bergboer (UM)
Context-Based Image Analysis
Promotores: Prof.dr. H.J. van den Herik (UM), Prof.dr. E.O. Postma (UM)
Promotie: 10 Oktober 2007

2007-15
Joyca Lacroix (UM)
NIM: a Situated Computational Memory Model
Promotores: Prof.dr. J.M.J. Murre (UM/UvA), Prof.dr. E.O. Postma (UM), Prof.dr. H.J. van den Herik (UM)
Promotie: 20 September 2007

2007-16
Davide Grossi (UU)
Designing Invisible Handcuffs. Formal investigations in Institutions and Organizations for Multi-agent Systems
Promotor: Prof.dr. J.-J. Ch. Meyer (UU)
Co-promotor: Dr. F.Dignum (UU)
Promotie: 17 September 2007

2007-17
Theodore Charitos (UU)
Reasoning with Dynamic Networks in Practice
Promotor: Prof.dr.ir L.C. van der Gaag (UU)
Promotie: 17 September 2007

2007-18
Bart Orriens (UvT)
On the development an management of adaptive business collaborations
promotor: Prof.dr.ir.m.P. Papazoglou (UvT)
Co-promotor: Dr. J. Yang (UvT)
Promotie: 12 September 2007

2007-19
David Levy (UM)
Intimate relationships with artificial partners
Promotores: Prof.dr. M.J.H. Meijer (UM), Prof.dr. H.J. van den Herik (UM)
Promotie: 11 Oktober 2007

2007-20
Slinger Jansen (UU)
Customer Configuration Updating in a Software Supply Network
Promotores: Prof.dr. S. Brinkkemper (UU), Prof.dr. P. Klint (CWI)
Promotie: 08 Oktober 2007

2007-21
Karianne Vermaas (UU)
Fast diffusion and broadening use: A research on residential adoption and usage of broadband internet in the Netherlands between 2001 and 2005
Promotor: Prof.dr. S. Brinkkemper (UU)
Co-promotor: Dr. L. van de Wijngaert (UU)
Promotie: 26 November 2007

2007-22
Zlatko Zlatev (UT)
Goal-oriented design of value and process models from patterns
Promotor: Prof.dr. R.J. Wieringa (UT)
Promotie: 04 Oktober 2007

2007-23

Peter Barna (TUE)

Specification of Application Logic in Web Information Systems

Promotores: prof.dr. P. De Bra (TUE),
prof.dr G.-J. Houben (VUB/TUE)

Promotie: 30 Oktober 2007

2007-24

Georgina Ramírez Camps (CWI)

Structural Features in XML Retrieval

Promotor: Prof.dr. M.L. Kersten (CWI /
UVA)

Co-promotor: Dr. A.P. de Vries (CWI/
TUD)

Promotie: 02 November 2007

2007-25

Joost Schalken (VU)

Empirical Investigations in Software Process Improvement

Promotor: Prof.dr. J.C. van Vliet (VU),
Prof.dr. S. Brinkkemper (UU)

Promotie: 17 December 2007

2006

2006-01

Samuil Angelov (TUE)

Foundations of B2B Electronic Contracting

Promotores: Prof.dr.ir. P. W.P.J. Grefen
(TUE), Prof.dr.ir. J.A. La Poutré
(TUE/CWI)

Promotie: 02 February 2006

2006-02

Cristina Chisalita (VU)

Contextual issues in the design and use of information technology in organizations

Promotores: Prof.dr.G. van der Veer
(VU), prof.dr. J.C. van Vliet (VU)

Promotie: 14 March 2006

2006-03

Noor Christoph (UVA)

The role of metacognitive skills in learning to solve problems

Promotor: Prof.dr.B.J. Wielinga (UVA)

Co-promotor: Dr. J. Sandberg (UVA)

Promotie: 21 April 2006

2006-04

Marta Sabou (VU)

Building Web Service Ontologies

Promotores: prof.dr. F.A.H. van

Harmelen (VU), prof.dr. H.

Stuckenschmidt (University of

Mannheim, Germany)

Promotie: 27 April 2006

2006-05

Cees Pierik (UU)

Validation Techniques for Object-Oriented

Proof Outlines

Promotor: prof.dr. J.-J. Ch. Meyer (UU)

Co-promotor: dr. F.S. de Boer (UU/CWI)

Promotie: 03 May 2006

2006-06

Ziv Baida (VU)

Software-aided Service Bundling - Intelligent

Methods & Tools for Graphical Service

Modeling

Promotor: prof.dr. J.M. Akkermans (VU)

Co-promotor: dr. J. Gordijn (VU)

Promotie: 29 May 2006

2006-07

Marko Smiljanic (UT)

XML schema matching -- balancing efficiency and effectiveness by means of clustering

Promotor: Prof.dr. W. Jonker (UT and
Philips Research)

Co-promotor: dr. M. van Keulen (UT)

Promotie: 21 April 2006

2006-08

Eelco Herder (UT)

