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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.

Operator	CSL	Hutchinson	SmarTone	PCCW	New World	Peoples
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

1 See operator declared compliance status at http://www.ofta.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 3GMobile 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.hkcs.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.

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

Figure C2: Convergence at different levels²²

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- 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.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).

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 aligned (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

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- 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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Olga Kulyk (UT) <i>Do You Know What I Know? Situational Awareness of Co-located Teams in Multidisplay Environments</i> Promotor: Prof.dr.ir. A. Nijholt (UT), Prof.dr. G.C. van der Veer (OU) Copromotor: Dr. E. M. A. G. van Dijk (UT) Promotie: 14 January 2010	Hugo Kielman (UL) <i>Politieke gegevensverwerking en Privacy, Naar een effectieve waarborging</i> 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
2010-05	2010-10
Claudia Hauff (UT) <i>Predicting the Effectiveness of Queries and Retrieval Systems</i> Promotor: Prof.dr. F.M.G. de Jong (UT) Copromotor: Dr.ir. D. Hiemstra (UT) Promotie: 29 January 2010	Rebecca Ong (UL) <i>Mobile Communication and the Protection of Children</i> 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) <i>The world according to MARP: Multi-Agent Route Planning</i> Promotor: Prof.dr. C. Witteveen (TUD) Copromotor: Dr.ir. F. A. Kuipers (TUD) Promotie: 15 March 2010

2010-12	2009
Susan van den Braak (UU) <i>Sensemaking software for crime analysis</i> 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	Rasa Jurgelenaite (RUN) <i>Symmetric Causal Independence Models</i> Promotor: Prof.dr. T.M. Heskes (RUN) Promotie: 19 January 2009
2010-13	2009-02
Gianluigi Folino (RUN) <i>High Performance Data Mining using Bio-inspired techniques</i> Promotor: Prof.dr. T.M. Heskes (RUN) Copromotor: Dr. E. Marchiori (RUN) Promotie: 22 March 2010	Willem Robert van Hage (VU) <i>Evaluating Ontology-Alignment Techniques</i> Promotor: Prof.dr. G. Schreiber (VU) Promotie: 19 January 2009
2010-14	2009-03
Sander van Splunter (VU) <i>Automated Web Service Reconfiguration</i> Promotor: Prof.dr. F. M.T. Brazier (TUD) Copromotor: Dr. P.H.G. van Langen (TUD) Promotie: 29 March 2010	Hans Stol (UvT) <i>A Framework for Evidence-based Policy Making Using IT</i> Promotor: Prof.dr. H.J. Van den Herik (UvT) Promotie: 21 January 2009
2010-15	2009-04
Lianne Bodenstaff (UT) <i>Managing Dependency Relations in Inter-Organizational Models</i> Promotor: Prof.dr. R.J. Wieringa (UT), Prof.dr. M. Reichert (University of Ulm) Promotie: 17 June 2010	Josephine Nabukenya (RUN) <i>Improving the Quality of Organisational Policy Making using Collaboration Engineering</i> 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
2010-16	2009-05
Sicco Verwer (TUD) <i>Efficient Identification of Timed Automata, theory and practice</i> Promotor: Prof.dr. C. Witteveen (TUD) Copromotor: Dr. M. de Weerdt (TUD) Promotie: 02 March 2010	Sietse Overbeek (RUN) <i>Bridging Supply and Demand for Knowledge Intensive Tasks - Based on Knowledge, Cognition, and Quality</i> Promotor: Prof.dr. E. Proper (RUN) Promotie: 24 April 2009
2010-17	2009-06
Spyros Kotoulas (VU) <i>Scalable Discovery of Networked Resources: Algorithms, Infrastructure, Applications</i> Promotor: Prof.dr. F. van Harmelen (VU) Copromotor: Dr. R. Siebes (VU) Promotie: 24 March 2010	Muhammad Subianto (UU) <i>Understanding Classification</i> Promotor: Prof.dr.A.P.J.M. Siebes (UU) Promotie: 14 January 2009
	2009-07
	Ronald Poppe (UT) <i>Discriminative Vision-Based Recovery and Recognition of Human Motion</i> Promotor: Prof.dr.ir. A. Nijholt (UT) Copromotor: Dr. M. Poel (UT) Promotie: 02 April 2009

2009-08	Volker Nannen (VU) <i>Evolutionary Agent-Based Policy Analysis in Dynamic Environments</i> Promotores: Prof.dr. J. van den Bergh (VU), Prof.dr. A.E. Eiben (VU) Promotie: 16 April 2009	Maksym Korotkiy (VU) <i>From ontology-enabled services to service-enabled ontologies (making ontologies work in e-science with ONTO-SOA)</i> Promotores: Prof.dr. J. Top (VU) Promotie: 18 june 2009
2009-09	Benjamin Kanagwa (RUN) <i>Design, Discovery and Construction of Service-oriented Systems</i> Promotor: Prof.dr.ir. Th. van der Weide (RUN) Promotie: 21 April 2009	Rinke Hoekstra (UVA) <i>Ontology Representation - Design Patterns and Ontologies that Make Sense</i> 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
2009-10	Jan Wielemaker (UVA) <i>Logic programming for knowledge-intensive interactive applications</i> Promotores: Prof.dr. B.J. Wielinga (UvA), Prof.dr. A.Th. Schreiber (VU) Promotie: 12 Juni 2009	Fritz Reul (UvT) <i>New Architectures in Computer Chess</i> Promotor: Prof.dr. H.J. van den Herik (UvT) Copromotor: Dr. J.W.H.M. Uiterwijk (UM) Promotie: 17 june 2009
2009-11	Alexander Boer (UVA) <i>Legal Theory, Sources of Law & the Semantic Web</i> 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	Laurens van der Maaten (UvT) <i>Feature Extraction from Visual Data</i> 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
2009-12	Peter Massuthe (TUE, Humboldt-Universitaet zu Berlin) <i>Operating Guidelines for Services</i> 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	Fabian Groffen (CWI) <i>Armada, An Evolving Database System</i> Promotor: Prof.dr. M.L. Kersten (CWI/UvA) Copromotor: Dr. S. Manegold (CWI) Promotie: 10 june 2009
2009-13	Steven de Jong (UM) <i>Fairness in Multi-Agent Systems</i> Promotor: Prof.dr. H.J. van den Herik (UvT), Prof.dr. E.O. Postma (UvT) Copromotor: Dr. K. Tuyls (TUE) Promotie: 04 June 2009	Valentin Robu (CWI) <i>Modeling Preferences, Strategic Reasoning and Collaboration in Agent-Mediated Electronic Markets</i> Promotor: Prof.dr. H. La Poutré (CWI/TUE) Promotie: 02 July 2009

