

## **THE UNIVERSITY OF BRITISH COLUMBIA**

### *Curriculum Vitae for Faculty Members*

**Date:** March 31, 2017

**Initials:** *CW*

1. **SURNAME:** Woo **FIRST NAME:** Carson  
**MIDDLENAME(S):** Chia-Siang

2. **DEPARTMENT/SCHOOL:**

3. **FACULTY:** Commerce and Business Administration

4. **PRESENT RANK:** Associate Professor **SINCE:** 1995

5. **POST-SECONDARY EDUCATION**

<b>University or Institution</b>	<b>Degree</b>	<b>Subject Area</b>	<b>Dates</b>
University of Toronto	Ph.D.	Computer Science	June 1988
University of Toronto	M.Sc.	Computer Science	June 1983
University of Toronto	B.Sc.	Computer Science	June 1981

**Title of Dissertation and Name of Supervisor**

Title: An Object-Oriented Model for Supporting Office Work

Supervisor: Professor Frederick H. Lochovsky

**Special Professional Qualifications**

None.

6. **EMPLOYMENT RECORD**

(a) *Prior to coming to UBC*

<b>University, Company or Organization</b>	<b>Rank or Title</b>	<b>Dates</b>

(b) *At UBC*

<b>Rank or Title</b>	<b>Dates</b>
Acting Chair, Management Information Systems Division	July 2008 - June 2009
	July 2002 - June 2003
	July 1997 - June 1998
Associate Professor	July 1995 - Present
Assistant Professor	July 1987 - June 1995

(c) *Date of granting of tenure at U.B.C.:*

July 1993

## 7. LEAVE OF ABSENCE

University, Company or Organization at which Leave was taken	Type of Leave	Dates
University of Trento, Italy	Sabbatical	July - December 2014
University of British Columbia	Sabbatical	July - December 2013
University of British Columbia	Sabbatical	July 2005 - June 2006
BC Tel Mobility	Sabbatical	July 1998 - June 1999
University of British Columbia	Sabbatical	July - December 1991

## 8. TEACHING

(a) *Areas of special interest and accomplishments*

For the past five years, I was mainly teaching the following courses:

1. *IT Entrepreneurship (Comm 486O/P):*

This is a capstone course initiated by my colleague, Yair Wand, and me with two industry mentors (Blake Hanna and Paul Maurer). It integrates materials students learned in the program in the context of innovative applications of IT. Some of the course project resulted in a start-up company.

2. *CIO Strategies (Comm 486N):*

This is a capstone course initiated by the Advisory Board of our MIS Division. It integrates past learning in various MIS courses, and discuss a wide variety of IT issues (faced by organizations) from the senior management perspective. A key feature of this course is we have about 10 guest lecturers who are Chief Information Officers (CIO) themselves from different industries and company sizes.

3. *Systems Analysis and Design (Comm 436):*

There are two major components to this course: (1) conceptual modeling, and (2) a real world business analysis project. The objective of the course is to prepare students to become a business analyst. I incorporated more recent research work of conceptual modeling into the course so that students can learn something more advanced and what are the unresolved issues in the area. A key feature of this course is students get to do a business analysis for a real world project of their choice.

4. *Information Technology for Management (BAIT 550 and SPHA 543):*

This is an introductory course for students who have no background in information technology management. I utilize a case-based approach to teach the course so that students can gain an overall picture of the area and its challenges without getting into a lot of details in information technology. I have been teaching those two courses as overload with paid stipend.

(b) Courses taught at UBC (Last Five Years)

Session	Course Number	Scheduled Hours	Class Size	Hours Taught	
				Lectures	Tutorials/Other
16-17	Comm 436 (101)	3/week	34	39/year	
16-17	Comm 436 (201)	3/week	39	39/year	
16-17	Comm 436 (202)	3/week	37	39/year	
16-17	Comm 486N	3/week	21	39/year	
15-16	Comm 436 (101)	3/week	31	39/year	
15-16	Comm 436 (201)	3/week	39	39/year	
15-16	Comm 436 (202)	3/week	27	39/year	
15-16	Comm 486N	3/week	21	39/year	
14-15	Comm 436 (201)	3/week	48	39/year	
14-15	Comm 486N	3/week	25	39/year	
14-15	BAIT 550	4/week	49	20/year	
13-14	Comm 436 (201)	3/week	33	39/year	
13-14	Comm 436 (202)	3/week	28	39/year	
12-13	Comm 436	3/week	64	39/year	
12-13	Comm 486O	3/week	9	39/year	
12-13	Comm 486P	3/week	10	39/year	
12-13	1/2 of Comm 636	1.5/week			
12-13	BAIT 580A	3/week	8	20/year	

(c) Graduate Students Supervised

Student Name	Program	Year		Principal Supervisor	Advisory Committee
		Start	Finish		
Atefeh Taghavi	Ph.D.	2015		Carson Woo	
Wei Sun	Ph.D.	2013	2015	Yair Wand Carson Woo	
Kafui Monu	Ph.D.	2005	2011	Carson Woo	
Sase Singh	Ph.D.	2003	2009	Carson Woo Andrew Burton-Jones	
Ofer Arazy	Ph.D.	1999	2004	Carson Woo	
Michael Brydon	Ph.D.	1995	2000	Carson Woo	
Atefeh Taghavi	M.Sc.	2013		Carson Woo	Nan
Fei Sun	M.Sc.	2007	2009	Carson Woo	Wand
Kafui Monu	M.Sc.	2004	2005	Carson Woo	Wand
Richard Sze	M.Sc.	2003	2004	Carson Woo	Wand
Weida Wang	M.Sc.	2002	2004	Carson Woo	Wand
Pierre Parkinson	M.Sc.	2002	2003	Carson Woo	Wand
Bob Payne	M.Sc.	1999	2003	Carson Woo	Wand

(c) Graduate Students Supervised (continue from previous page)

Student Name	Program	Year		Principal Supervisor	Advisory Committee
		Start	Finish		
Huijin (Ken) Guo	M.Sc.	2001	2002	Carson Woo	Wand
Dorothy Wong	M.Sc.	1999	2001	John Tillquist Carson Woo	Kedrosky
Jim (Jingxi) Lu	M.Sc.	1998	1999	Carson Woo Yair Wand	Steif
Sansern (Art) Prompibalcheep	M.Sc.	1998	1999	Carson Woo	Antweiler
Gaurav Mehra	M.Sc.	1997	1999	Carson Woo Izak Benbasat	Tillquist
Aaron Zhang	M.Sc.	1997	1998	Carson Woo Yair Wand	Steif
Samson Hui	M.Sc.	1996	1997	Carson Woo Yair Wand	Brumelle
Darrell Jung	M.Sc.	1995	1997	Carson Woo	Wand, Suh
William Tan	M.Sc.	1994	1997	Carson Woo Yair Wand	Tillquist
Fan Chun	M.Sc.	1995	1997	Carson Woo	Dexter, Fariee
Lik Alaric Lau	M.Sc.	1991	1993	Carson Woo	Wand, Rao
Feng Lu	M.Sc.	1990	1992	Carson Woo	Wand, Rao
Thomas Hofbauer	M.Sc.	1990	1992	Carson Woo	Dexter, Goldstein
Man-Kit Chang	M.Sc.	1990	1991	Carson Woo	Rosenberg, Trice
Tao Zeng	M.Sc.	1989	1990	Carson Woo	Goldstein
Ali Alasmari	Ph.D.	2016		Camp	Carson Woo, ...
Sherry Xie	Ph.D.	2009	2013	Duranti	Carson Woo, ...
Mandana Sotoodeh	Ph.D.	2007	no	Kruchten	Carson Woo, ...
Eran Rubin	Ph.D.	2003	2009	Wand	Carson Woo, ...
Joerg Evermann	Ph.D.	2002	2003	Wand	Carson Woo, ...
Deb Armstrong	Ph.D.	1999	2000	Nelson	Carson Woo, ...
Kelvin Yu	Ph.D.	1996	2001	Froese	Carson Woo, ...
Lai-Huat Lim	Ph.D.	1994	1995	Benbasat	Carson Woo, ...
Terry Coatta	Ph.D.	1990	1994	Neufeld	Carson Woo, ...
Heng-Li Yang	Ph.D.	1991	1992	Goldstein	Carson Woo, ...
Jeff Parsons	Ph.D.	1989	1991	Wand	Carson Woo, ...
Ken Takagaki	Ph.D.	1988	1990	Wand	Carson Woo, ...
Julie Johnson	Ph.D.	1987	1989	Rosenberg	Carson Woo, ...