Forward, Back and Home Again - Analyzing

User Behavior on the Web

Promotor: Prof.dr.ir. A. Nijholt (UT)

Assistent-Promotor: Dr. E.M.A.G. van

Dijk (UT)

Promotie: 13 April 2006

2006-09

Mohamed Wahdan (UM)

Automatic Formulation of the Auditor's

Opinion

Promotores: Prof.dr. H.J. van den Herik

(UM), Prof. E.H.J. Vaassen (UM)

Co-promotores: Prof. H.F. Ali(Rutherford

University), Dr. P. Spronck (UM)

Promotie: 29 June 2006

2006-10
 Ronny Siebes (VU)
Semantic Routing in Peer-to-Peer Systems
 Promotor: Prof.dr. F.A.H. van Harmelen (VU)
 Promotie: 09 June 2006

2006-11
 Joeri van Ruth (UT)
Flattening Queries over Nested Data Types
 Promotor: Prof.dr. P.M.G. Apers (UT)
 Promotie: 02 June 2006

2006-12
 Bert Bongers (VU)
Interactivation - Towards an e-cology of people, our technological environment, and the arts
 Promotores: Prof.dr. G. C. van der Veer (VU), Prof.dr. J. C. van Vliet (VU)
 Promotie: 04 July 2006

2006-13
 Henk-Jan Lebbink (UU)
Dialogue and Decision Games for Information Exchanging Agents
 Promotores: Prof.dr. J.-J. Ch. Meyer (UU), Prof.dr. C.L.M. Witteman (RUN)
 Promotie: 18 September 2006

2006-14
 Johan Hoorn (VU)
Software Requirements: Update, Upgrade, Redesign - towards a Theory of Requirements Change
 Promotores: Prof.dr. G. C. van der Veer (VU), Prof.dr. J. C. van Vliet (VU)
 Promotie: 09 October 2006

2006-15
 Rainer Malik (UU)
CONAN: Text Mining in the Biomedical Domain
 Promotor: Prof.dr. A.P.J.M. Siebes (UU)
 Promotie: 11 October 2006

2006-16
 Carsten Riggelsen (UU)
Approximation Methods for Efficient Learning of Bayesian Networks
 Promotor: Prof.dr. A.P.J.M. Siebes (UU)
 Co-promotor: dr. A.J. Feelders (UU)
 Promotie: 23 October 2006

2006-17
 Stacey Nagata (UU)
User Assistance for Multitasking with Interruptions on a Mobile Device
 Promotor: Prof.dr. J. van den Berg (UU), Prof.dr. M. Neerincx (TUD)
 Co-promotor: dr. H. van Oostendorp (UU)
 Promotie: 12 October 2006

2006-18
 Valentin Zhizhkun (UVA)
Graph transformation for Natural Language Processing
 Promotor: Prof.dr. M. de Rijke (UVA)
 Promotie: 28 November 2006

2006-19
 Birna van Riemsdijk (UU)
Cognitive Agent Programming: A Semantic Approach
 Promotor: Prof.dr. J.-J. Ch. Meyer (UU)
 Co-promotores: dr. F.S. de Boer (CWI / LIACS / UU), dr. M. Dastani (UU)
 Promotie: 25 October 2006

2006-20
 Marina Velikova (UvT)
Monotone models for prediction in data mining
 Promotores: Prof.dr.ir. H.A.M. Daniels (UvT / EUR), Prof.dr. J.P.C. Kleijnen (UvT)
 Co-promotores: dr. A.J. Feelders (UU)
 Promotie: 13 November 2006

2006-21
 Bas van Gils (RUN)
Aptness on the Web
 Promotores: Prof.dr. H.A. Proper (RUN), Prof.dr.ir. Th.P. van der Weide (RUN)
 Promotie: 08 December 2006

2006-22
 Paul de Vrieze (RUN)
Fundamentals of Adaptive Personalisation
 Promotor: Prof.dr.ir. Th.P. van der Weide (RUN)
 Co-promotores: dr. P. van Bommel (RUN)
 Promotie: 13 December 2006

2006-23

Ion Juvina (UU)

Development of Cognitive Model for Navigating on the Web

Promotor: Prof.dr. J. van den Berg (UU)

Co-promotores: dr. H. van Oostendorp (UU)

Promotie: 19 October 2006

2006-24

Laura Hollink (VU)

Semantic Annotation for Retrieval of Visual Resources

Promotores: prof dr. A.Th. Schreiber

(VU), prof dr. B.J. Wielinga (UVA)

Co-promotor: dr. M. Worring (UVA)

Promotie: 16 November 2006

2006-25

Madalina Drugan (UU)

Conditional log-likelihood MDL and Evolutionary MCMC

Promotor: Prof.dr.ir. L. C. van der Gaag (UU)

Co-promotor: dr.ir. D. Thierens (UU)

Promotie: 27 November 2006

2006-26

Vojkan Mihajlovic (UT)