2009-20	Bob van der Vecht (UU) <i>Adjustable Autonomy: Controlling Influences on Decision Making</i> Promotor: Prof.dr. J.-J. Ch. Meyer (UU) Copromotor: Dr. F.Dignum (UU) Promotie: 06 July 2009	2009-26 Fernando Koch (UU) <i>An Agent-Based Model for the Development of Intelligent Mobile Services</i> Promotores: Prof.dr. J.-J. Ch. Meyer (UU), Prof.dr. E. Sonenberg (University of Melbourne) Copromotor: Dr. F. Dignum (UU) Promotie: 05 October 2009
2009-21	Stijn Vanderlooy(UM) <i>Ranking and Reliable Classification</i> 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	2009-27 Christian Glahn (OU) <i>Contextual Support of social Engagement and Reflection on the Web</i> Promotores: Prof.dr. E.J.R. Koper (OU), Prof.dr. M. Specht (OU) Promotie: 18 September 2009
2009-22	Pavel Serdyukov (UT) <i>Search For Expertise: Going beyond direct evidence</i> Promotor: Prof.dr. P.M.G. Apers (UT) Copromotor: Dr. D. Hiemstra (UT) Promotie: 24 June 2009	2009-28 Sander Evers (UT) <i>Sensor Data Management with Probabilistic Models</i> Promotores: Prof.dr.ir. P.M.G. Apers (UT) Copromotor: Prof.dr. L. Feng, Tsinghua University (China). Promotie: 25 September 2009
2009-23	Peter Hofgesang (VU) <i>Modelling Web Usage in a Changing Environment</i> Promotor: Prof.dr. A.E. Eiben (VU) Copromotor: Dr. W. Kowalczyk (VU) Promotie: 08 October 2009	2009-29 Stanislav Pokraev (UT) <i>Model-Driven Semantic Integration of Service-Oriented Applications</i> Promotor: Prof.dr.ir. R. J. Wieringa (UT) Co-promotor: Prof.dr. M. Reichert (University of Ulm) Assistant promotor: Dr.ir.m. W. A. Steen (Novay) Promotie: 22 Oktober 2009
2009-24	Annerieke Heuvelink (VU) <i>Cognitive Models for Training Simulations</i> Promotor: Prof.dr. J. Treur (VU) Copromotor: Dr. K. van den Bosch (TNO), Dr. M. C. A. Klein (VU) Promotie: 11 September 2009	2009-30 Marcin Zukowski (CWI) <i>Balancing vectorized query execution with bandwidth-optimized storage</i> Promotor: Prof.dr. M.L. Kersten (CWI/UvA) Copromotor: Dr. P.A. Boncz (CWI) Promotie: 11 September 2009
2009-25	Alex van Ballegooij (CWI) <i>"RAM: Array Database Management through Relational Mapping"</i> Promotor: Prof.dr. M.L. Kersten (CWI/UvA)) Copromotor: Prof.dr. A.P. de Vries (TUD) Promotie: 17 September 2009	2009-31 Sofiya Katrenko (UVA) <i>A Closer Look at Learning Relations from Text</i> Promotor: Prof.dr. P.W. Adriaans (UVA) Promotie: 10 September 2009

2009-32	Rik Farenhorst (VU) and Remco de Boer (VU) <i>Architectural Knowledge Management: Supporting Architects and Auditors</i> Promotor: Prof.dr. J.C. van Vliet (VU) Copromotor: Dr. P. Lago (VU) Promotie: 05 October 2009	Riina Vuorikari (OU) <i>Tags and self-organisation: a metadata ecology for learning resources in a multilingual context</i> Promotor: Prof.dr. E.J.R. Koper (OU) Promotie: 13 November 2009
2009-33	Khiet Truong (UT) <i>How Does Real Affect Affect Affect Recognition In Speech?</i> Promotor: Prof.dr. F.M.G. de Jong (UT), Prof.dr.ir. D.A. van Leeuwen (RU) Promotie: 27 August 2009	Christian Stahl (TUE, Humboldt-Universitaet zu Berlin) <i>Service Substitution -- A Behavioral Approach Based on Petri Nets</i> 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
2009-34	Inge van de Weerd (UU) <i>Advancing in Software Product Management: An Incremental Method Engineering Approach</i> Promotor: Prof.dr. S. Brinkkemper (UU) Copromotor: Dr.ir. J. Versendaal (UU) Promotie: 09 September 2009	Stephan Raaijmakers (UvT) <i>Multinomial Language Learning: Investigations into the Geometry of Language</i> Promotores: Prof.dr. W. Daelemans (UvT), Prof.dr. A.P.J. van den Bosch (UvT) Promotie: 1 December 2009
2009-35	Wouter Koelewijn (UL) <i>Privacy en Politiegegevens; Over geautomatiseerde normatieve informatie-uitwisseling</i> 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	Igor Berezhnyy (UvT) <i>Digital Analysis of Paintings</i> Promotores: Prof.dr. E.O. Postma (UvT), Prof.dr. H.J. van den Herik (UvT) Promotie: 7 December 2009
2009-36	Marco Kalz (OU) <i>Placement Support for Learners in Learning Networks</i> Promotor: Prof.dr. E.J.R. Koper (OU) Copromotor: Dr. J.M. van Bruggen (OU) Promotie: 16 October 2009	Toine Bogers (UvT) <i>Recommender Systems for Social Bookmarking</i> Promotor: Prof.dr. A.P.J. van den Bosch (UvT) Promotie: 8 December 2009
2009-37	Hendrik Drachsler (OU) <i>Navigation Support for Learners in Informal Learning Networks</i> Promotores: Prof.dr. E.J.R. Koper (OU) Co-promotor: Dr. H.G.K. Hummel (OU) Promotie: 16 October 2009	Virginia Nunes Leal Franqueira (UT) <i>Finding Multi-step Attacks in Computer Networks using Heuristic Search and Mobile Ambients</i> Promotor: Prof.dr. R.J. Wieringa (UT) Co-promotor: Dr. P. van Eck (UT) Promotie: 13 November 2009