(c) *Graduate Students Supervised (continue from previous page)*

Student Name	Program	Year		Principal Supervisor	Advisory Committee
		Start	Finish		
Michael He	M.Sc.	2007	2008	Wand	Carson Woo, ...
Anna Krasnoperova	M.Sc.	2005	2006	Wand	Carson Woo, ...
Nawei Yin	M.Sc.	2004	2004	Wand	Carson Woo, ...
Jingwei Xu	M.Sc.	2003	2004	Wand	Carson Woo, ...
Zhuang Howard	M.Sc.	2003	2003	Wand	Carson Woo, ...
Andy Mi	M.Sc.	2003	2003	Wand	Carson Woo, ...
David Hood	M.Sc.	2002	2004	Wand	Carson Woo, ...
Zhengbin Shuai	M.Sc.	2002	2003	Wand	Carson Woo, ...
Palash Bera	M.Sc.	2002	2002	Wand	Carson Woo, ...
Eran Rubin	M.Sc.	2002	2002	Wand	Carson Woo, ...
Qingyu Wang	M.Sc.	2002	2002	Wand	Carson Woo, ...
Ankur Marwah	M.Sc.	2001	2001	Wand	Carson Woo, ...
Stan Chan	M.Sc.	1999	1999	Tillquist	Carson Woo, ...
Sue Rathie	M.Sc.	1994	1998	Goldstein	Carson Woo, ...
Victor Ng	M.Sc.	1996	1997	Goldstein	Carson Woo, ...
John Oram	M.Sc.	1996	1997	Dexter	Carson Woo, ...
David Horspool	M.Sc.	1996	1996	Dexter	Carson Woo, ...
Soon Aun Yeap	M.Sc.	1995	1996	Wand	Carson Woo, ...
Hao Zhao	M.Sc.	1994	1995	Wand	Carson Woo, ...
Yvonne Chan	M.Sc.	1994	1994	Benbasat	Carson Woo, ...
Jie Ding	M.Sc.	1993	1994	Goldstein	Carson Woo, ...
Wai-Lan Luk	M.Sc.	1992	1994	Rao	Carson Woo, ...

(d) *Continuing Education Activities*

1. Guest lecturer, e-Business Certificate Program, UBC Continuing Studies, August 21, 2001 and April 17, 2002.

(e) *Visiting Lecturer*

1. Introductions to Management Information Systems (28 hours), Cheung Kong Graduate School of Business EMBA program, Beijing, China, April-May and September-October, 2004. Course taught in Chinese in six sections.
2. Advance Topics in Information Systems (22.5 hours). University of Klagenfurt, Austria, December 4 - 9, 1998.

(f) *Other*

1. Co-taught the course “Comm 336 – Introduction to E-Business” to a group of students from Hong Kong University of Science and Technology, Summer of 2013.

2. Co-taught the course “Comm 336 – Introduction to E-Business” to a group of students from Chinese University of Hong Kong at Shenzhen, Summer of 2015 – 2017.
3. Co-taught the course “Comm 336 – Introduction to E-Business” to a group of students from Singapore Management University, Summer of 2001 – 2017.
4. Taught part of the Korean Telecom Directors program on September 25 and 27, 2001, and September 16, 19 and 23, 2002. Supervised project in 2002 (D.H. Jung and J.S. Shim).
5. Taught part of the Korean Telecom Managers program on October 18, 2000, June 5-6, 2001, October 30, 2001, and May 24, 2002.
6. Co-taught (with Yair Wand) a two weeks e-business seminar to a group of Shanghai Telecom executives and Shanghai Jiao Tong University IMBA students from China, January 28 – February 8, 2002.
7. Co-taught (with Yair Wand) a one week e-business seminar (in Shanghai, China) to a group of Shanghai Telecom executives, October 22 – 26, 2001.
8. Taught part of the China (Shanghai) Bao Steel program (half a day), September 11, 2000, and July 4, 2002.
9. Co-taught (with Yair Wand and John Claxton) the introduction to e-business executive course on Sept 25, 2000, and Jan 29, 2001.
10. “Financial Planning and Information Systems”. This is an executive program course in the Alcan/CNNC Management Training Program (offered by Alcan Canada and Simon Fraser University), May 1989.

## **9. SCHOLARLY AND PROFESSIONAL ACTIVITIES**

### *(a) Areas of special interest and accomplishments*

#### **Areas of special interest:**

- My overall research objective is to develop information systems (IS) that are evolutionary, and so enable businesses to avoid making major changes to their systems designs. This is important because companies are spending a large amount of money on maintaining and upgrading their ISs (sometimes more than on developing new ISs). The novelty of my approach lies in acquiring relevant contextual information (e.g., business goals) and utilizing it to design new ISs, or aligning it to existing IS design, so that changes can be more appropriate to business needs. Because business knowledge is often vague, we need to develop constructs and methods that make the contextual information more concrete. I am accomplishing this objective through conceptual modeling of business context.
- I am also interested in applying this research work to domains such as crisis response and management, archival science, enterprise architecture, and business-IT alignment.

#### **Accomplishments:**

- Developed an organizational computing system called OASIS, which was commercialized by UBC during the mid 1990s.

- Developed, together with Professor Yair Wand, a context modelling method for PanCanadian Petroleum Limited. They used this method to reverse engineer their legacy database systems.
- Developed, together with Professor Yair Wand, a method for modelling the business using object-oriented concepts and linking the business models to existing information systems architectures. This work was funded by B.C. Tel Mobility.
- Developed a set of rules and a CASE tool for roles and request modeling. This is done in collaboration with Professor Yair Wand (UBC). This work is currently being commercialized by ModiViz Business System Modeling Solutions Inc. We have successfully used the work to help various business units in the Sauder School of Business in their reorganization, in improving efficiency and effectiveness of their operations, and in ensuring business continuity when there are personnel changes.
- Elected as ACM SIGOIS chairperson (see Section 11, part (a)).
- Elected as WITS vice president and then president (see Section 11, part (a)).

*(b) Research or equivalent grants (indicated under COMP whether grants were obtained competitively (C) or non-competitively (NC))*

Granting Agency	Subject	COMP	\$ per Year	Year	Principal Investigator	Co-investigator(s)
NSERC	Expanding Conceptual Modeling to Help Manage Changes in the Business	C	\$15,000	17-18	Carson Woo	
			\$15,000	16-17		
			\$15,000	15-16		
			\$15,000	14-15		
			\$15,000	13-14		
NSERC	Individual Discovery Grant "Tools and Techniques for Acquiring, Specifying, and Utilizing Business Strategy in Early Information Systems Requirements"	C	\$22,400	08-09	Carson Woo	
			\$22,400	09-10		
			\$22,400	10-11		
			\$22,400	11-12		
			\$22,400	12-13		
Sauder SSHRC	Goals and IS Design	C	\$3,750	10-11	Carson Woo	
	Business-IT Alignment	C	\$4,000	08-09		
NSERC	Joint Infrastructure Inter-dependencies Research Program (JIIRP) "Decision Coordination for Critical Linkages in a National Network of Infrastructures"	C	\$340,000	05-06	Jose Marti	Carson Woo, plus 10 others from Computer Science and Engineering
			\$340,000	06-07		
			\$340,000	07-08		
NSERC	Individual Discovery Grant "Tools and Techniques for Supporting Workflow Evolution and Exception Handling"	C	\$26,000	03-04	Carson Woo	
			\$26,000	04-05		
			\$26,000	05-06		
			\$26,000	06-07		
			\$26,000	07-08		
NSERC	Individual Operating Grant "Evolving Information Systems in a Rapidly Changing Business Environment"	C	\$13,650	99-00	Carson Woo	
			\$13,650	00-01		
			\$13,650	01-02		
			\$13,650	02-03		

(b) Research or equivalent grants (continue from previous page)

Granting Agency	Subject	COMP	\$ per Year	Year	Principal Investigator	Co-investigator(s)
NSERC	Individual Operating Grant "Methods and Tools for Developing Organizational Computing Systems"	C	\$9,500 \$9,500 \$9,500 \$10,450	95-96 96-97 97-98 98-99	Carson Woo	
NSERC	Strategic Grant "Logging, Annotation and Navigation for Hypermedia Video Analysis Tools" Strategic Equipment Grant	C	\$102,060 \$103,726 \$107,499 \$39,880	92-93 93-94 94-95 92-93	K.S. Booth	Carson Woo, Baldwin, Goldman- Segall, Goldstein, Ng, Rao and Sinclair (SFU)
IBM	Computer Supported Cooperative Work	NC	\$21,300	1992	Carson Woo	
NSERC	Individual Operating Grant "Supporting Knowledge Migration and Systems Interactions in Organizations"	C	\$10,000 \$10,000 \$10,000 \$10,000	91-92 92-93 93-94 94-95	Carson Woo	
NSERC	Federal Network of Centres of Excellence (Institute for Robotics and Intelligent Systems) "Designing Human-Machine Information Systems"	C	\$41,300 \$50,000 \$60,000 \$55,000	90-91 91-92 92-93 93-94	Carson Woo	
NSERC	Individual Operating Grant "Communication Tools for Supporting the Cooperation of Micro-Organizational Activities"	C	\$6,000	90-91	Carson Woo	
NSERC	Individual Operating Grant "Providing Tools for Supporting Distributed Organizational Work"	C	\$14,000 \$14,000	88-89 89-90	Carson Woo	
UBC	HSS Large Grant	C	\$5,000	01-02	Carson Woo	
UBC	UBC-NSERC Equipment Grant	C	\$14,000	89-90	Carson Woo	
UBC	HSS New Faculty Grant	C	\$2,000	87-88	Carson Woo	
UBC	HSS Small Grant	C	\$1,660 \$1,600 \$1,600 \$1,600 \$1,400 \$1,500 \$1,400 \$1,500 \$1,425	89-90 90-91 91-92 92-93 93-94 94-95 95-96 96-97 97-98	Carson Woo	



(b) *Research or equivalent grants (continue from previous page)*

<b>Granting Agency</b>	<b>Subject</b>	<b>COMP</b>	<b>\$ per Year</b>	<b>Year</b>	<b>Principal Investigator</b>	<b>Co-investigator(s)</b>
UBC	HSS Small Grant		\$1,500	98-99		
			\$1,700	99-00		
			\$1,654	00-01		
			\$2,190	02-02		
			\$2,210	03-04		
			\$1,294	04-05		