Score Region Algebra: A Flexible Framework for Structured Information Retrieval

Promotor: Prof.dr. P.M.G. Apers (UT)

Co-promotor: Dr. D. Hiemstra (UT)

Promotie: 07 December 2006

2006-27

Stefano Bocconi (CWI)

Vox Populi: generating video documentaries from semantically annotated media repositories

Promotor: Prof.dr. L. Hardman (CWI/TUE)

Co-promotor: dr. F. Nack (CWI)

Promotie: 30 November 2006

2006-28

Borkur Sigurbjornsson (UVA)

Focused Information Access using XML Element Retrieval

Promotor: Prof.dr. M. de Rijke (UVA)

Co-promotor: dr.ir. J. Kamps (UVA)

Promotie: 14 December 2006

2005

2005-01

Floor Verdenius (UVA)

Methodological Aspects of Designing Induction-Based Applications

Promotor: Prof.dr. B.J. Wielinga (UVA)

Copromotor: dr. M.W. van Someren (UVA)

Promotie: 28 January 2005

2005-02

Erik van der Werf (UM)

AI techniques for the game of Go

Promotor: prof.dr. H.J. van den Herik (UM)

Co-promotor: dr. J.W.H.M. Uiterwijk (UM)

Promotie: 27 January 2005

2005-03

Franc Grootjen (RUN)

A Pragmatic Approach to the Conceptualisation of Language

Promotores: prof.dr.ir. Th. P. van der Weide (RUN), prof. C.H.A. Koster (RUN)

Promotie: 26 January 2005

2005-04

>Nirvana Meratnia (UT)

Towards Database Support for Moving Object data

Promotores: prof.dr. P.M.G. Apers (UT)

Copromotor: Dr.ir. R. A. de By (ITC)

Promotie: 23 February 2005

2005-05

Gabriel Infante-Lopez (UVA)

Two-Level Probabilistic Grammars for Natural Language Parsing

Promotores: prof.dr. M. de Rijke (UVA), prof.dr. R. Scha (UVA)

Promotie: 06 April 2005

2005-06

Pieter Spronck (UM)

Adaptive Game AI

Promotores: prof.dr. H.J. van den Herik

(UM), prof.dr. E.O. Postma (UM)

Promotie: 20 May 2005

2005-07

Flavius Frasincar (TUE)

Hypermedia Presentation Generation for Semantic Web Information Systems

Promotores: Prof.dr. P. De Bra (TUE)

Prof.dr.ir. G-J. Houben (VUB/TUE)

Co-promotor: Prof.dr. J. Paredaens (TUE/UA)

Promotie: 20 June 2005

2005-08

Richard Vdovjak (TUE)

A Model-driven Approach for Building Distributed Ontology-based Web Applications

Promotores: Prof.dr. P. De Bra (TUE)

Prof.dr.ir. G-J. Houben (VUB/TUE)

Co-promotor: Prof.dr. J. Paredaens (TUE/UA)

Promotie: 20 June 2005

2005-09

Jeen Broekstra (VU)

Storage, Querying and Inferencing for Semantic Web Languages

Promotor: Prof.dr. F. van Harmelen (VU)

Promotie: 04 July 2005

2005-10

Anders Bouwer (UVA)

Explaining Behaviour: Using Qualitative Simulation in Interactive Learning Environments

Promotores: Prof.dr. B. J. Wielinga

(UVA), Prof.dr. J. A. P. J. Breuker (UVA)

Co-promotor: Dr. B. Bredeweg (UvA)

Promotie: 06 July 2005

2005-11

Elth Ogston (VU)

Agent Based Matchmaking and Clustering - A Decentralized Approach to Search

Promotores: prof.dr. F.M.T. Brazier (VU),

prof.dr.ir.m.R. van Steen (VU)

Promotie: 05 April 2005

2005-12

Csaba Boer (EUR)

Distributed Simulation in Industry

Promotor: prof.dr. A. de Bruin (EUR)

Prof.dr.ir. A. Verbraeck (Delft

University/University of Maryland)

Promotie: 21 Oktober 2005

2005-13

Fred Hamburg (UL)

Een Computermodel voor het Ondersteunen van Euthanasiebeslissingen

Promotores: prof.dr. H.J.van den Herik

(UM/UL), prof.dr.H.M.Dupuis (UL),

prof.Dr.E.O.Postma (UM)

Promotie: 24 November 2005

2005-14

Borys Omelayenko (VU)

Web-Service configuration on the Semantic Web; Exploring how semantics meets pragmatics

Promotores: prof dr. A.Th. Schreiber

(VU), prof dr. J.M. Akkermans (VU)

Promotie: 12 October 2005

2005-15

Tibor Bosse (VU)

Analysis of the Dynamics of Cognitive Processes

Promotores: Prof.dr. J. Treur (VU) ,

Prof.dr. C.M. Jonker (RUN)

Promotie: 23 November 2005

2005-16

Joris Graaumans (UU)

Usability of XML Query Languages

Promotor: Prof.dr.ir. G.J. van der Steen (UU)