2009-44		2008-05
Roberto Santana Tapia (UT)	Bela Mutschler (UT)	
<i>Assessing Business-IT Alignment in Networked Organizations</i>	<i>Modeling and simulating causal dependencies on process-aware information systems from a cost perspective</i>	
Promotor: Prof.dr. R.J. Wieringa (UT)	Promotor: Prof.dr. R. J. Wieringa (UT)	
Promotie: 4 December 2009	Copromotor: Dr. M. U. Reichert (UT)	
	Promotie: 17 January 2008	
2009-45		2008-06
Jilles Vreeken (UU)	Arjen Hommersom (RUN)	
<i>Making Pattern Mining Useful</i>	<i>On the Application of Formal Methods to Clinical Guidelines, an Artificial Intelligence Perspective</i>	
Promotor: Prof.dr.A.P.J.M. Siebes (UU)	Promotor: Prof.dr.ir. Th.P. van der Weide (RUN)	
Promotie: 15 December 2009	Co-promotor: dr. P.J.F. Lucas (RUN)	
	Promotie: 18 April 2008	
2009-46		2008-07
Loredana Afanasiev (UvA)	Peter van Rosmalen (OU)	
<i>Querying XML: Benchmarks and Recursion</i>	<i>Supporting the tutor in the design and support of adaptive e-learning</i>	
Promotor: Prof.dr. M. de Rijke (UvA)	Promotor: Prof.dr. E.J.R. Koper (OU)	
Co-promotor: Dr. M.J. Marx (UvA)	Co-promotor: Prof.dr. P.B. Sloep (OU)	
Promotie: 18 December 2009	Promotie: 18 April 2008	
2008		2008-08
2008-01		
Katalin Boer-Sorbán (EUR)	Janneke Bolt (UU)	
<i>Agent-Based Simulation of Financial Markets: A modular, continuous-time approach</i>	<i>Bayesian Networks: Aspects of Approximate Inference</i>	
Promotor: Prof.dr. A. de Bruin (EUR)	Promotor: Prof.dr.ir L.C. van der Gaag (UU)	
Copromotor: Dr.ir. U. Kaymak (EUR)	Promotie: 21 April 2008	
Promotie: 25 January 2008		2008-09
2008-02		
Alexei Sharpanskykh (VU)	Christof van Nimwegen (UU)	
<i>On Computer-Aided Methods for Modeling and Analysis of Organizations</i>	<i>The paradox of the guided user: assistance can be counter-effective</i>	
Promotor: Prof.dr. J. Treur (VU)	Promotor: Prof.dr. L. van den Berg (UU)	
Promotie: 10 January 2008	Co-promotor: Dr. H. van Oostendorp (UU)	
	Promotie: 31 March 2008	
2008-03		2008-10
Vera Hollink (UVA)	Wouter Bosma (UT)	
<i>Optimizing hierarchical menus: a usage-based approach</i>	<i>Discourse oriented summarization</i>	
Promotor: Prof.dr. B.J. Wielinga (UvA)	Promotor: Prof.dr.ir. A. Nijholt (UT)	
Copromotor: Dr. M.W. van Someren (UvA)	Co-promotor: Dr. M. Theune (UT)	
Promotie: 31 January 2008	Promotie: 27 March 2008	
2008-04		
Ander de Keijzer (UT)		
<i>Management of Uncertain Data - towards unattended integration</i>		
Promotor: Prof.dr. P.M.G. Apers (UT)		
Copromotor: Dr.ir.m. van Keulen (UT)		
Promotie: 01 februari 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	Dennis Reidsma (UT) <i>Annotations and Subjective Machines - Of Annotators, Embodied Agents, Users, and Other Humans</i> Promotor: Prof.dr.ir. A. Nijholt (UT) Co-promotor: Dr.ir. H. J. A. op den Akker (UT) Promotie: 09 October 2008
2008-24	Zharko Aleksovski (VU) <i>Using background knowledge in ontology matching</i> Promotor: Prof.dr. F. van Harmelen (VU) Co-promotor: Dr. W. ten Kate (VU) Promotie: 05 September 2008
2008-25	Geert Jonker (UU) <i>Efficient and Equitable Exchange in Air Traffic Management Plan Repair using Spender-signed Currency</i> Promotor: Prof.dr. J.- J. Ch. Meyer (UU) Co-promotor: Dr. F. Dignum (UU) Promotie: 06 October 2008
2008-26	Marijn Huijbregts (UT) <i>Segmentation, Diarization and Speech Transcription: Surprise Data Unraveled</i> 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) <i>Design and Implementation Strategies for IMS Learning Design</i> 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) <i>On the Use of Independence Relations in Bayesian Networks</i> Promotor: Prof.dr.ir. Th.P. van der Weide (RUN) Co-promotor: Dr. P.J.F. Lucas (RUN)) Promotie: 27 November 2008
2008-29	Wouter van Atteveldt (VU) <i>Semantic Network Analysis: Techniques for Extracting, Representing and Querying Media Content</i> Promotor: Prof.dr. F. van Harmelen (VU), Prof.dr. J. Kleinnijenhuis (VU) Co-promotor: Dr. S. Schlobach (VU) Promotie: 11 November 2008
2008-30	Loes Braun (UM) <i>Pro-Active Medical Information Retrieval</i> 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) <i>Toward Affective Dialogue Management using Partially Observable Markov Decision Processes</i> Promotor: Prof.dr.ir. A. Nijholt (UT) Co-promotor: Dr. J. Zwiers (UT) Promotie: 09 October 2008
2008-33	Frank Terpstra (UVA) <i>Scientific Workflow Design; theoretical and practical issues</i> Promotor: Prof.dr. P.W. Adriaans (UVA) Co-promotor: Dr. G.R. meijer (UVA) Promotie: 06 November 2008
2008-34	Jeroen de Knijf (UU) <i>Studies in Frequent Tree Mining</i> Promotor: Prof.dr. A.P.J.M. Siebes (UU) Co-promotor: Dr. A.J. Feelders (UU) Promotie: 19 November 2008