(c) *Research or equivalent contracts (indicated under COMP whether contracts were obtained competitively (C) or non-competitively (NC))*

<b>Granting Agency</b>	<b>Subject</b>	<b>COMP</b>	<b>\$ per Year</b>	<b>Year</b>	<b>Principal Investigator</b>	<b>Co-investigator(s)</b>
BuildDirect	A Rule-Based System for Supporting B2B E-Commerce	NC	\$68,000 (5 months)	02-03	Yair Wand & Carson Woo	Garland Chow
UBC Office of Research Services	Knowledge Management for Ethical Review Applications	NC	\$15,000 (5 months)	02-03	Yair Wand & Carson Woo	
BC Tel Mobility	Object-Oriented Enterprise Modelling	NC	\$100,000 (one year)	98-99	Carson Woo	Yair Wand
VanCity Savings Credit Union	Data distribution and Warehousing - Phase 1	NC	\$18,500 (10 weeks)	1998	Carson Woo	
PanCanadian Petroleum Ltd.	A Method for Reverse Engineering database Designs	NC	\$60,000 (5 months)	97-98	Yair Wand & Carson Woo	

(d) *Invited Presentations*

1. “An Organizational Actor Approach to Gathering Early Phase Requirements”, presented at the University of Trento, Department of Information Engineering and Computer Science, Italy, October 1, 2014.
2. “An Organizational Actor Approach to Gathering Early Phase Requirements”, presented at the Hong Kong University of Science and Technology, Department of Computer Science, June 23, 2014.
3. One of three keynote speakers, “The Role of Conceptual Modeling in Managing and Changing the Business”, 30<sup>th</sup> International Conference on Conceptual Modeling (ER’2011), Brussels, Belgium, October 31 – November 3, 2011.
4. “An Organizational Intelligence Platform – Role and Request Model”, presented at the Business Academic Exchange session, American Conference on Information Systems (AMCIS, Detroit, August 5, 2011).
5. “Conceptual Modeling for Evolving and Chaotic Business”. Presented at the Center for Enterprise Architecture, Pennsylvania State University, February 15, 2011.
6. “Conceptual Modeling and Business Intelligence”, Pre-PACIS Workshop on Business Intelligence and Analytics, Taipei, Taiwan, July 9, 2010.

7. "Intelligent Agents as a Modelling Paradigm". Presented at the University of Lausanne, Switzerland, August 26, 2005.
8. "A Representational Scheme for Analyzing Information Technology and Organizational Dependency". Presented at the University of Washington, Seattle, November 14, 2003.
9. "A Representational Scheme for Analyzing Information Technology and Organizational Dependency". Invited speaker, the University of Arizona MIS Conference (Tucson, Arizona, October 24-25, 2003).
10. "Linking Existing IS Architecture to the Business Model", Presented at the City University, Hong Kong, December 4, 2000.
11. "Information Technology and New Business Paradigms". Dinner speaker, Sunbrite Business Association Membership Gathering, Vancouver, B.C., November 18, 1999.
12. "Linking IS Architecture to the Business Model". Invited speaker, the Second Fall Conference on Managing Information Technologies (Troy, Michigan, October 8-9, 1999).
13. "Linking Existing IS Architecture to the Business Model", Presented at the Business Objective Consulting, Vienna, Austria, December 10, 1998.
14. "Linking Existing IS Architecture to the Business Model", Presented at the University of Klagenfurt, Austria, December 9, 1998.
15. "Object-Oriented Enterprise Modelling". Presented, together with Professor Yair Wand, at the headquarters of B.C. Tel Mobility (Burnaby, B.C.), October 10, 1997.
16. "Re-Usability for Ad Hoc or Evolving Business Applications: The OASIS Experience". Presented at the headquarters of B.C. Tel Mobility (Burnaby, B.C.), July 23, 1997.
17. "Object-Oriented Enterprise Modelling". Presented, together with Professor Yair Wand, at the Department of Industry Engineering, University of Toronto, October 31, 1994.
18. "Is the Object-Oriented Approach Advantageous in the Context of Business Process Reengineering?". One of the three keynote presentations. Presented, together with Professor Yair Wand, at Informatique Cognitive des Organisations (ICO-94) Symposium (Montreal, Quebec, May 11-12, 1994).
19. "Using OASIS for Enterprise-Wide Computing". Presented at the School of Business Administration, University of Washington, Seattle. November 12, 1993.
20. "A Framework for Performing Research in Building Organizational Computing Systems". Presented at the *Toronto chapter of the Special Interest Group on Human Computer Interactions (SIGCHI) December 1992 meeting*, (Toronto, Ontario, December 9, 1992).
21. "Supporting Interactions in Distributed Organizations". Presented at the Department of Computer Science, Hong Kong University of Science and Technology, Hong Kong. October 23, 1991.
22. "Communication Tools for Facilitating the Automation of Semi-Structured and Recurring Negotiations in Organizations". Presented at the Conference on Organizational Computing, Coordination, and Collaboration: Theories and Technologies for Computer-Supported Work (Austin, Texas, February 25-26, 1991).

23. "A Speech-Act-Based Communication Protocol for Supporting Organizational Activities". Presented at the School of Business Administration, The University of Missouri-St. Louis, U.S.A. December 7, 1990.
24. "Modelling Office Work Using Objects". *Presented at the 57<sup>th</sup> A.C.F.A.S. Congress at U.Q.A.M.* (Montreal, Quebec, May 16, 1989).
25. "Towards Supporting the Open-Ended and Evolutionary Aspects of Organizational Work". Seminar speaker, Department of Computing and Information Science, Queen's University, Kingston, Ontario, Canada. June 9, 1988.

(e) *Other Presentations*

1. "Managing Change and Evolution in Information Systems", presented at the Big Ideas & Big Data: 40 Years of Data & Knowledge Base Research - A Workshop Honoring Fred Lochovsky on the Occasion of his Retirement, Hong Kong University of Science & Technology, June 15, 2016.
2. Atefeh Taghavi and Carson Woo, "A Role Clarity Framework for Gathering Business Activities". *Proceedings of the 14th AIS SIGSAND Symposium*, Richmond, Virginia, May 14 – 15, 2015.
3. Sandeep Puroo and Carson Woo, "Conceptual Modeling: Going Beyond the Stigma of YAMA". *Proceedings of the 13th AIS SIGSAND Symposium*, St. Louis, Missouri, May 31 – June 1, 2014, pp.27-31.
4. Kevin Chong and Carson Woo, "The Role of Actions in Understanding the 'Learning Construct' in Conceptual Models. *Proceedings of the 12th AIS SIGSAND Symposium* (Provo, Utah, May 17-18, 2013), pp.33-38.
5. Sase Singh and Carson Woo, "Improving the Legislative Drafting Process through Knowledge Management". *Proceedings of the 12th AIS SIGSAND Symposium* (Provo, Utah, May 17-18, 2013), pp.19-25.
6. Yair Wand, Carson Woo, and Wei Sun, "Towards a Unified View of Conceptual Modeling in Systems Analysis, Requirements Engineering and Systems Design", 10<sup>th</sup> symposium on Research in Systems Analysis and Design (Bloomington, Indiana, June 2-4, 2011)
7. Kafui Monu and Carson Woo, "Determining the Usefulness of Representing Organisational-Actor Thought Processes Using Conceptual Modeling", 10<sup>th</sup> symposium on Research in Systems Analysis and Design (Bloomington, Indiana, June 2-4, 2011)
8. "Using OASIS for Enterprise-Wide Computing". Presented at the Computer Research Center, Hewlett Packard Laboratories, Palo Alto. April 22, 1994.
9. "Using OASIS for Enterprise-Wide Computing". Presented at the Andersen Consulting's Center for Strategic Technology Research (CSTaR), Chicago. April 18, 1994.
10. "Supporting Learning in a Distributed Organizational Environment". Presented in the panel "Knowledge Bases, Deductive Databases, and Knowledge Discovery" discussion in the *IRIS-PREARN Workshop on Database and Knowledge-Based Systems*, Toronto, Ontario, December 4, 1992).
11. "Supporting Interactions in Distributed Organizations". Presented at the German National Research Center for Computer Science (GMD), Bonn, Germany. April 21, 1992.

12. “Supporting Recurring Interactions in Distributed Organizations”. Presented at the Centre for Advanced Studies, IBM Canada Laboratory, Toronto, Canada. July 5, 1991.
13. “Communication Tools for Supporting Organizational Work”. Presented at the Bell-Northern Research Laboratory, Ottawa, Ontario, Canada. August 11, 1989.

(f) *Other*

Professor Yair Wand and I presented our joint research work on object-oriented analysis as a tutorial (titled “Object-Oriented Analysis of Organizational Activities”) in the following conferences:

- Conference on Organizational Computing Systems (COOCS), (Milpitas, California, November 1, 1993) -- a 7 hours tutorial.
- Informatique Cognitive des Organisations (ICO) Symposium (Montreal, Quebec, May 10, 1994) -- a 7 hours tutorial.
- International Conference on Cooperative Information Systems (CoopIS), (Toronto, Canada, May 17, 1994) -- a 3 hours tutorial.
- IBM Centre for Advanced Studies Conference (CASCON), (Toronto, Canada, October 31, 1994) -- a 4 hours tutorial.