Co-promotor: dr. H. van Oostendorp (UU)

Promotie: 17 October 2005

2005-17

Boris Shishkov (TUD)

Software Specification Based on Re-usable Business Components

Promotor: prof.dr.ir. J.L.G. Dietz (TUD)

Promotie: 26 September 2005

2005-18

Danielle Sent (UU)

Test-selection strategies for probabilistic networks

Promotor: Prof.dr.ir L. C. van der Gaag (UU)

Promotie: 17 October 2005

2005-19

Michel van Dartel (UM)

Situated Representation

Promotores: prof.dr. E.O. Postma (UM),
prof.dr. H.J. van den Herik (UM)

Promotie: 1 December 2005

2005-20

Cristina Coteanu (UL)

Cyber Consumer Law, State of the Art and Perspectives

Promotores: prof.dr. H.J. van den Herik (UM),
prof.dr. G. Howells (Sheffield)

Promotie: 20 December 2005

2005-21

Wijnand Derks (UT)

Improving Concurrency and Recovery in Database Systems by Exploiting Application Semantics

Promotor: Prof.dr. W. Jonker (UT)

Promotie: 16 November 2005

2004

2004-01

Virginia Dignum (UU)

A Model for Organizational Interaction: Based on Agents, Founded in Logic

Promoteres: prof.dr. J.-J. Ch. Meyer (UU)

Co-promotor: dr. F. Dignum (UU), dr.

H.Weigand (UvT)

Promotie: 12 January 2004

2004-02

Lai Xu (UvT)

Monitoring Multi-party Contracts for E-business

Promotor: Prof.dr.ir.m.P. Papazoglou (UvT)

Co-promotor: dr.rer.nat. M.A. Jeusfeld (UvT)

Promotie: 20 February 2004

2004-03

Perry Groot (VU)

A Theoretical and Empirical Analysis of Approximation in Symbolic Problem Solving

Promotor: prof.dr. F.A.H. van Harmelen (VU)

Co-promotor: dr. A.C.M. ten Teije (VU)

Promotie: 23 March 2004

2004-04

Chris van Aart (UVA)

Organizational Principles for Multi-Agent Architectures

Promotores: prof.dr. B.J. Wielinga (UvA),
prof.dr.A.Th.Schreiber (VU)

Promotie: 06 April 2004

2004-05

Viara Popova (EUR)

Knowledge discovery and monotonicity

Promotor: prof.dr. A. de Bruin (EUR)

Co-promotor: dr. J.C. Bioch (EUR)

Promotie: 01 April 2004

2004-06

Bart-Jan Hommes (TUD)

The Evaluation of Business Process Modeling Techniques

Promotor: prof.dr.ir. J.L.G. Dietz (TUD)

Promotie: 26 January 2004

2004-07

Elise Boltjes (UM)

Voorbeeldig onderwijs; voorbeeldgestuurd onderwijs, een opstap naar abstract denken, vooral voor meisjes

Promotores: Prof.dr. M.J.H. Meijer (UM),

Prof.dr. H.J. van den Herik (UM)

Promotie: 13 May 2004

2004-08

Joop Verbeek (UM)

Politie en de Nieuwe Internationale Informatiemarkt, Grensregionale politieke gegevensuitwisseling en digitale expertise

Promotores: Prof.dr. H.J. van den Herik (UM),
Prof.mr. Th.A. de Roos (UL)

Promotie: 14 Oktober 2004

2004-09

Martin Caminada (VU)

For the Sake of the Argument; explorations into argument-based reasoning

Promotor: Prof.dr. R.P. van de Riet (VU)

Co-promotor: dr.mr. H. Prakken (UU)

Promotie: 22 June 2004

2004-10

Suzanne Kabel (UVA)

Knowledge-rich indexing of learning-objects

Promotores: Prof.dr. R. de Hoog (UVA)

Prof.dr. B.J. Wielinga (UVA)

Promotie: 20 October 2004

2004-11

Michel Klein (VU)

Change Management for Distributed Ontologies

Promotores: prof dr. A.Th. Schreiber (VU), prof dr. J.M. Akkermans (VU)

Promotie: 14 September 2004

2004-12

The Duy Bui (UT)

Creating emotions and facial expressions for embodied agents

Promotor: Prof.dr.ir. A. Nijholt (UT)

Co-promotor: dr. D.K.J. Heylen (UT)

Promotie: 1 July 2004

2004-13

Wojciech Jamroga (UT)

Using Multiple Models of Reality: On Agents who Know how to Play

Promotores: Prof.dr.ir. A. Nijholt (UT),

Prof.dr. W. van der Hoek (University of Liverpool)

Co-promotor: dr. J. Zwiers (UT)

Promotie: 1 July 2004

2004-14

Paul Harrenstein (UU)

Logic in Conflict. Logical Explorations in Strategic Equilibrium

Promotores: Prof.dr. J.-J. Ch. Meyer (UU),

Prof.dr. W. van der Hoek (University of Liverpool)