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

2007-11	Theodore Charitos (UU) <i>Reasoning with Dynamic Networks in Practice</i> Promotor: Prof.dr.ir L.C. van der Gaag (UU) Promotie: 17 September 2007
2007-12	Bart Orriens (UvT) <i>On the development and management of adaptive business collaborations</i> promotor: Prof.dr.ir.m.P. Papazoglou (UvT) Co-promotor: Dr. J. Yang (UvT) Promotie: 12 September 2007
2007-13	David Levy (UM) <i>Intimate relationships with artificial partners</i> Promotores: Prof.dr. M.J.H. Meijer (UM), Prof.dr. H.J. van den Herik (UM) Promotie: 11 Oktober 2007
2007-14	Slinger Jansen (UU) <i>Customer Configuration Updating in a Software Supply Network</i> Promotores: Prof.dr. S. Brinkkemper (UU), Prof.dr. P. Klint (CWI) Promotie: 08 Oktober 2007
2007-15	Karianne Vermaas (UU) <i>Fast diffusion and broadening use: A research on residential adoption and usage of broadband internet in the Netherlands between 2001 and 2005</i> Promotor: Prof.dr. S. Brinkkemper (UU) Co-promotor: Dr. L. van de Wijngaert (UU) Promotie: 26 November 2007
2007-16	Zlatko Zlatev (UT) <i>Goal-oriented design of value and process models from patterns</i> Promotor: Prof.dr. R.J. Wieringa (UT) Promotie: 04 Oktober 2007

2007-23	2006-04
Peter Barna (TUE) <i>Specification of Application Logic in Web Information Systems</i> Promotores: prof.dr. P. De Bra (TUE), prof.dr G.-J. Houben (VUB/TUE) Promotie: 30 Oktober 2007	Marta Sabou (VU) <i>Building Web Service Ontologies</i> Promotores: prof.dr. F.A.H. van Harmelen (VU), prof.dr. H. Stuckenschmidt (University of Mannheim, Germany) Promotie: 27 April 2006
2007-24	2006-05
Georgina Ramírez Camps (CWI) <i>Structural Features in XML Retrieval</i> Promotor: Prof.dr. M.L. Kersten (CWI / UVA) Co-promotor: Dr. A.P. de Vries (CWI/ TUD) Promotie: 02 November 2007	Cees Pierik (UU) <i>Validation Techniques for Object-Oriented Proof Outlines</i> Promotor: prof.dr. J.-J. Ch. Meyer (UU) Co-promotor: dr. F.S. de Boer (UU/CWI) Promotie: 03 May 2006
2007-25	2006-06
Joost Schalken (VU) <i>Empirical Investigations in Software Process Improvement</i> Promotor: Prof.dr. J.C. van Vliet (VU), Prof.dr. S. Brinkkemper (UU) Promotie: 17 December 2007	Ziv Baida (VU) <i>Software-aided Service Bundling - Intelligent Methods & Tools for Graphical Service Modeling</i> Promotor: prof.dr. J.M. Akkermans (VU) Co-promotor: dr. J. Gordijn (VU) Promotie: 29 May 2006
2006	2006-07
2006-01	Marko Smiljanic (UT) <i>XML schema matching -- balancing efficiency and effectiveness by means of clustering</i> Promotor: Prof.dr. W. Jonker (UT and Philips Research) Co-promotor: dr. M. van Keulen (UT) Promotie: 21 April 2006
2006-02	2006-08
Cristina Chisalita (VU) <i>Contextual issues in the design and use of information technology in organizations</i> Promotores: Prof.dr.G. van der Veer (VU), prof.dr. J.C. van Vliet (VU) Promotie: 14 March 2006	Eelco Herder (UT) <i>Forward, Back and Home Again - Analyzing User Behavior on the Web</i> Promotor: Prof.dr.ir. A. Nijholt (UT) Assistant-Promotor: Dr. E.M.A.G. van Dijk (UT) Promotie: 13 April 2006
2006-03	2006-09
Noor Christoph (UVA) <i>The role of metacognitive skills in learning to solve problems</i> Promotor: Prof.dr.B.J. Wielinga (UVA) Co-promotor: Dr. J. Sandberg (UVA) Promotie: 21 April 2006	Mohamed Wahdan (UM) <i>Automatic Formulation of the Auditor's Opinion</i> 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	2006-17
Ronny Siebes (VU) <i>Semantic Routing in Peer-to-Peer Systems</i> Promotor: Prof.dr. F.A.H. van Harmelen (VU) Promotie: 09 June 2006	Stacey Nagata (UU) <i>User Assistance for Multitasking with Interruptions on a Mobile Device</i> Promotor: Prof.dr. J. van den Berg (UU), Prof.dr. M. Neerincx (TUD) Co-promotor: dr. H. van Oostendorp (UU) Promotie: 12 October 2006
2006-11	2006-18
Joeri van Ruth (UT) <i>Flattening Queries over Nested Data Types</i> Promotor: Prof.dr. P.M.G. Apers (UT) Promotie: 02 June 2006	Valentin Zhizhun (UVA) <i>Graph transformation for Natural Language Processing</i> Promotor: Prof.dr. M. de Rijke (UVA) Promotie: 28 November 2006
2006-12	2006-19
Bert Bongers (VU) <i>Interaction - Towards an e-ecology of people, our technological environment, and the arts</i> Promotores: Prof.dr. G. C. van der Veer (VU), Prof.dr. J. C. van Vliet (VU) Promotie: 04 July 2006	Birna van Riemsdijk (UU) <i>Cognitive Agent Programming: A Semantic Approach</i> 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
2006-13	2006-20
Henk-Jan Lebbink (UU) <i>Dialogue and Decision Games for Information Exchanging Agents</i> Promotores: Prof.dr. J.-J. Ch. Meyer (UU), Prof.dr. C.L.M. Witteman (RUN) Promotie: 18 September 2006	Marina Velikova (UvT) <i>Monotone models for prediction in data mining</i> 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
2006-14	2006-21
Johan Hoorn (VU) <i>Software Requirements: Update, Upgrade, Redesign - towards a Theory of Requirements Change</i> Promotores: Prof.dr. G. C. van der Veer (VU), Prof.dr. J. C. van Vliet (VU) Promotie: 09 October 2006	Bas van Gils (RUN) <i>Aptness on the Web</i> Promotores: Prof.dr. H.A. Proper (RUN), Prof.dr.ir. Th.P. van der Weide (RUN) Promotie: 08 December 2006
2006-15	2006-22
Rainer Malik (UU) <i>CONAN: Text Mining in the Biomedical Domain</i> Promotor: Prof.dr. A.P.J.M. Siebes (UU) Promotie: 11 October 2006	Paul de Vrieze (RUN) <i>Fundaments of Adaptive Personalisation</i> Promotor: Prof.dr.ir. Th.P. van der Weide (RUN) Co-promotores: dr. P. van Bommel (RUN) Promotie: 13 December 2006
2006-16	
Carsten Riggelsen (UU) <i>Approximation Methods for Efficient Learning of Bayesian Networks</i> Promotor: Prof.dr. A.P.J.M. Siebes (UU) Co-promotor: dr. A.J. Feelders (UU) Promotie: 23 October 2006	