(g) *Conference Participation*

1. Panelist, “Getting Pragmatic: On the Role of Pragmatist Research in Information Systems”, AIS SIGPrag Workshop at ICIS2009, Phoenix, Arizona, Dec 15, 2009.
2. Panelist, “Role of Domain Expertise in Design”, 4<sup>th</sup> International Conference in Design Science Research in Information Systems and Technology (DESRIST), Philadelphia, Pennsylvania, May 7-8, 2009.
3. Yair Wand, Carson Woo, and Ohad Wand, “Role and Request Based Conceptual Modeling – A Methodology and a CASE Tool”, Poster and Prototype Demo Session, 20<sup>th</sup> International Conference on Advanced Information System Engineering (CAiSE’08), Montpellier, France, June 16-20, 2008.
4. Panelist, “Web 2.0 and Beyond – What's HOT and What's NOT: Challenging IS Research Issues”, The 17<sup>th</sup> Workshop on Information Technology Systems (WITS’2007), Montreal, Canada, December 8-9, 2007.
5. Yair Wand, Carson Woo, and Palash Bera, “Object-Oriented Enterprise Modeling – A Methodology and a CASE Tool”, Prototype Demo Session, 16<sup>th</sup> Annual Workshop on Information Technologies and Systems, Milwaukee, Wisconsin, Dec 9-10, 2006.
6. Panel co-chair (with Vijay Khatri), “Eliciting Data Semantics via Top-Down and Bottom-Up Approaches: Challenges and Opportunities”, 25<sup>th</sup> International Conference on Conceptual Modeling (ER 2006), Tucson, AZ, November 6-9, 2006.
7. Participated in the two days Doctoral Consortium of the 17<sup>th</sup> International Conference on Advanced Information Systems Engineering (CAiSE), Porto, Portugal, June 13-17, 2005.
8. Participated in the two days Doctoral Consortium of the 16<sup>th</sup> International Conference on Advanced Information Systems Engineering (CAiSE), Riga, Latvia, June 7-11, 2004.
9. Panelist, “Web Information Systems Engineering”, The 14<sup>th</sup> Conference on Advanced Information Systems Engineering (Toronto, Canada, May 27-31, 2002).

10. Panelist, "Teaching and Promoting Improvement Research Methods in Information Systems and Technology", Ninth Annual Workshop on Information Technologies and Systems (Charlotte, North Carolina, December 11-12, 1999).
11. Panelist, "Information Systems: A Three Faceted Perspective", *International Conference on Information Systems (ICIS'98, Helsinki, Finland, Dec 14-16, 1998)*.
12. Panelist, "Cooperative Information Systems: A Three Faceted Approach", *Workshop on Information Technology and Systems (Helsinki, Finland, Dec 12-13, 1998)*.
13. Panelist, "Cooperative Information Systems Manifesto: Components of Solutions, Emphasis and Recipe for Success", *Third IFCIS Conference on Cooperative Information Systems (CoopIS'98, New York, August 20-22, 1998)*.
14. "Using Speech Act Theory to Model Interactions". Presented in **the Foundations of Conceptual Modelling** panel in *the Workshop on Information Technology Systems (WITS)*, (Dallas, Texas, December 12-13, 1992).
15. "Computer-Supported Group Decision-Making at U.B.C.". Presented at **the Workshop on Computer-Supported Cooperative Work and Multi-media, IBM Centre for Advanced Studies Conference (CASCON)**, (Toronto, Ontario, November 9-12, 1992).

## 10. SERVICE TO THE UNIVERSITY

### (a) *Membership on committees, including offices held and dates*

- Chair, B.Comm Governance Committee, 2015-2017.
- UBC NSERC MSc Scholarship Committee, 2015.
- Head of Sauder IT, 2011 – 2013.
- Member, B.Comm Review Committee, 2011 – 2013.
- Chair, Sauder IT Governance Committee, 2012 – 2013.
- Chair, Sauder IT Advisory Committee, 2010 – 2012.
- Chair, Leslie Wilkins Award Selection Committee, 2010.
- Member, Canaccord Learning Commons Advisory Board, 2010 – 2011.
- Member, Sauder Assurance of Learning (AOL) Advisory Committee, 2010 – Present.
- Member, Sauder Building Renovation Committee, 2006 – 2008.
- Member, Sauder Web Advisory Team, 2004 – 2005.
- Member, Commerce Information Technology Strategy Committee, 2003 – 2005.
- Co-chair, Commerce Information Technology Working Group, 1999 - 2000.
- Director and founder, Bureau for Research on Applications of Information Technologies (BRITE), 1997 – 2012.
- Advisory board member, Bureau for E-Business Research, 2000 - 2001.
- Member, Faculty of Commerce Awards and Performance Advisory Committee, 2000 – 2002, 2007 – 2008.
- Member, Faculty of Commerce Ph.D. Program Policy Committee, 1997-98, 2002-03.
- Member, Faculty of Commerce M.Sc. Program Policy Committee, 1997-98.
- Steering committee member, UBC Centre for Educational Technology (CET), 1995-97.
- Member, CET subcommittee on Distributed Learning, 1995-97, 1999 – 2000.

- Member, Faculty of Commerce committee on Teaching Development, 1996-97.
- Member, Faculty of Commerce committee on UBC's 1995 open house.
- Faculty of Commerce Adjudicator, UBC-HSS Small Grant: 1994-96.
- Chair, Faculty of Commerce Computer Resource Committee: 1993-94.
- Member, Faculty of Commerce Computer Resource Committee: 1989-91.
- Faculty of Commerce representative to the Faculty of Education: 1993-94.

*(b) Other service, including dates*

- Chair, MIS Division recruiting committee: 2004 – 2005.
- Faculty Chair, MIS Division Alumni Committee: 2010 – 2012.
- Course coordinator for Comm 437 and BAIT 502: 1999 - 2001.
- Course coordinator for Comm 391: 1989 – 1991, 2007 – Present.
- MM MIS program advisor: 2004 – 2005.
- MBA IT and Management program advisor: 2000 - 2002.
- MIS M.Sc. program advisor: August - November, 2000.
- MIS undergraduate program advisor: 1993 – 1998, 1999 – 2001.
- Initiated and helped the formation of an MIS undergraduate co-op program (the first co-op program at UBC Faculty of Commerce): 1996-1997.
- University examiner for 26 Ph.D. theses and external examiner of 2 M.Sc. thesis.
- Chaired 7 Ph.D. thesis final orals.

## **11. SERVICE TO THE COMMUNITY**

*(a) Membership on scholarly societies, including offices held and dates*

- President (elected), Workshop on Information Technology and Systems (WITS), Inc. (incorporated as a non-profit organization in 1999; formally the WITS steering committee): January 2004 – December 2006; Director: January 1999 – December 2012; Vice-President and Secretary (elected): January 1998 – December 2000; Steering committee member: December 1993 - December 1997.
- Vice-chair (2017-2018) and chair (2019-2020), steering committee member, 2010 – Present, International Conference on Conceptual Modeling (ER).
- Advisory board member, Association of Information Systems (AIS) Special Interest Group in Systems Analysis and Design (SIGSAND), February 2004 – Present.
- Advisory board member, Association of Information Systems (AIS) Special Interest Group in Pragmatist IS research (SIGPrag), July 2008 – Present.
- Advisory board member, Association of Information Systems (AIS) Special Interest Group in Ontology-Driven Information Systems (SIGODIS), July 2004 – Present.
- Advisory board member, Information Technology and Systems Abstracting Journal, Information Systems and E-Business Network in Social Science Research Network E-Library (<http://www.ssrn.com>), 2005 – Present.
- Member of the Association for Computing Machinery (ACM). Chairperson (elected): ACM Special Interest Group on Office Information Systems (SIGOIS), July 1991 -- June 1995. Interim Vice-Chairperson (appointed): ACM SIGOIS, May 1990 -- June 1991. Past Chair: ACM SIGGROUP (formally SIGOIS), July 1995 - June 1999. Nomination committee chair: 1997 ACM SIGGROUP (formally SIGOIS) officers election.

- Member of the Association of Information Systems (AIS).
- Member of the Canadian Society for Computational Studies of Intelligence.
- Member of the IEEE (Institute of Electrical and Electronics Engineers) Computer Society.

*(b) Memberships on other societies, including offices held and dates*

- Canadian liaison for the North American Chinese Information System Professor Association (NACISPA), 1994 – 1996.