Co-promotor: dr. C. Witteveen (TUD)

Promotie: 6 September 2004

2004-15

Arno Knobbe (UU)

Multi-Relational Data Mining

Promotor: Prof.dr. A.P.J.M. Siebes (UU)

Promotie: 22 November 2004

2004-16

Federico Divina (VU)

Hybrid Genetic Relational Search for Inductive Learning

Promotor: Prof.dr. A.E. Eiben (VU)

Co-promotor: dr. E. Marchiori (VU)

Promotie: 26 October 2004

2004-17

Mark Winands (UM)

Informed Search in Complex Games

Promotor: prof.dr. H.J. van den Herik (UM)

Co-promotor: dr. J.W.H.M. Uiterwijk (UM)

Promotie: 1 December 2004

2004-18

Vania Bessa Machado (UvA)

Supporting the Construction of Qualitative Knowledge Models

Promotor: Prof.dr. B.J. Wielinga (UvA)

Co-promotor: Dr. B. Bredeweg (UvA)

Promotie: 29 November 2004

2004-19

Thijs Westerveld (UT)

Using generative probabilistic models for multimedia retrieval

Promotor: Prof.dr. F.M.G. de Jong (UT)

Co-promotor: Dr. A.P. de Vries (CWI)

Promotie: 25 November 2004

2004-20

Madelon Evers (Nyenrode)

Learning from Design: facilitating multidisciplinary design teams

Promotores: Prof dr W. Baets (Nyenrode),

Prof.dr. G. van der Veer (VU)

Co-promotor: dr. Th. Homan (Nyenrode)

Promotie: 10 December 2004

2003

2003-01

Heiner Stuckenschmidt (VU)

Ontology-Based Information Sharing in Weakly Structured Environments

Promotores: prof.dr. F.A.H. van Harmelen (VU)

Co-Promotor: prof.dr. O. Herzog, (Universitaet Bremen)

Promotie: 23 January 2003

2003-02

Jan Broersen (VU)

Modal Action Logics for Reasoning About Reactive Systems

Promotores: prof.dr. J.-J. Ch. Meyer (UU),

prof.dr. R.J. Wieringa (UT), prof.dr. R.P.

van de Riet (VU)

Promotie: 25 February 2003

2003-03
Martijn Schuemie (TUD)
*Human-Computer Interaction and Presence
in Virtual Reality Exposure Therapy*
Promotor: Prof.dr.ir.F.W.Jansen
Co-promotor: Dr.ir.C.A.P.G.van der Mast
(TUD)
Promotie: 3 maart 2003

2003-04
Milan Petkovic (UT)
*Content-Based Video Retrieval Supported by
Database Technology*
Promotor: Prof.Dr. Willem Jonker (UT)
Promotie: 28 February 2003

2003-05
Jos Lehmann (UVA)
*Causation in Artificial Intelligence and Law -
A modelling approach*
Promotores: Prof.dr. J.A.P.G. Breuker
(UvA), Prof.mr. P.W. Brouwer (UvA)
Promotie: 11 March 2003

2003-06
Boris van Schooten (UT)
*Development and specification of virtual
environments*
Promotores: Prof.dr.ir. A. Nijholt
Co-promotor: Dr. E.M.A.G. van Dijk
Promotie: 17 April 2003

2003-07
Machiel Jansen (UvA)
*Formal Explorations of Knowledge Intensive
Tasks*
Promotores: Prof.dr. B.J. Wielinga (UVA)
Co-promotor: Dr. A. Th. Schreiber (UvA).
Promotie: 5 June 2003

2003-08
Yongping Ran (UM)
Repair Based Scheduling
Promotores: Prof.dr. H.J. van den Herik
(UM)
Co-promotor: Dr.ir. N. Roos (UM)
Promotie: 18 June 2003

2003-09
Rens Kortmann (UM)
The resolution of visually guided behaviour
Promotores: Prof.dr. H.J. van den Herik
(UM), Prof.dr. E.O.Postma (UM)
Promotie: 4 July 2003

2003-10
Andreas Lincke (UvT)
*Electronic Business Negotiation: Some
experimental studies on the interaction
between medium, innovation context and
culture*
Promotores: Prof.dr. P. Ribbers (UvT),
Prof.dr. J. Ulijn (TUE)
Co-promotor: Dr.H.Weigand (UvT)
Promotie: 17 September 2003

2003-11
Simon Keizer (UT)
*Reasoning under Uncertainty in Natural
Language Dialogue using Bayesian Networks*
Promotor: Prof.dr.ir A. Nijholt (UT)
Promotie: 03 September 2003

2003-12
Roeland Ordelman (UT)
*Dutch speech recognition in multimedia
information retrieval*
Promotor: Prof.dr. F.M.G. de Jong (UT)
Promotie: 10 October 2003