2006-23	2005-01
Ion Juvina (UU) <i>Development of Cognitive Model for Navigating on the Web</i> Promotor: Prof.dr. J. van den Berg (UU) Co-promotores: dr. H. van Oostendorp (UU) Promotie: 19 October 2006	Floor Verdenius (UVA) <i>Methodological Aspects of Designing Induction-Based Applications</i> Promotor: Prof.dr. B.J. Wielinga (UVA) Copromotor: dr. M.W. van Someren (UVA) Promotie: 28 January 2005
2006-24	2005-02
Laura Hollink (VU) <i>Semantic Annotation for Retrieval of Visual Resources</i> Promotores: prof dr. A.Th. Schreiber (VU), prof dr. B.J. Wielinga (UVA) Co-promotor: dr. M. Worring (UVA) Promotie: 16 November 2006	Erik van der Werf (UM) <i>AI techniques for the game of Go</i> Promotor: prof.dr. H.J. van den Herik (UM) Co-promotor: dr. J.W.H.M. Uiterwijk (UM) Promotie: 27 January 2005
2006-25	2005-03
Madalina Drugan (UU) <i>Conditional log-likelihood MDL and Evolutionary MCMC</i> Promotor: Prof.dr.ir. L. C. van der Gaag (UU) Co-promotor: dr.ir. D. Thierens (UU) Promotie: 27 November 2006	Franc Grootjen (RUN) <i>A Pragmatic Approach to the Conceptualisation of Language</i> Promotores: prof.dr.ir. Th. P. van der Weide (RUN), prof. C.H.A. Koster (RUN) Promotie: 26 January 2005
2006-26	2005-04
Vojkan Mihajlovic (UT) <i>Score Region Algebra: A Flexible Framework for Structured Information Retrieval</i> Promotor: Prof.dr. P.M.G. Apers (UT) Co-promotor: Dr. D. Hiemstra (UT) Promotie: 07 December 2006	>Nirvana Meratnia (UT) <i>Towards Database Support for Moving Object data</i> Promotores: prof.dr. P.M.G. Apers (UT) Copromotor: Dr.ir. R. A. de By (ITC) Promotie: 23 February 2005
2006-27	2005-05
Stefano Bocconi (CWI) <i>Vox Populi: generating video documentaries from semantically annotated media repositories</i> Promotor: Prof.dr. L. Hardman (CWI/TUE) Co-promotor: dr. F. Nack (CWI) Promotie: 30 November 2006	Gabriel Infante-Lopez (UVA) <i>Two-Level Probabilistic Grammars for Natural Language Parsing</i> Promotores: prof.dr. M. de Rijke (UVA), prof.dr. R. Scha (UVA) Promotie: 06 April 2005
2006-28	2005-06
Borkur Sigurbjornsson (UVA) <i>Focused Information Access using XML Element Retrieval</i> Promotor: Prof.dr. M. de Rijke (UVA) Co-promotor: dr.ir. J. Kamps (UVA) Promotie: 14 December 2006	Pieter Spronck (UM) <i>Adaptive Game AI</i> Promotores: prof.dr. H.J. van den Herik (UM), prof.dr. E.O. Postma (UM) Promotie: 20 May 2005
2005	

2005-07	Flavius Frasincar (TUE) <i>Hypermedia Presentation Generation for Semantic Web Information Systems</i> 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	2005-13 Fred Hamburg (UL) <i>Een Computermodel voor het Ondersteunen van Euthanasiebeslissingen</i> 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
2005-08	Richard Vdovjak (TUE) <i>A Model-driven Approach for Building Distributed Ontology-based Web Applications</i> 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	2005-14 Borys Omelayenko (VU) <i>Web-Service configuration on the Semantic Web; Exploring how semantics meets pragmatics</i> Promotores: prof dr. A.Th. Schreiber (VU), prof dr. J.M. Akkermans (VU) Promotie: 12 October 2005
2005-09	Jeen Broekstra (VU) <i>Storage, Querying and Inferencing for Semantic Web Languages</i> Promotor: Prof.dr. F. van Harmelen (VU) Promotie: 04 July 2005	2005-15 Tibor Bosse (VU) <i>Analysis of the Dynamics of Cognitive Processes</i> Promotores: Prof.dr. J. Treur (VU) , Prof.dr. C.M. Jonker (RUN) Promotie: 23 November 2005
2005-10	Anders Bouwer (UVA) <i>Explaining Behaviour: Using Qualitative Simulation in Interactive Learning Environments</i> 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	2005-16 Joris Graaumans (UU) <i>Usability of XML Query Languages</i> Promotor: Prof.dr.ir. G.J. van der Steen (UU) Co-promotor: dr. H. van Oostendorp (UU) Promotie: 17 October 2005
2005-11	Elth Ogston (VU) <i>Agent Based Matchmaking and Clustering - A Decentralized Approach to Search</i> Promotores: prof.dr. F.M.T. Brazier (VU), prof.dr.ir.m.R. van Steen (VU) Promotie: 05 April 2005	2005-17 Boris Shishkov (TUD) <i>Software Specification Based on Re-usable Business Components</i> Promotor: prof.dr.ir. J.L.G. Dietz (TUD) Promotie: 26 September 2005
2005-12	Csaba Boer (EUR) <i>Distributed Simulation in Industry</i> Promotor: prof.dr. A. de Bruin (EUR) Prof.dr.ir. A. Verbraeck (Delft University/University of Maryland) Promotie: 21 Oktober 2005	2005-18 Danielle Sent (UU) <i>Test-selection strategies for probabilistic networks</i> Promotor: Prof.dr.ir L. C. van der Gaag (UU) Promotie: 17 October 2005