*(c) Memberships on scholarly committees, including offices held and dates*

- Conference co-chair (with Yair Wand), 29<sup>th</sup> International Conference on Conceptual Modeling (ER), Vancouver, Canada, Nov 1-4, 2010.
- Program co-chair:
  - (With Colette Rolland and Camille Salinesi) Second Workshop on Requirements, Intentions and Goals in Conceptual Modeling (RIGiM) at the 27<sup>th</sup> International Conference on Conceptual Modeling (ER), 2008.
  - (With Yves Pigneur) Business and IT Alignment Workshop (Busital) at the 18<sup>th</sup> International Conference on Advanced Information Systems Engineering (CAiSE), 2006.
  - (With John Mylopoulos) 14<sup>th</sup> International Conference on Advanced Information Systems Engineering (CAiSE), 2002.
  - (With Prabuddha De) Workshop on Information Technology Systems (WITS), 1994.
- Member of the Nominating Committee for the Board of Directors of National Science Foundation's (NSF's) Plant Science Cyberinfrastructure Collaborative (PSCIC) project, 2007 – 2008.
- Member of a National Science Foundation (NSF) research grant committee, U.S.A., 1998.
- (Due to personal reason, I decline to be on a National Science Foundation (NSF), U.S.A., research grant committee, 1997.)
- Program committee member:
  - 36<sup>th</sup> International Conference on Conceptual Modeling (ER 2017)
  - Evaluation and Modeling Methods for Systems Analysis and Development (EMMSAD 2017)
  - Conference on Business Informatics (CBI) 2016
  - 3rd International Workshop on Conceptual Modeling in Requirements and Business Analysis (MReBA'16)
  - 26th Workshop on Information Technology Systems (WITS'2016)
  - 35<sup>th</sup> International Conference on Conceptual Modeling (ER 2016)
  - ASDENCA 2016 - International Workshop on Advances in Services DEsign based on the Notion of CApabiliy
  - 25th Workshop on Information Technology Systems (WITS'2015)
  - Senior Program Committee member, 34<sup>th</sup> International Conference on Conceptual Modeling (ER 2015)
  - ASDENCA 2015 - International Workshop on Advances in Services DEsign based on the Notion of CApabiliy

- 24th Workshop on Information Technology Systems (WITS'2014)
- 33rd International Conference on Conceptual Modeling (ER 2014).
- ASDENCA 2014 - International Workshop on Advances in Services DEsign based on the Notion of CApabiliy
- 26th International Conference on Advanced Information Systems Engineering (CAiSE'14)
- EMMSAD'14 (Nineteen International Conference on Exploring Modeling Methods in Systems Analysis and Design)
- 23rd Workshop on Information Technology Systems (WITS'2013)
- 5th International Workshop on Requirements, Intentions, and Goals in Conceptual Modeling (RIGiM 2013)
- Demonstration co-chair, 32nd International Conference on Conceptual Modeling (ER 2013)
- Associate Editor, International Conference on Information Systems (ICIS 2013), project management and IS development track
- Track co-chair, Association for Information Systems (AIS) Pacific Asia Conference on Information Systems (PACIS 2014), Systems Analysis and Design
- 18th International Workshop on Exploring Modeling Methods in Systems Analysis and Design (EMMSAD'2012)
- 4th International Workshop on Requirements, Intentions and Goals in Conceptual Modeling (RIGiM'12)
- 22nd Workshop on Information Technology Systems (WITS'2012)
- 17th International Workshop on Exploring Modeling Methods in Systems Analysis and Design (EMMSAD'2011)
- International Workshop on Ontologies and Conceptual Modeling (Onto-Com 2011)
- Workshop on Requirements Engineering for Social Computing (RESC 2011, Trento, Italy)
- 4th IFIP WG 8.1 Working Conference on The Practice of Enterprise Modeling (Oslo, Norway on Nov 2-3 2011)
- 21th Workshop on Information Technology Systems (WITS'2011)
- Fifth International Workshop on Requirements Engineering for Services (REFS 2011)
- Fifth IEEE International Conference on Research Challenges in Information Science (RCIS 2011)
- 16th International Workshop on Exploring Modeling Methods in Systems Analysis and Design (EMMSAD'2011)
- 22th International Conference on Advanced Information Systems Engineering (CAiSE'2011)
- 20th Workshop on Information Technology Systems (WITS'2010)
- (Design Science Track Co-Chair) Americas Conference on Information Systems (AMCIS 2011)
- 21st Australasian Conference on Information Systems (ACIS'2010)
- Fourth International Conference on Research Challenges in Information Science (RCIS 2010)



- International Workshop on Goal-Based Business Process Engineering (WGBP 2010).
- 4th IEEE International Workshop on Requirements Engineering for Services (REFS 2010)
- Workshop on Business/IT Alignment and Interoperability (BUSITAL 2010)
- 15th International Workshop on Exploring Modeling Methods in Systems Analysis and Design (EMMSAD'2010)
- 21th International Conference on Advanced Information Systems Engineering (CAiSE'2010)
- 19th Workshop on Information Technology Systems (WITS'2009)
- IEEE International Conference on Services Computing (SCC 2009)
- Third Workshop on Requirements, Intentions and Goals in Conceptual Modeling (RIGiM) at the 28th International Conference on Conceptual Modeling (ER), 2009.
- Workshop on Business/IT Alignment and Interoperability (BUSITAL 2009)
- 20th International Conference on Advanced Information Systems Engineering (CAiSE'09)
- Third IEEE International Workshop on Requirements Engineering for Services (REFS 2009)
- 28th International Conference on Conceptual Modeling (ER 2009)
- (Associate Editor, Web-Based Information Systems and Applications Track) International Conference on Information Systems (ICIS'2009).
- 14th International Workshop on Exploring Modeling Methods in Systems Analysis and Design (EMMSAD'2009)
- 18th Workshop on Information Technology Systems (WITS'2008)
- (Associate Editor, Alternative Systems Development Track) International Conference on Information Systems (ICIS'2008).
- Second IEEE International Workshop on Requirements Engineering for Services (REFS 2008)
- IEEE International Conference on Services Computing (SCC 2008)
- 17th International Conference on Information Systems Development (ISD 2008)
- 13th International Workshop on Exploring Modeling Methods in Systems Analysis and Design (EMMSAD'2008)
- AIS SIGSAND European Symposium on Systems Analysis and Design 2008
- Workshop on Business/IT Alignment and Interoperability (BUSITAL 2008)
- 20th International Conference on Advanced Information Systems Engineering (CAiSE'08)
- 27th International Conference on Conceptual Modeling (ER 2008)
- International Workshop on Conceptual Modeling Approaches for e-Business (eCOMO), 2008.
- 17th Workshop on Information Technology Systems (WITS'2007)
- (Associate Editor, Design Science Track) International Conference on Information Systems (ICIS'2007).
- International Workshop on Agent Oriented Information Systems (AOIS'2007)
- Workshop on Business/IT Alignment and Interoperability (BUSITAL 2007)

- Workshop on Philosophical Foundations of Conceptual Modeling (PhiCoMo'2007)
- First IEEE International Workshop on Requirements Engineering for Services (REFS'2007)
- 12th International Workshop on Exploring Modeling Methods in Systems Analysis and Design (EMMSAD'2007)
- AIS SIGSAND American Symposium on Systems Analysis and Design 2007
- AIS SIGSAND European Symposium on Systems Analysis and Design 2007
- 16th International Conference on Information Systems Development (ISD 2007)
- IEEE International Conference on Services Computing (SCC 2007)
- 19th International Conference on Advanced Information Systems Engineering (CAiSE'07)
- 5th International Workshop on E-Business (Web2006)
- 16th Workshop on Information Technology Systems (WITS'2006)
- (Associate Editor, Design Science Track) International Conference on Information Systems (ICIS'2006).
- International Workshop on Agent Oriented Information Systems (AOIS'2006)
- AIS SIGSAND European Symposium on Systems Analysis and Design 2006
- 11th International Workshop on Exploring Modeling Methods in Systems Analysis and Design (EMMSAD'2006)
- IEEE International Conference on Services Computing (SCC 2006)
- 14th European Conference on Information Systems (ECIS'2006)
- 15th International Conference on Information Systems Development (ISD 2006)
- 4th International Workshop on E-Business (Web2005)
- 15th Workshop on Information Technology Systems (WITS'2005)
- International Workshop on Conceptual Modeling Approaches for e-Business (eCOMO), 2005.
- 10th International Workshop on Exploring Modeling Methods in Systems Analysis and Design (EMMSAD'2005)
- International Workshop on Agent Oriented Information Systems (AOIS'2005)
- 7th International Conference on Electronic Commerce (ICEC2005)
- 10th International Workshop on the Language-Action Perspective on Communication Modeling (LAP 2005)
- 3rd International Workshop on E-Business (Web2004)
- 14th Annual Information Systems Development: Bridging the Gap Between Academia and Industry (ISD 2005) Conference
- International Workshop on Conceptual Modeling Approaches for e-Business (eCOMO), 2004.
- 14th Workshop on Information Technology Systems (WITS'2004)
- 6th International Workshop on Agent Oriented Information Systems (AOIS'2004)
- 9th Workshop on Evaluation of Modeling Methods in Systems Analysis and Design (EMMSAD'04)
- 9th International Workshop on the Language-Action Perspective on Communication Modeling (LAP 2004)

- 13th Annual Information Systems Development: Advances in Theory, Practice, and Education (ISD 2004) Conference
- The 2<sup>nd</sup> Workshop on E-Business (WeB 2003)
- 13<sup>th</sup> Workshop on Information Technology Systems (WITS'2003)
- (Associate Editor) International Conference on Information Systems (ICIS'2003).
- International Workshop on Conceptual Modeling Approaches for e-Business (eCOMO), 2003.
- 5th International Workshop on Agent Oriented Information Systems (AOIS), 2003
- 8th International CAiSE/IFIP8.1 Workshop on Evaluation of Modeling Methods in Systems Analysis and Design (EMMSAD 2003)
- European Conference on Information Systems (ECIS 2003)
- 8th International Workshop on the Language-Action Perspective on Communication Modeling (LAP 2003)
- The 1st Workshop on E-Business (WeB 2002)
- International Workshop on Conceptual Modeling Approaches for e-Business (eCOMO), 2002.
- (Associate Editor) International Conference on Information Systems (ICIS'2002).
- 12th Workshop on Information Technology Systems (WITS'2002)
- Workshop on Agent Oriented Information Systems (AOIS), 2002
- 7th International Workshop on the Language-Action Perspective on Communication Modeling (LAP 2002)
- European Conference on Information Systems (ECIS 2002)
- INFORMS Conference on Information Systems and Technology (CIST-2001)
- 6th International Workshop on the Language-Action Perspective on Communication Modeling (LAP 2001)
- Workshop on Information Technology Systems (WITS'2001)
- (Associate Editor) International Conference on Information Systems (ICIS'2001).
- International Workshop on Conceptual Modeling Approaches for e-Business (eCOMO), 2001.
- "Novel Information Systems for B2B E-Commerce" minitrack for the HICSS conference, 2001.
- Workshop on Agent Oriented Information Systems (AOIS), 2001.
- Workshop on the Language/Action Perspective, 2000
- International Workshop on Conceptual Modeling Approaches for e-Business (eCOMO), 2000.
- Workshop on Agent Oriented Information Systems (AOIS), 2000.
- 6th International Conference on Re-Technologies for Information Systems (ReTIS), 1999.
- 4th IFCIS Conference on Cooperative Information Systems (CoopIS), 1999.
- Workshop on Agent Oriented Information Systems (AOIS), 1999.
- Workshop on the Language/Action Perspective, 1999
- Workshop on Information Technology Systems (WITS'99), 1999
- (Associate Editor) International Conference on Information Systems (ICIS'99).