2003-13
Jeroen Donkers (UM)
*Nosce Hostem - Searching with Opponent
Models*
Promotor: prof.dr. H.J. van den Herik
(UM)
Copromotor: dr. J.W.H.M. Uiterwijk
(UM)
Promotie: 05 December 2003

2003-14
Stijn Hoppenbrouwers (KUN)
*Freezing Language: Conceptualisation
Processes across ICT-Supported
Organisations*
Promotores: prof.dr. H.A. Proper (KUN),
prof.dr. M.P. Papazoglou (UvT)
Copromotor: dr. H. Weigand (UvT)
Promotie: 10 December 2003

2003-15
Mathijs de Weerd (TUD)
Plan Merging in Multi-Agent Systems
Promotores: Prof.dr.ir. H.J. Sips (TUD),
Prof.dr. J-J.Ch. Meyer, (UU)
Co-promotor: Dr. C. Witteveen (TUD)
Promotie: 15 December 2003

2003-16

Menzo Windhouwer (CWI)
*Feature Grammar Systems - Incremental
Maintenance of Indexes to Digital Media
Warehouses*
Promotor: Prof.dr. M.Kersten
(UVA/CWI)
Promotie: 06 November 2003

2003-17

David Jansen (UT)
*Extensions of Statecharts with Probability,
Time, and Stochastic Timing*
Promotor: Prof.dr. R.J. Wieringa (UT)
Assistent-promotor: dr. J-P Katoen (UT)
Promotie: 29 Oktober 2003

2003-18

Levente Kocsis (UM)
Learning Search Decisions
Promotor: prof.dr. H.J. van den Herik
(UM)
Copromotor: dr. J.W.H.M. Uiterwijk
(UM)
Promotie: 11 December 2003

2002

2002-01

Nico Lassing (VU)
Architecture-Level Modifiability Analysis
Promotores: prof.dr. J.C. van Vliet (VU)
prof.dr. D.B.B. Rijsenbrij (VU)
Promotie: 12 februari 2002

2002-02

Roelof van Zwol (UT)
*Modelling and searching web-based document
collections*
Promotor: Prof.dr. P.M.G. Apers (UT)
Promotie: 26 april 2002

2002-03

Henk Ernst Blok (UT)
*Database Optimization Aspects for
Information Retrieval*
promotor: Prof.dr. P.M.G. Apers (UT)
co-promotor: Dr. H.M. Blanken (UT)
Promotie: 12 april 2002

2002-04

Juan Roberto Castelo Valdueza (UU)
*The Discrete Acyclic Digraph Markov Model
in Data Mining*
promotor: Prof.dr. A Siebes (UU)
Promotie: 3 june 2002

2002-05

Radu Serban (VU)
*The Private Cyberspace Modeling Electronic
Environments inhabited by Privacy-
concerned Agents*
promotor: Prof.dr. R.P.van de Riet
Promotie: 5 november 2002

2002-06

Laurens Mommers (UL)
*Applied legal epistemology; Building a
knowledge-based ontology of the legal domain*
promotor: Prof.dr. H.J. van den Herik
(UL / UM)
Promotie: 20 June 2002

2002-07

Peter Boncz (CWI)
*Monet: A Next-Generation DBMS Kernel
For Query-Intensive Applications*
promotor: prof.dr. M.L. Kersten
(CWI/UVA))
Promotie: 31 May 2002

2002-08

Jaap Gordijn (VU)
*Value Based Requirements Engineering:
Exploring Innovative E-Commerce Ideas*
promotor: prof.dr. J.M.Akkermans(VU))
Promotie: 25 June 2002

2002-09

Willem-Jan van den Heuvel(KUB)
*Integrating Modern Business Applications
with Objectified Legacy Systems*
promotores: Prof.dr.ir.m.P. Papazoglou
(KUB), Prof.dr. P. Ribbers (KUB)
Promotie: 14 juni 2002

2002-10

Brian Sheppard (UM)
Towards Perfect Play of Scrabble
promotores: Prof.dr. H.J. van den Herik
(UM), Prof.dr. J. Schaeffer (University of
Alberta)
Promotie: 5 July 2002

2002-11
Wouter C.A. Wijngaards (VU)
Agent Based Modelling of Dynamics: Biological and Organisational Applications
promotor Prof.dr. J. Treur
co-promotor Dr. C.M. Jonker
Promotie: 14 oktober 2002

2002-12
Albrecht Schmidt (Uva)
Processing XML in Database Systems
promotor: prof.dr. M.L. Kersten (Uva/CWI)
Promotie: 7 november 2002

2002-13
Hongjing Wu (TUE)
A Reference Architecture for Adaptive Hypermedia Applications
promotores: Prof.dr.ir. P. De Bra (TUE), Prof.dr.ir. L. Hardman (CWI/TUE)
Promotie: 8 november 2002

2002-14
Wieke de Vries (UU)
Agent Interaction: Abstract Approaches to Modelling, Programming and Verifying Multi-Agent Systems
promotores: Prof.dr. J.-J. Meyer (UU), Prof.dr. J. Treur ((VU)
co-promotores: dr.F.S. de Boer, dr. W. van der Hoek (UU), dr. C.M. Jonker (VU)
Promotie: 11 November 2002