2005-19	2004-04
Michel van Dardel (UM) <i>Situated Representation</i> Promotores: prof.dr. E.O. Postma (UM), prof.dr. H.J. van den Herik (UM) Promotie: 1 December 2005	Chris van Aart (UVA) <i>Organizational Principles for Multi-Agent Architectures</i> Promotores: prof.dr. B.J. Wielinga (UvA), prof.dr.A.Th.Schreiber (VU) Promotie: 06 April 2004
2005-20	2004-05
Cristina Coteanu (UL) <i>Cyber Consumer Law, State of the Art and Perspectives</i> Promotores: prof.dr. H.J. van den Herik (UM), prof.dr. G. Howells (Sheffield) Promotie: 20 December 2005	Viara Popova (EUR) <i>Knowledge discovery and monotonicity</i> Promotor: prof.dr. A. de Bruin (EUR) Co-promotor: dr. J.C. Bioch (EUR) Promotie: 01 April 2004
2005-21	2004-06
Wijnand Derkx (UT) <i>Improving Concurrency and Recovery in Database Systems by Exploiting Application Semantics</i> Promotor: Prof.dr. W. Jonker (UT) Promotie: 16 November 2005	Bart-Jan Hommes (TUD) <i>The Evaluation of Business Process Modeling Techniques</i> Promotor: prof.dr.ir. J.L.G. Dietz (TUD) Promotie: 26 January 2004
2004	2004-07
2004-01	Elise Boltjes (UM) <i>Voorbeeldig onderwijs; voorbeeldgestuurd onderwijs, een opstap naar abstract denken, vooral voor meisjes</i> Promotores: Prof.dr. M.J.H. Meijer (UM), Prof.dr. H.J. van den Herik (UM) Promotie: 13 May 2004
Virginia Dignum (UU) <i>A Model for Organizational Interaction: Based on Agents, Founded in Logic</i> Promoteres: prof.dr. J.-J. Ch. Meyer (UU) Co-promotor: dr. F. Dignum (UU), dr. H.Weigand (UvT) Promotie: 12 January 2004	2004-08
2004-02	Joop Verbeek (UM) <i>Politie en de Nieuwe Internationale Informatiemarkt, Grensregionale politiële gegevensuitwisseling en digitale expertise</i> Promotores: Prof.dr. H.J. van den Herik (UM), Prof.mr. Th.A. de Roos (UL) Promotie: 14 Oktober 2004
Lai Xu (UvT) <i>Monitoring Multi-party Contracts for E-business</i> Promotor: Prof.dr.ir.m.P. Papazoglou (UvT) Co-promotor: dr.rer.nat. M.A. Jeusfeld (UvT) Promotie: 20 February 2004	2004-09
2004-03	Martin Caminada (VU) <i>For the Sake of the Argument; explorations into argument-based reasoning</i> Promotor: Prof.dr. R.P. van de Riet (VU) Co-promotor: dr.mr. H. Prakken (UU) Promotie: 22 June 2004
Perry Groot (VU) <i>A Theoretical and Empirical Analysis of Approximation in Symbolic Problem Solving</i> Promotor: prof.dr. F.A.H. van Harmelen (VU) Co-promotor: dr. A.C.M. ten Teije (VU) Promotie: 23 March 2004	2004-10
	Suzanne Kabel (UVA) <i>Knowledge-rich indexing of learning-objects</i> Promotores: Prof.dr. R. de Hoog (UVA) Prof.dr. B.J Wielinga (UVA) Promotie: 20 October 2004