- 3rd International Conference on Autonomous Agents (Agents'99).
- 17th International Conference on Conceptual Modeling (ER'98).
- Workshop on Information Technology Systems (WITS'98), 1998.
- Workshop on the Language/Action Perspective, 1998
- 3rd IFCIS Conference on Cooperative Information Systems (CoopIS), 1998.
- ACM International Conference on Supporting Group Work (GROUP'97), 1997.
- Workshop on Information Technology Systems (WITS'97), 1997.
- Workshop on the Language/Action Perspective, 1997
- 16th International Conference on Conceptual Modeling (ER'97).
- INFORMS Joint Conference on Information Systems and Technology, 1997.
- Workshop on the Language/Action Perspective, 1996
- INFORMS Joint Conference on Information Systems and Technology, 1996.
- The Fourteenth International Conference on The Object-Oriented & Entity Relationship Modelling (Formerly The Entity-Relationship Conference), 1995.
- Workshop on Information Technology Systems (WITS'95), 1995.
- 3rd International Conference on Cooperative Information Systems (CoopIS-95).
- ACM Conference on Organizational Computing Systems, 1995.
- 2nd International Conference on Cooperative Information Systems (CoopIS-94).
- Workshop on Information Technology Systems (WITS'93), 1993.
- Workshop on Information Technology Systems (WITS'92), 1992.
- ACM Conference on Organizational Computing Systems, 1991.
- ACM Conference on Office Information Systems, 1990.
- Local arrangement chair: International Conference on Information Systems, 1994.
- Conference committee member:
  - ACM Conference on Organizational Computing Systems, 1993.
  - ACM Conference on Computer Supported Cooperative Work, 1992, 1994.

*(d) Memberships on other committees, including offices held an dates*

- Dean's Advisory Committee for the Computer Systems Technology (CST) programs, British Columbia Institute of Technology (BCIT), 2000 - Present.

*(e) Editorships*

- Editorial board member, Journal on Data Semantics, Springer, 2016 – Present.
- Editorial board member, Business & Information Systems Engineering Journal (BISE), Springer, 2013 – 2016.
- Editorial board member, *Requirements Engineering Journal*, Springer, 2000 – Present.
- Editor, Information Technology and Systems eJournal (ITS), Social Science Research Network (SSRN), 2010 – Present.
- Guest Associate Editor, a special issue of *MIS Quarterly* on Business Intelligence Research, 2010-2011.
- Associate Editor, Association for Computing Machinery (ACM) Transactions on Management Information Systems (TMIS), 2009 – 2013.
- Editorial board member, a special issue of *MIS Quarterly* on Symbolic Action and Information Systems: Social Media and Beyond, 2011-2012.

- Associate Editor for a special issue of *MIS Quarterly* on Business Intelligence, 2010-2011.
- Associate Editor for a special issue of *MIS Quarterly* on design science research, 2006.
- Guest co-editor (with Taedong Han and Leon Zhao) of the Special Issue on the 2005 Workshop on Information Technology Systems (WITS'05), one issue titled "Information Technology and Systems in the Internet-Era" in *Decision Support Systems Journal* (Vol.45, No.4, November 2008) and one issue in *Information Technology and Management Journal*.
- Editorial board member, *Information and Management: The International Journal of Information Systems Applications*, Elsevier, 2004 – 2006.
- Editorial review board, *International Journal of Intelligent Information Technologies*, Idea Group, 2004 – Present.
- Guest co-editor (with John Mylopoulos) of the "Special Issue on the 14<sup>th</sup> International Conference on Advanced Information Systems Engineering (CAiSE'02)", *Information Systems: An International Journal* 29, 2 (April 2004) Elsevier Science, England.

(f) *Reviewer (journal, agency, etc., including dates)*

- ACM Computing Surveys.
- ACM Transactions on Computer-Human Interactions.
- ACM Transactions on (Office) Information Systems.
- British Columbia Science Council Grant Applications.
- Canadian Institutes of Health Research (CIHR) Collaborative Health Research Projects - NSERC Partnered Committee
- Communications of the ACM.
- Decision Support Systems, Elsevier Science Publishers, The Netherlands.
- European Journal of Information Systems
- Hong Kong Research Grants Council Applications
- IEEE Transactions on Engineering Management
- IEEE Transactions on Software Engineering
- IEEE Software
- Information Systems Research (ISR), INFORM
- International Journal of Cooperative Information Systems, Singapore: World Scientific Publishing Co
- International Journal of Human-Computer Studies.
- Information Systems, Elsevier Science.
- Information and Management
- Information Technology and Management Journal.
- Journal of Accounting, Management and Information Technologies.
- Journal of Association for Information Systems (JAIS)
- Journal of Database Management
- Journal of Organizational Computing and Electronic Commerce, Ablex Publishing Co., U.S.A.
- Management Information Systems Quarterly (MISQ)
- NSERC Individual Discovery (Operating) Grant Applications

- NSERC Strategic Grant Applications
- NSERC Collaborative Research and Development (CRD) Grant Applications
- NSERC College-University Idea-to-Innovation (CU-II2I) research grant applications
- Swiss National Science Foundation

(g) *External examiner (indicate universities and dates)*

- Patrick C. K. Hung, *Secure Workflow Model*, Ph.D. Thesis, Hong Kong University of Science and Technology, April 28, 2001.
- Henry Kim, *Representing and Reasoning About Quality Using Enterprise Models*, Ph.D. Thesis, University of Toronto, Canada, January 12, 1999.
- David M. Sundaram, *The Design and Implementation of an Integrated Model Management System*, Ph.D. Thesis, University of Auckland, New Zealand, November, 1997.
- Suarga Suarga, *Design and Implementation of Collective Bargaining Support System (CBSS) - A Web-Based Negotiation Support System*, Ph.D. Thesis, McMaster University, Ontario, Canada, July 15, 1997.

(h) *Consulting (indicate organization and dates)*

- Delivered two 4 hours tutorials on *Object-Oriented Enterprise Modelling* at B.C. Tel Mobility (Burnaby, B.C.) - November 27 and December 3, 1997.
- An inner core member (out of 19) of the UBC consultancy project to develop a new University in Kuwait, call Kuwait Institute of Business and Technology. Key responsibilities include designing curriculum and making recommendations for research and facility. Duration: August 2002 – January 2004.

(I) *Other service to the community*

- Co-organized (with Yair Wand) the AIS SIGSAND Symposium in Vancouver, June 1-2, 2012.
- Co-organized (with Roger Chiang and Andrew Gemino) the AIS SIGSAND Symposium in Vancouver, May 12-14, 2006.
- Organized the North West Summit on March 31, 2006, in Vancouver. This Summit gathers faculty members and graduate students from the University of British Columbia (both the Management Information Systems group and Information Studies group), Simon Fraser University (the Management Information Systems group), and University of Washington in Seattle (both the Management Information Systems group and Information School) to discuss research in the information systems area.
- Panelist, "Career Prospect in Information Technology and Price of Pursuing Graduate Degrees", Fairchild Forum, Fairchild Television, February 16, 2000.

## 12. AWARDS AND DISTINCTIONS

(a) *Awards for Teaching (indicate name of award, awarding organizations, date)*

- (2010/11: Nominated for the Commerce Undergraduate Society Teaching Excellence Award.)
- (2009/10: Nominated for the Commerce Undergraduate Society Teaching Excellence Award.)
- (2008/09: Nominated for the Commerce Undergraduate Society Teaching Excellence Award.)
- 2003/04: Commerce Undergraduate Society Teaching Excellence Award (Honourable Mention).
- (2001/02: Nominated for the MBA Professor of the Year Award.)
- (1996/97: Nominated for the Commerce Graduate Society Teaching Excellence Award and the Commerce Undergraduate Society Teaching Excellence Award.)

(b) *Awards for Scholarship (indicate name of award, awarding organizations, date)*

None.

(c) *Awards for Service (indicate name of award, awarding organizations, date)*

- Journal of Association for Information Systems (JAIS) Excellence in Reviewing - Honorable Mention.

(d) *Other Awards*

- A plaque given by the Association for Computing Machinery (ACM) in appreciation for outstanding service and devotion to ACM's special interest group on office information systems (SIGOIS), August 1995.