2002-15
Rik Eshuis (UT)
Semantics and Verification of UML Activity Diagrams for Workflow Modelling
promotor: Prof.dr. R.J. Wieringa (UT)
Promotie: 25 October 2002

2002-16
Pieter van Langen (VU)
The Anatomy of Design: Foundations, Models and Applications
promotores: prof.dr. F.M.T. Brazier, prof.dr. J. Treur
Promotie: 22 November 2002

2002-17
Stefan Manegold (UVA)
Understanding, Modeling, and Improving Main-Memory Database Performance
promotor: prof.dr. M. Kersten (UVA/CWI)
Promotie: 17 December 2002

2001
2001-1
Silja Renooij (UU)
Qualitative Approaches to Quantifying Probabilistic Networks
Promotores: prof.dr. J.-J.Ch. Meyer (UU) prof.dr.ir. L.C. van der Gaag (UU)
Co-promotor: dr. C.L.M Witteman (UU)
Promotie: 12 maart 2001

2001-2
Koen Hindriks (UU)
Agent Programming Languages: Programming with Mental Models
Promotor: prof.dr. J.-J.Ch. Meyer (UU)
Co-Promotoren: dr. W. van der Hoek (UU) dr. F.S. de Boer (UU)
Promotie: 5 februari 2001

2001-3
Maarten van Someren (UvA)
Learning as problem solving
Promotor: prof.dr. B.J. Wielinga (UvA)
Promotie: 1 maart 2001

2001-4
Evgueni Smirnov (UM)
Conjunctive and Disjunctive Version Spaces with Instance-Based Boundary Sets
Promotor: Prof.dr. H.J. van den Herik (UM/RUL)
Promotie: 22 februari 2001

2001-5
Jacco van Ossenbruggen (VU)
Processing Structured Hypermedia: A Matter of Style
Promotor: prof.dr. J.C. van Vliet (VU)
Promotie: 10 april 2001

2001-6
Martijn van Welie (VU)
Task-based User Interface Design
Promotor: prof.dr. J.C. van Vliet (VU)
Co-promotoren: dr. G.C. van der Veer (VU) dr. A. Eliens (VU)
Promotie: 17 april 2001

2001-7
Bastiaan Schonhage (VU)
Diva: Architectural Perspectives on Information Visualization
Promotor: prof.dr. J.C. van Vliet (VU)
Co-promotor: dr. A. Eliens (VU)
Promotie: 8 mei 2001

2001-8
Pascal van Eck (VU)
A Compositional Semantic Structure for Multi-Agent Systems Dynamics.
Promotoren: prof.dr. F.M.T. Brazier (VU) prof.dr. J. Treur (VU)
Promotie: 12 juni 2001

2001-9
Pieter Jan 't Hoen (RUL)
Towards Distributed Development of Large Object-Oriented Models, Views of Packages as Classes
Promotor: prof.dr. G. G. Engels
Co-promotoren: dr. L.P.J. Groenewegen dr. P.W.M. Koopman
Promotie: 25 oktober 2001

2001-10
Maarten Sierhuis (UvA)
Modeling and Simulating Work Practice BRAHMS: a multiagent modeling and simulation language for work practice analysis and design
Promotoren: Prof.dr. R. de Hoog (UvA) Prof.dr. B. Wielinga (UvA)
Co-promotor: Dr. W.J. Clancey (IHMC/NASA Ames Research Center)
Promotie: 28 september 2001

2001-11
Tom M. van Engers (VUA)
Knowledge Management: The Role of Mental Models in Business Systems Design
Promotor: Prof.dr. J.M. Akkermans (VUA)
Co-promotor: Dr. G.C. van der Veer (VUA)
Promotie: 11 december 2001

2000
2000-1
Frank Niessink (VU)
Perspectives on Improving Software Maintenance
Promotor: prof.dr. J.C. van Vliet (VU)
Promotie: 28 maart 2000

2000-2
Koen Holtman (TUE)
Prototyping of CMS Storage Management
Promotoren: prof.dr. P.M.E. De Bra prof.dr. R.H. McClatchey
Co-promotor: dr. P.D.V. van der Stok
Promotie: 29 mei 2000

2000-3
Carolien M.T. Metselaar (UVA)
Sociaal-organisatorische gevolgen van kennistechnologie; een procesbenadering en actorperspectief.
Promotor: Prof.dr. B.J. Wielinga
Co-promotor: Dr. P.A.A. van den Besselaar
Promotie: 20 juni 2000

2000-4
Geert de Haan (VU)
ETAG, A Formal Model of Competence Knowledge for User Interface Design
Promotor: Prof.dr. J.C. van Vliet
Co-promotoren: Dr. G.C. van der Veer Dr. M.J. Tauber
Promotie: 10 oktober 2000