2004-11	Michel Klein (VU) <i>Change Management for Distributed Ontologies</i> Promotores: prof dr. A.Th. Schreiber (VU), prof dr. J.M. Akkermans (VU) Promotie: 14 September 2004	2004-17	Mark Winands (UM) <i>Informed Search in Complex Games</i> Promotor: prof.dr. H.J. van den Herik (UM) Co-promotor: dr. J.W.H.M. Uiterwijk (UM) Promotie: 1 December 2004
2004-12	The Duy Bui (UT) <i>Creating emotions and facial expressions for embodied agents</i> Promotor: Prof.dr.ir. A. Nijholt (UT) Co-promotor: dr. D.K.J. Heylen (UT) Promotie: 1 July 2004	2004-18	Vania Bessa Machado (UvA) <i>Supporting the Construction of Qualitative Knowledge Models</i> Promotor: Prof.dr. B.J. Wielinga (UvA) Co-promotor: Dr. B. Bredeweg (UvA) Promotie: 29 November 2004
2004-13	Wojciech Jamroga (UT) <i>Using Multiple Models of Reality: On Agents who Know how to Play</i> 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	2004-19	Thijs Westerveld (UT) <i>Using generative probabilistic models for multimedia retrieval</i> Promotor: Prof.dr. F.M.G. de Jong (UT) Co-promotor: Dr. A.P. de Vries (CWI) Promotie: 25 November 2004
2004-14	Paul Harrenstein (UU) <i>Logic in Conflict. Logical Explorations in Strategic Equilibrium</i> 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	2004-20	Madelon Evers (Nyenrode) <i>Learning from Design: facilitating multidisciplinary design teams</i> Promotores: Prof dr W. Baets (Nyenrode), Prof.dr. G. van der Veer (VU) Co-promotor: dr. Th. Homan (Nyenrode) Promotie: 10 December 2004
2004-15	Arno Knobbe (UU) <i>Multi-Relational Data Mining</i> Promotor: Prof.dr. A.P.J.M. Siebes (UU) Promotie: 22 November 2004	2003	
2004-16	Federico Divina (VU) <i>Hybrid Genetic Relational Search for Inductive Learning</i> Promotor: Prof.dr. A.E. Eiben (VU) Co-promotor: dr. E. Marchiori (VU) Promotie: 26 October 2004	2003-01	Heiner Stuckenschmidt (VU) <i>Ontology-Based Information Sharing in Weakly Structured Environments</i> Promoter: 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) <i>Modal Action Logics for Reasoning About Reactive Systems</i> 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 Weerdt (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	2002-04
Menzo Windhouwer (CWI) <i>Feature Grammar Systems - Incremental Maintenance of Indexes to Digital Media Warehouses</i> Promotor: Prof.dr. M.Kersten (UVA/CWI) Promotie: 06 November 2003	Juan Roberto Castelo Valdueza (UU) <i>The Discrete Acyclic Digraph Markov Model in Data Mining</i> promotor: Prof.dr. A Siebes (UU) Promotie: 3 june 2002
2003-17	2002-05
David Jansen (UT) <i>Extensions of Statecharts with Probability, Time, and Stochastic Timing</i> Promotor: Prof.dr. R.J. Wieringa (UT) Assistant-promotor: dr. J-P Katoen (UT) Promotie: 29 Oktober 2003	Radu Serban (VU) <i>The Private Cyberspace Modeling Electronic Environments inhabited by Privacy-concerned Agents</i> promotor: Prof.dr. R.P.van de Riet Promotie: 5 november 2002
2003-18	2002-06
Levente Kocsis (UM) <i>Learning Search Decisions</i> Promotor: prof.dr. H.J. van den Herik (UM) Copromotor: dr. J.W.H.M. Uiterwijk (UM) Promotie: 11 December 2003	Laurens Mommers (UL) <i>Applied legal epistemology; Building a knowledge-based ontology of the legal domain</i> promotor: Prof.dr. H.J. van den Herik (UL / UM) Promotie: 20 June 2002
2002	2002-07
2002-01	Peter Boncz (CWI) <i>Monet: A Next-Generation DBMS Kernel For Query-Intensive Applications</i> promotor: prof.dr. M.L. Kersten (CWI/UVA)) Promotie: 31 May 2002
Roelof van Zwol (UT) <i>Modelling and searching web-based document collections</i> Promotor: Prof.dr. P.M.G. Apers (UT) Promotie: 26 april 2002	Jaap Gordijn (VU) <i>Value Based Requirements Engineering: Exploring Innovative E-Commerce Ideas</i> promotor: prof.dr. J.M.Akkermans(VU)) Promotie: 25 June 2002
2002-03	2002-08
Henk Ernst Blok (UT) <i>Database Optimization Aspects for Information Retrieval</i> promotor: Prof.dr. P.M.G. Apers (UT) co-promotor: Dr. H.M. Blanken (UT) Promotie: 12 april 2002	Willem-Jan van den Heuvel(KUB) <i>Integrating Modern Business Applications with Objectified Legacy Systems</i> promotores: Prof.dr.ir.m.P. Papazoglou (KUB), Prof.dr. P. Ribbers (KUB) Promotie: 14 juni 2002
	2002-09
	Brian Sheppard (UM) <i>Towards Perfect Play of Scrabble</i> promotores: Prof.dr. H.J. van den Herik (UM), Prof.dr. J. Schaeffer (University of Alberta) Promotie: 5 July 2002

2002-11		2002-17
Wouter C.A. Wijngaards (VU)	Stefan Manegold (UVA)	
<i>Agent Based Modelling of Dynamics:</i>	<i>Understanding, Modeling, and Improving</i>	
Biological and Organisational	<i>Main-Memory Database Performance</i>	
Applications	promotor: prof.dr. M. Kersten	
promotor Prof.dr. J. Treur	(UVA/CWI)	
co-promotor Dr. C.M. Jonker	Promotie: 17 December 2002	
Promotie: 14 oktober 2002		
2002-12	2001	
Albrecht Schmidt (Uva)	2001-1	
<i>Processing XML in Database Systems</i>	Silja Renooij (UU)	
promotor: prof.dr. M.L. Kersten	<i>Qualitative Approaches to Quantifying</i>	
(Uva/CWI)	<i>Probabilistic Networks</i>	
Promotie: 7 november 2002	Promotores: prof.dr. J.-J.Ch. Meyer (UU)	
	prof.dr.ir. L.C. van der Gaag (UU)	
2002-13	Co-promotor: dr. C.L.M Witteman (UU)	
Hongjing Wu (TUE)	Promotie: 12 maart 2001	
<i>A Reference Architecture for Adaptive</i>		
<i>Hypermedia Applications</i>		
promotores: Prof.dr.ir. P. De Bra (TUE),	2001-2	
Prof.dr.ir. L. Hardman (CWI/TUE)	Koen Hindriks (UU)	
Promotie: 8 november 2002	<i>Agent Programming Languages:</i>	
	<i>Programming with Mental Models</i>	
2002-14	Promotor: prof.dr. J.-J.Ch. Meyer (UU)	
Wieke de Vries (UU)	Co-Promotores: dr. W. van der Hoek	
<i>Agent Interaction: Abstract Approaches to</i>	(UU) dr. F.S. de Boer (UU)	
<i>Modelling, Programming and Verifying</i>	Promotie: 5 februari 2001	
<i>Multi-Agent Systems</i>		
promotores: Prof.dr. J.-J. Meyer (UU),	2001-3	
Prof.dr. J. Treur ((VU))	Maarten van Someren (UvA)	
co-promotores: dr.F.S. de Boer, dr. W.	<i>Learning as problem solving</i>	
van der Hoek (UU), dr. C.M. Jonker (VU)	Promotor: prof.dr. B.J. Wielinga (UvA)	
Promotie: 11 November 2002	Promotie: 1 maart 2001	
2002-15	2001-4	
Rik Eshuis (UT)	Evgueni Smirnov (UM)	
<i>Semantics and Verification of UML Activity</i>	<i>Conjunctive and Disjunctive Version Spaces</i>	
<i>Diagrams for Workflow Modelling</i>	<i>with Instance-Based Boundary Sets</i>	
promotor: Prof.dr. R.J. Wieringa (UT)	Promotor: Prof.dr. H.J. van den Herik	
Promotie: 25 October 2002	(UM/RUL)	
2002-16	Promotie: 22 februari 2001	
Pieter van Langen (VU)	2001-5	
<i>The Anatomy of Design: Foundations,</i>	Jacco van Ossenbruggen (VU)	
<i>Models and Applications</i>	<i>Processing Structured Hypermedia: A Matter</i>	
promotores: prof.dr. F.M.T. Brazier,	<i>of Style</i>	
prof.dr. J. Treur	Promotor: prof.dr. J.C. van Vliet (VU)	
Promotie: 22 November 2002	Promotie: 10 april 2001	