### **13. OTHER RELEVANT INFORMATION**

- Stanley Kwok Professor of Business (July 2003 – Present).
- Associate Member, Department of Computer Science, University of British Columbia, 1987 - Present. This entitles me to supervise Computer Science graduate students without the need of getting official approval from Faculty of Science.
- Member, Institute for Computing, Information and Cognitive Systems (ICICS), University of British Columbia, 2001 - 2014.
- Associate Member, Centre for Integrated Computer Systems Research (CICSR), University of British Columbia, 1993 - 2001.
- Visiting Scientist, The Centre for Advanced Studies, IBM Canada Ltd. Laboratory, Toronto, Canada, September - December, 1992.

# THE UNIVERSITY OF BRITISH COLUMBIA

## *Publications Record*

**Date:** March 31, 2017

**Initials:** CW

**SURNAME:** Woo

**FIRST NAME:** Carson

**MIDDLENAME(S):** Chia-Siang

### **1. REFEREED PUBLICATIONS**

#### *(a) Journals*

1. A. Taghavi and C. Woo, "The Role Clarity Framework to Improve Requirements Gathering", *ACM Transactions on Management Information Systems*, forthcoming.
2. M. Kaul, V.C. Storey, C. Woo, "A Framework for Managing Complexity in Information Systems", *Journal of Database Management* 28, 1 (2017), forthcoming.
3. S.N. Singh and C. Woo, "Investigating Business-IT Alignment through Multi-Disciplinary Goal Concepts", *Requirements Engineering* 14 (2009), Springer, 177-207.
4. P. Kruchten, C. Woo, K. Monu, and M. Sotoodeh, "A Conceptual Model of Disasters Encompassing Multiple Stakeholder Domains", *International Journal of Emergency Management* 5, 1/2 (2008), Switzerland: Inderscience Publishers, 25-56.
5. O. Arazy, and C. Woo, "Enhancing Information Retrieval through Statistical Natural Language Processing: A Study of Collocation Indexing", *Management Information Systems Quarterly (MISQ)* 31, 3 (September 2007), 525-546.
6. O. Arazy, and C. C. Woo, "Analysis and Design of Agent-Oriented Information Systems", *The Knowledge Engineering Review* 17, 3 (September 2002), Cambridge University Press, 215-260.
7. J. Tillquist, J. King, and C. Woo, "A Representational Scheme for Analyzing Information Technology and Interorganizational Dependency", *Management Information Systems Quarterly (MISQ)* 26, 2 (June 2002), 91-118.
8. G. De Michelis, E. Dubois, M. Jarke, F. Matthes, J. Mylopoulos, J.W. Schmidt, C. Woo, and E Yu, "A Three-Faceted View of Information Systems: The Challenge of Change", *Communications of the ACM* 41, 12 (December 1998), 64-70.
9. C. Martens and C.C. Woo, "OASIS: An Integrative Toolkit for Developing Autonomous Applications in Decentralized Environments", *Journal of Organizational Computing and Electronic Commerce* 7, 2 & 3 (1997), New Jersey: Ablex Publishing Co., 227-251.
10. L.A. Lau and C.C. Woo, "Is It Possible And Useful to Support Commitment Reasoning?", *International Journal of Cooperative Information Systems* 6, 2 (June 1997), Singapore: World Scientific Publishing Co., 193-216.
11. M.A. Janson and C.C. Woo, "A Speech Act Lexicon: An Alternative Use of Speech Act Theory in Information Systems", *Information Systems Journal* 6, 4 (October 1996), United Kingdom: Blackwell Science, 301-329.
12. Y. Wand, D.E. Monarchi, J. Parsons, and C.C. Woo, "Theoretical Foundations for Conceptual Modelling in Information Systems Development", *Decision Support Systems* 15 (1995), New York: Elsevier Science Publishers, 285-304.



13. M.A. Janson and C.C. Woo, "Comparing Information Systems Development Tools and Methods: Using Speech Act Theory", *Information and Management* 28, 1 (January 1995), New York: North Holland, 1-12.
14. M.K. Chang and C.C. Woo, "A Speech Act Based Negotiation Protocol: Design, Implementation, and Test Use", *ACM Transactions on Information Systems* 12, 4 (October 1994), 360-382.
15. T.H. Hofbauer, C.C. Woo, and C. Martens, "Decision Support Through Facilitating the Exchange of Experiences in a Distributed Environment", *International Journal of Intelligent and Cooperative Information Systems* 3, 3 (September 1994), Singapore: World Scientific Publishing Co., 255-278.
16. M.A. Janson, C.C. Woo, and L.D. Smith, "Information Systems Development and Communicative Action Theory", *Information and Management* 25, 2 (August 1993), New York: North Holland, 59-72.
17. C.C. Woo and M.K. Chang, "An Approach to Facilitate the Automation of Semi-Structured and Recurring Negotiations in Organizations", *Journal of Organizational Computing* 2, 1 (1992), New Jersey: Ablex Publishing Co., 47-76.
18. C.C. Woo and F.H. Lochovsky, "Knowledge Communication in Intelligent Information Systems", *International Journal on Intelligent and Cooperative Information Systems* 1, 1 (March 1992), Singapore: World Scientific Publishing Co., 203-228.
19. C.C. Woo and F.H. Lochovsky, "Supporting Distributed Office Problem Solving in Organizations", *ACM Transactions on Office Information Systems* 4, 3 (July 1986), 185-204.

(b) *Conference Proceedings*

1. M. Kaul, V.C. Storey, and C. Woo, "Domain Design Principles for Managing Complexity in Conceptual Modeling", *Proceedings of the Design Science Research in Information Systems and Technology – DESRIST 2017* (Karlsruhe, Germany, May 30 – June 1, 2017).
2. E. Paja, A. Maté, C. Woo, and J. Mylopoulos, "Can Goal Reasoning Techniques be used for Strategic Decision-Making?" *Proceedings of the 35th International Conference on Conceptual Modeling – ER 2016* (Gifu, Japan, Nov 14-17, 2016), Springer, 530-543.
3. A. Taghavi and C. Woo, "A Role Clarity Framework to Improve Requirements Gathering". *Proceedings of the 25th Workshop on Information Technologies and Systems* (Dallas, Texas, December 12-13, 2015).
4. Y. Gu, V. Storey, and C. Woo, "Conceptual Modeling for Financial Investment With Text Mining". *Proceedings of the 34th International Conference on Conceptual Modeling – ER 2015* (Stockholm, Sweden, October 19-22, 2015), Springer, 528-535.
5. C. Woo, A. Saghafi, and A. Rosales, "What is a Contribution to IS Design Science Knowledge?" *Proceedings of the Thirty Fifth International Conference on Information Systems (ICIS)*, Auckland, New Zealand, December 15-17, 2014.
6. S. Al-Natour and C. Woo, "The Determinants of Student Satisfaction with Online Video Presentations". *Proceedings of the 2014 International Conference SIGED:IAIM* (Auckland, New Zealand, December 14, 2014).
7. S. Singh, F. Sun, and C. Woo, "Designing UML Diagrams Using Goal-Based Concepts". *Proceedings of the 19th Workshop on Information Technologies and Systems – WITS'2009* (Phoenix, Arizona, December 14-15, 2009), 25-30.