2000-5
Ruud van der Pol (UM)
Knowledge-based Query Formulation in Information Retrieval.
Promotoren: Prof.dr. H.J. van den Herik (UM/RUL) Prof.dr.ir. J.L.G. Dietz (TUD) Prof.dr.ir. A. Hasman (UM)
Promotie: 14 september 2000

2000-6
Rogier van Eijk (UU)
Programming Languages for Agent Communication
Promotor: prof.dr. John-Jules Ch. Meyer
Co-promotoren: Dr. Frank S. de Boer Dr. Wiebe van der Hoek
Promotie: 18 oktober 2000

2000-7
 Niels Peek (UU)
Decision-theoretic Planning of Clinical Patient Management
 Promotor: prof.dr. J.-J. Ch. Meyer
 Co-promotor: Dr.P.J.F.Lucas
 Promotie: 30 oktober 2000

2000-8
 Veerle Coupé (EUR)
Sensitivity Analysis of Decision-Theoretic Networks
 Promotores: prof.dr.J.D.F. Habbema
 prof.dr.ir.L.C van der Gaag
 Promotie: 27 september 2000

2000-9
 Florian Waas (CWI)
Principles of Probabilistic Query Optimization
 Promotor: prof.dr. M.L. Kersten
 (CWI/UvA)
 Promotie: 03 november 2000

2000-10
 Niels Nes (CWI)
Image Database Management System Design Considerations, Algorithms and Architecture
 Promotor: prof.dr. M.L. Kersten
 (CWI/UvA)
 Promotie: 14 december 2000

2000-11
 Jonas Karlsson (CWI)
Scalable Distributed Data Structures for Database Management
 Promotor: prof.dr. M.L. Kersten
 (CWI/UvA)
 Promotie: 14 december 2000

1999

99-1
 Mark Sloof (VU)
Physiology of Quality Change Modelling; Automated modelling of Quality Change of Agricultural Products
 Promotor: prof.dr. J. Treur
 Co-promotor: Dr.ir.m. Willems
 Promotie: 11 mei 1999

99-2
 Rob Potharst (EUR)
Classification using decision trees and neural nets
 Promotor: prof.dr. A. de Bruin
 Co-promotor: Dr. J.C. Bioch
 Promotie: 4 juni 1999

99-3
 Don Beal (UM)
The Nature of Minimax Search
 Promotor: Prof.dr. H.J.van den Herik
 Promotie: 11 juni 1999

99-4
 Jacques Penders (UM)
The practical Art of Moving Physical Objects
 Promotor: Prof.dr. H.J. van den Herik
 Co-promotor: Dr. P.J. Braspenning
 Promotie: 11 juni 1999

99-5
 Aldo de Moor (KUB)
Empowering Communities: A Method for the Legitimate User-Driven Specification of Network Information Systems
 Promotor: Prof.Dr. R.A. Meersman
 Co-promotor: Dr. H. Weigand
 Promotie: 1 oktober 1999

99-6
 Niek J.E. Wijngaards (VU)
Re-design of compositional systems
 Promotor: prof.dr. J. Treur
 Co-promotor: Dr. F.M.T. Brazier
 Promotie: 30 september 1999

99-7
 David Spelt (UT)
Verification support for object database design
 Promotor: Prof.dr. P.M.G. Apers
 Assistent promotor: Dr. H. Balsters
 Promotie: 10 september 1999

99-8
 Jacques H.J. Lenting (UM)
Informed Gambling: Conception and Analysis of a Multi-Agent Mechanism for Discrete Reallocation.
 Promotor: Prof.dr. H.J. van den Herik
 Co-promotor: Dr. P.J. Braspenning
 Promotie: 3 december 1999

1998

98-1

Johan van den Akker (CWI)
DEGAS - An Active, Temporal Database of Autonomous Objects
promotor: Prof.dr. M.L. Kersten
(CWI/UvA)
co-promotor: dr. A.P.J.M. Siebes (CWI)
Promotie: 30 maart 1998

98-2

Floris Wiesman (UM)
Information Retrieval by Graphically Browsing Meta-Information
promotores: Prof.dr.ir. A. Hasman (UM)
Prof.dr. H.J. van den Herik (UM/RUL)
Prof.dr.ir. J.L.G. Dietz (TUD)
Promotie: 7 mei 1998

98-3

Ans Steuten (TUD)
A Contribution to the Linguistic Analysis of Business Conversations within the Language/Action Perspective
promotores: Prof.dr.ir. J.L.G. Dietz (TUD)
prof.dr. P.C. Hengeveld (UvA)
Promotie: 22 juni 1998

98-4

Dennis Breuker (UM)
Memory versus Search in Games
promotor: Prof.dr. H.J. van den Herik
(UM/RUL)
Promotie: 16 oktober 1998

98-5

E.W. Oskamp (RUL)
Computerondersteuning bij Straftoemeting
Promotores: Prof.mr. H. Franken Prof.dr.
H.J. van den Herik
Promotie: 13 mei 1998