2001-6	2000
Martijn van Welie (VU) <i>Task-based User Interface Design</i> Promotor: prof.dr. J.C. van Vliet (VU) Co-promotores: dr. G.C. van der Veer (VU) dr. A. Eliens (VU) Promotie: 17 april 2001	Frank Niessink (VU) <i>Perspectives on Improving Software Maintenance</i> Promotor: prof.dr. J.C. van Vliet (VU) Promotie: 28 maart 2000
2001-7	2000-2
Bastiaan Schonhage (VU) <i>Diva: Architectural Perspectives on Information Visualization</i> Promotor: prof.dr. J.C. van Vliet (VU) Co-promotor: dr. A. Eliëns (VU) Promotie: 8 mei 2001	Koen Holtman (TUE) <i>Prototyping of CMS Storage Management</i> Promotores: 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
2001-8	2000-3
Pascal van Eck (VU) <i>A Compositional Semantic Structure for Multi-Agent Systems Dynamics.</i> Promotores: prof.dr. F.M.T. Brazier (VU) prof.dr. J. Treur (VU) Promotie: 12 juni 2001	Carolien M.T. Metselaar (UVA) <i>Sociaal-organisatorische gevolgen van kennistechnologie; een procesbenadering en actorperspectief.</i> Promotor: Prof.dr. B.J. Wielinga Co-promotor: Dr. P.A.A. van den Besselaar Promotie: 20 juni 2000
2001-9	2000-4
Pieter Jan 't Hoen (RUL) <i>Towards Distributed Development of Large Object-Oriented Models, Views of Packages as Classes</i> Promoter: prof.dr. G. G. Engels Co-promotoren: dr. L.P.J. Groenewegen dr. P.W.M. Koopman Promotie: 25 oktober 2001	Geert de Haan (VU) <i>ETAG, A Formal Model of Competence Knowledge for User Interface Design</i> Promotor: Prof.dr. J.C. van Vliet Co-promotores: Dr. G.C. van der Veer Dr. M.J. Tauber Promotie: 10 oktober 2000
2001-10	2000-5
Maarten Sierhuis (UvA) <i>Modeling and Simulating Work Practice BRAHMS: a multiagent modeling and simulation language for work practice analysis and design</i> Promotores: 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	Ruud van der Pol (UM) <i>Knowledge-based Query Formulation in Information Retrieval.</i> Promotores: 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
2001-11	2000-6
Tom M. van Engers (VUA) <i>Knowledge Management: The Role of Mental Models in Business Systems Design</i> Promotor: Prof.dr. J.M. Akkermans (VUA) Co-promotor: Dr. G.C. van der Veer (VUA) Promotie: 11 december 2001	Rogier van Eijk (UU) <i>Programming Languages for Agent Communication</i> Promotor: prof.dr. John-Jules Ch. Meyer Co-promotores: Dr. Frank S. de Boer Dr. Wiebe van der Hoek Promotie: 18 oktober 2000

2000-7	99-2
Niels Peek (UU) <i>Decision-theoretic Planning of Clinical Patient Management</i> Promotor: prof.dr. J.-J. Ch. Meyer Co-promotor: Dr.P.J.F.Lucas Promotie: 30 oktober 2000	Rob Potharst (EUR) <i>Classification using decision trees and neural nets</i> Promotor: prof.dr. A. de Bruin Co-promotor: Dr. J.C. Bioch Promotie: 4 juni 1999
2000-8	99-3
Veerle Coupé (EUR) <i>Sensitivity Analysis of Decision-Theoretic Networks</i> Promotores: prof.dr.J.D.F. Habbema prof.dr.ir.L.C van der Gaag Promotie: 27 september 2000	Don Beal (UM) <i>The Nature of Minimax Search</i> Promotor: Prof.dr. H.J.van den Herik Promotie: 11 juni 1999
2000-9	99-4
Florian Waas (CWI) <i>Principles of Probabilistic Query Optimization</i> Promotor: prof.dr. M.L. Kersten (CWI/UvA) Promotie: 03 november 2000	Jacques Penders (UM) <i>The practical Art of Moving Physical Objects</i> Promotor: Prof.dr. H.J. van den Herik Co-promotor: Dr. P.J. Braspenning Promotie: 11 juni 1999
2000-10	99-5
Niels Nes (CWI) <i>Image Database Management System Design Considerations, Algorithms and Architecture</i> Promotor: prof.dr. M.L. Kersten (CWI/UvA) Promotie: 14 december 2000	Aldo de Moor (KUB) <i>Empowering Communities: A Method for the Legitimate User-Driven Specification of Network Information Systems</i> Promotor: Prof.Dr. R.A. Meersman Co-promotor: Dr. H. Weigand Promotie: 1 oktober 1999
2000-11	99-6
Jonas Karlsson (CWI) <i>Scalable Distributed Data Structures for Database Management</i> Promotor: prof.dr. M.L. Kersten (CWI/UvA) Promotie: 14 december 2000	Niek J.E. Wijngaards (VU) <i>Re-design of compositional systems</i> Promotor: prof.dr. J. Treur Co-promotor: Dr. F.M.T. Brazier Promotie: 30 september 1999
1999	99-7
99-1	David Spelt (UT) <i>Verification support for object database design</i> Promotor: Prof.dr. P.M.G. Apers Assistent promotor: Dr. H. Balsters Promotie: 10 september 1999
Mark Sloof (VU) <i>Physiology of Quality Change Modelling; Automated modelling of Quality Change of Agricultural Products</i> Promotor: prof.dr. J. Treur Co-promotor: Dr.ir.m. Willems Promotie: 11 mei 1999	99-8
	Jacques H.J. Lenting (UM) <i>Informed Gambling: Conception and Analysis of a Multi-Agent Mechanism for Discrete Reallocation.</i> 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