8. K. Monu and C. Woo, "Conceptual Modeling in Disaster Planning Using Agent Constructs". *Proceedings of the 28<sup>th</sup> International Conference on Conceptual Modeling – ER 2009* (Gramado, Brazil, November 9-12, 2009), Springer, 374-386.
9. Y. Wand, C. Woo, and O. Wand, "Role and Request Based Conceptual Modeling – A Methodology and a CASE Tool". *Proceedings of the 27<sup>th</sup> International Conference on Conceptual Modeling* (Barcelona, Spain, October 20-24, 2008), Springer, 540-541.
10. S.N. Singh and C. Woo, "A Methodology for Discovering Goals at Different Organizational Levels". *Proceedings of the 3<sup>rd</sup> International Workshop on Business/IT Alignment and Interoperability* (BUSITAL'08, Montpellier, France, June 16-17, 2008), 16-30.
11. P. Kruchten, C. Woo, K. Monu, and M. Sotoodeh, "A Human-Centered Conceptual Model of Disasters Affecting Critical Infrastructures". *Proceedings of the 4<sup>th</sup> International Conference on Information Systems for Crisis Response and Management (ISCRAM)* (Delft, Netherlands, May 13-16, 2007), 327-344.
12. K. Monu, Y. Wand, and C. Woo, "Intelligent Agents as a Modelling Paradigm". *Proceedings of the International Conference on Information Systems (ICIS'2005, Las Vegas, December 12-14, 2005)*, 167-179.
13. S.N. Singh and C. Woo, "Exploring the Acquisition and Specification of Business Goals in Requirements Engineering". *Proceedings of the International Workshop on Requirements Engineering for Business Need and IT Alignment (REBNITA'2005, Paris, August 29-30, 2005)*, Australia: University of New South Wales Press (ISBN 0 7334 2276 4), 153-162.
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15. H. Guo and C. Woo, "A Goal Oriented and Decentrally Controlled Workflow Model for Facilitating Exception Handling". *Proceedings of the Twelve Workshop on Information Technologies and Systems (WITS'02, Barcelona, Spain, December 14-15, 2002)*, 133-138.
16. Y. Wand, C. Woo, and D. Jung, "Object-Oriented Modeling: From Enterprise Model to Logical Design". *Proceedings of the Tenth Workshop on Information Technologies and Systems (WITS'00, Brisbane, Australia, December 9-10, 2000)*, 25-30.
17. Y. Wand, C. Woo, and S. Hui, "Developing Business Models to Support Information System Evolution". *Proceedings of the Ninth Workshop on Information Technologies and Systems (WITS'99, Charlotte, North Carolina, December 11-12, 1999)*, 137-142.
18. Y. Wand, A. Gemino, and C. Woo, "An Empirical Comparison of Object Oriented and Data Flow Modeling". *Proceedings of the CaiSE/IFIP8.1 International Workshop on Evaluation of Modeling Methods in Systems Analysis and Design*, (Barcelona, Spain, June 16-17, 1997).
19. Y. Wand, and C.C. Woo, "Object-Oriented Analysis – Is it Really that Simple?". *Proceedings of the Third Workshop on Information Technologies and Systems (WITS'93)*, (Orlando, Florida, December 4-5, 1993), 186-195.
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22. F. Lu and C.C. Woo, "RECOs: A Request-Commitment Support Model". *Proceedings of the second International Society for Decision Support Systems (ISDSS) conference*, (Ulm, Germany, June 22-25, 1992).
23. M.K. Chang and C.C. Woo, "SANP: A Communication Level Protocol for Negotiations". *Decentralized AI 3* (Proceedings of the Third European Workshop on Modelling Autonomous Agents in a Multi Agent World, Kaiserslautern, Germany, August 5-7, 1991), edited by Y. Demazeau and E. Werner, Netherlands: Elsevier Science Publishers B.V., 1992, 31-54.
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25. Y. Wand and C.C. Woo, "An Approach to Formalizing Organizational Open Systems Concepts". *Proceedings of the (ACM & IEEE) Conference on Organizational Computing Systems*, (Atlanta, Georgia, November 5-8, 1991), 141-146.
26. F.H. Lochovsky, C.C. Woo, and L. Williams, "A Micro-Organizational Model for Supporting Knowledge Migration". *Proceedings of the (ACM & IEEE) Conference on Office Information Systems*, (Cambridge, Mass., April 25-27, 1990), 194-204.
27. C.C. Woo, "SACT: A Tool for Automating Semi-Structured Organizational Communication". *Proceedings of the (ACM & IEEE) Conference on Office Information Systems*, (Cambridge, Mass., April 25-27, 1990), 89-98.
28. C.C. Woo and F.H. Lochovsky, "Viewing Communication as a Problem Solving Activity: An Enrichment Towards Supporting Cooperative Office Work". *Proceedings of IFIP WG 8.4 Conference on Office Knowledge: Representation, Management and Utilization*, (Toronto, Ontario, August 17-19, 1987), 108-112. (The same paper was selected to appear in *IEEE Office Knowledge Engineering 1, 3*, which is a special issue on Office Knowledge Representation, Management and Utilization.)
29. C.C. Woo and F.H. Lochovsky, "Integrating Procedure-Automation and Problem-Solving Approaches to Supporting Office Work". In *Office Systems: Methods and Tools*, G. Bracchi and D. Tschritzis (eds.), North-Holland, 1987, 17-32.
30. C.C. Woo and F.H. Lochovsky, "Authorizations in a Computer-Based Office Information System". *Proceedings of the First IEEE Office Automation Conference*, (New Orleans, Louisiana, December 17-19, 1984), 81-90.
31. A. Lee, C.C. Woo, and F.H. Lochovsky, "Officeaid: An Integrated Document Management System". *Proceedings of the Second ACM Conference on Office Information Systems*, (Toronto, Ontario, June 1984), 170-180.
32. D. Tschritzis, S. Christodoulakis, P. Economopoulos, C. Faloutsos, A. Lee, D. Lee, J. Vandenbroek, and C. Woo, "A Multimedia Office Filing System". *Proceedings of the 10<sup>th</sup> International Conference on Very Large Data Bases*, November 1983, 2-7.
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(c) *Other*

None.

## 2. **NON-REFEREED PUBLICATIONS**

(a) *Journals*

None.

(b) *Conference Proceedings*

1. C. Woo, "The Role of Conceptual Modeling in Managing and Changing the Business". *Proceedings of the 30<sup>th</sup> International Conference on Conceptual Modeling* (ER'2011, Brussels, Belgium, Oct 31 – Nov 3, 2011), Springer, 1-12.
2. C.C. Woo, "The Business School Perspective". *Proceedings of the National Workshop on Software Engineering Education (NWSEE'93)*, (Toronto, Ontario, May 31, 1993), 162-163.

(c) *Other*

1. D.E. Mahling, C. Woo, R Blumenthal, H. Schlichter, and Th. Horstman, "Workflow = OIS? A Report of a Workshop at the CSCW'94 Conference". *ACM SIGOIS Bulletin* 16, 1 (August 1995), 59-64.
2. C.C. Woo and D. Mahling, "Survey and Tutorial Needs of SIGOIS". *ACM Computing Surveys*, (March 1995).
3. R.M., Helms, R. Marom, and C.C. Woo, "Decision Construction Set: A Personal Decision Support System". Technical Report TR-74.115, IBM Canada Laboratory, Toronto, Ontario, April 1993.
4. C.C. Woo and F.H. Lochovsky, "An Object-Based Approach to Modelling Office Work". *Data Base Engineering* 8, 4 (December 1995), IEEE Computer Society, 14-22.

## 3. **BOOKS**

(a) *Authored*

None.

(b) *Edited*

None.

(c) *Chapters*

1. K. Monu, V. Lemieux, L. Limonad, and C. Woo, "Using Conceptual Models to Theorize about the Relationship Between Records and Risk in the Global Financial Crisis". In *Financial Analysis and Risk Management: Data Governance, Analytics, and Life Cycle Management* (Victoria Lemieux editor), 73-98, Springer, 2013.
2. De Michelis, G., Dubois, E., Jarke, M., Matthes, F., Mylopoulos, J., Papazoglou, M., Pohl, K., Schmidt, J., Woo, C., and Yu, E., "Cooperative Information Systems: A Manifesto". In *Cooperative Information Systems: Trends & Directions*, Mike P. Papazoglou and Gunter Schlageter (eds.), Academic-Press, 1998, 315-363.
3. F.H. Lochovsky and C.C. Woo, "Role-Based Security in Data Base Management Systems". In *Database Security: Status and Prospectus*, C.E. Landwehr (ed.), North-Holland, 1988, 209-222.
4. C.C. Woo, F.H. Lochovsky, and A. Lee, "Document Management Systems". In *Office Automation: Concepts and Tools*, D. Tschritzis (ed.), Springer Verlag, 1985, 21-40.

#### 4. **PATENTS**

None.

#### 5. **SPECIAL COPYRIGHTS**

None.

#### 6. **ARTISTIC WORKS, PERFORMANCES, DESIGNS**

None.

#### 7. **OTHER WORKS**

1. The following three reports were generated from the PanCanadian Petroleum project. We did not assign working paper numbers because the reports are confidential. However, we expect to be able to extract publishable contents from them to generate at least two research papers:
  - (a) D. Jung, S. Hui, Y. Wand, and C. Woo, "An Introduction to the PanCanadian's Context Modeling Concepts", 1998.
  - (b) D. Jung, S. Hui, Y. Wand, and C. Woo, "The PanCanadian's Context Modeling Concepts: An Ontological Perspective", 1998.
  - (c) D. Jung, S. Hui, Y. Wand, and C. Woo, "The PanCanadian's Context Modeling Rules", 1998.
2. The following two reports were generated from the BC Tel Mobility research project. We did not assign working paper numbers because the reports contain confidential information and are not for public consumption yet. We are in the process of replacing specific BC Tel Mobility examples with fictitious ones so that they become publishable research papers:
  - (a) S. Hui, Y. Wand, and C. Woo, "Linking Existing Information Systems Architecture to the Business Model", 1999.

(b) S. Hui, Y. Wand, and C. Woo, “A Method for Constructing and Decomposing Business Models”, 1999.

## **8. WORK SUBMITTED**

1. W. Maaß, J. Parsons, S. Purao, V. Storey, and C. Woo, “Data-Driven and Theory-Driven Research in the Era of Big Data: Opportunities at the Intersection”, *Journal of Association for Information Systems (JAIS)* (submitted for second round review).
2. W. Maaß, J. Parsons, S. Purao, A. Rosales, V. Storey, and C. Woo, “Science in the Era of Big Data”, *Springer Nature Encyclopedia of Big Data* (submitted for first round review).
3. S. Al-Natour and C. Woo, “Online Video Presentations: Satisfaction Determinants with the Method”, *Information and Management* (revising for second round submission).
4. Monu, K., Wand, Y., and Woo, C. “The Organizational Actor as a Focus for Early Requirements Gathering: A Conceptual Agent Specification”, *Management Information Systems Quarterly (MISQ)* (revising for second round submission).

## **9. WORK IN PROGRESS**

1. Sun, W., Wand, Y, and Woo, C. “Towards a Consolidated View of Modeling in Information System Analysis”.
2. C. Woo and A. Rosales, “Viewing Design Science Research as Modeling”.
3. X. Xu, V. Storey, and C. Woo, “Narratives for Information Systems Design: Capturing Contextual Information”.
4. S. N. Singh and C. Woo, “An Approach that Systematically Utilizes Goal Based Concepts to Model UML Use-case and Class Diagrams”.