

THE UNIVERSITY OF BRITISH COLUMBIA
Curriculum Vitae for Faculty Members

DATE: 2019 November 05 INITIALS: **KSB**

1. SURNAME: Booth FIRST NAME: Kellogg MIDDLE NAME: Speed
2. DEPARTMENT / SCHOOL: Computer Science
3. FACULTY: Science
4. PRESENT RANK: Professor Emeritus SINCE: January 2017

5. POST-SECONDARY EDUCATION

University or Institution	Degree	Subject Area	Dates
California Institute of Technology	B.Sc.	Mathematics	1968
University of California, Berkeley	M.A.	Computer Science	1970
Universal Life Church	Mph.D.	Metaphysics	1974
University of California, Berkeley	Ph.D.	Computer Science	1975
University of British Columbia	Certificate	Workplace Bullying & Harassment	2014

Special Professional qualifications

6. EMPLOYMENT RECORD

(a) *Prior to coming to and concurrent with UBC*

University, Company or Organization	Rank or Title	Dates
Simon Fraser University	Adjunct Professor	2015-present
Graphics, Animation and New Media NCE Inc.	Scientific Director	2009-present
New Media Innovation Centre, Vancouver	Affiliate Scientist	2001-2002
University of Toronto	Adjunct Professor	2001-2002
University of Waterloo	Adjunct Professor	1990-1995
University of Waterloo	Professor	1986-1990
University of California, Santa Cruz	Visiting Assoc. Prof.	1985
University of Waterloo	Associate Professor	1981-86
Tektronix Laboratories	Visiting Scientist	1980
University of Waterloo	Assistant Professor	1977-81
UC Berkeley	Lecturer	1975-76
UC Davis	Lecturer	1974-76
Lawrence Livermore Laboratory	Computer Scientist	1968-76

(b) *At UBC*

Rank or Title	Dates
Professor Emeritus	January 2017 – present
Professor	August 1990 – December 2016
Director of MAGIC	August 1990 – June 2002

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

August 1990

7. LEAVES OF ABSENCE

University, Company or Organization at which Leave was taken	Type of Leave	Dates
University of California at Santa Cruz	Sabbatical	Sept '84-Aug '85
University of British Columbia	Administrative	July '96 –June '97
University of British Columbia	Administrative	July '01-June '02
University of British Columbia	Sabbatical	July '08-June '09

8. TEACHING

(a) Areas of special interest and accomplishments

Human-computer interaction, computer supported cooperative work, computer graphics, software systems, data structures and algorithms.

Ordained minister in the Universal Life Church since 1969.

(b) Courses Taught at UBC

Session	Course Number	Scheduled Hours	Class Size	Hours Taught			
				Lectures	Tutorials	Labs	Other
Winter 2 2015-2016	CPSC 448	None	3				
Winter 1 2015-2016	SCIE 112	3hrs/week	23	3/week			
Summer 2015	CPSC 448	None	4				
Winter 1 2012-2013	CPSC 260	3hrs/week	191	3/week			1
Winter 2 2011-2012	CPSC 260	3hrs/week	136	3/week			1
Winter 2 2010-2011	CPSC 260	3hrs/week	170	3/week			1
Winter 2 2009-2010	CPSC 260	3hrs/week	226	3/week			1
Winter 2 2008-2009	CPSC 530B	2hrs/week	5	2hrs/week			
Winter 2 2007-2008	CPSC 449	None	1				B.Sc. Thesis
Winter 2 2007-2008	CPSC 260	3hrs/week	188	3/week			1
Winter 1 2007-2008	CPSC 544	3hrs/week	15	3/week			
Winter 1 2007-2008	CPSC 260	3hrs/week	133	3/week			1
Winter 2 2006-2007	CPSC 260	3hrs/week	115	3/week			1
Winter 1 2006-2007	CPSC 260	3hrs/week	224	3/week			1
Winter 2 2005-2006	CPSC 260	3hrs/week	102	2/week			1
Winter 1 2005-2006	CPSC 260	3hrs/week	232	3/week			1
Winter 1 2004-2005	CPSC 252	4hrs/week	135	4/week			1
Winter 1 2004-2005	CPSC 544	3hrs/week	12	1/week			
Winter 2 2003-2004	CPSC 252	4hrs/week	140	4/week			1
Winter 1 2003-2004	CPSC 252	4hrs/week	70	2/week			1
Winter 2 2002-2003	CPSC 252	4hrs/week	71	2/week			1
Winter 1 2002-2003	CPSC 216	3hrs/week	86	2/week			1
Winter 2 2000-2001	CPSC 444	3hrs/week	44	2/week			
Winter 2 2000-2001	CPSC 449	None	3				B.Sc. Thesis
Winter 1 2000-2001	CPSC 544	3hrs/week	35	1/week			
Winter 1 2000-2001	CPSC 414	3hrs/week	93	2/week			
Winter 2 1999-2000	CPSC 448B (CPSC 444)	3hrs/week	12	2/week			
Winter 2 1999-2000	CPSC 449	None	2				B.Sc. Thesis
Winter 1 1999-2000	CPSC 544	3hrs/week	29	1/week			
Winter 1 1999-2000	CPSC 414	3hrs/week	100	2/week			

Winter 2 1998-1999	CPSC 448B (CPSC 444)	3hrs/week	9	1/week		
Winter 1 1998-1999	CPSC 414	3hrs/week	60	2/week		1hr/week
Winter 1 1998-1999	CPSC 544	3hrs/week	10	1/week		
Winter 2 1997-1998	CPSC 533b	3hrs/week	15	1/week		
Winter 2 1997-1998	CPSC 414	3hrs/week		3/week		1hr/week
Winter 1 1997-1998	CPSC 414	3hrs/week	56	3/week		1hr/week
Winter 2 1996-1997	CPSC 533b	3hrs/week	4	1/week		
Winter 2 1995-1996	CPSC 414	3hrs/week	71	2/week		1hr/week
Winter 2 1995-1996	CPSC 448		1			Directed Studies
Winter 1-2 1995-1996	CPSC 319	1hr/week	165	1/week		1hr/week
Winter 1 1995-1996	CPSC 414	3hrs/week	65	3/week		1hr/week
Winter 2 1995-1996	CPSC 533c	3hrs/week	6	1/week		
Winter 2 1994-1995	CPSC 533b	3hrs/week	7	1/week		
Winter 1-2 1994-1995	CPSC 319	1hr/week	170	1/week		1hr/week
Winter 2 1993-1994	CPSC 533b	3hrs/week	12	1/week		
Winter 1-2 1993-94	CPSC 319	1hr/week	165	1/week		1hr/week
Winter 2 1992-1993	CPSC 533b	3hrs/wk	22	1/week		
Winter 1-2 1992-93	CPSC 319	1hr/week	160	1/week		1hr/week
Winter 2 1991-1992	CPSC 514	3hrs/week	14	2/week		
Winter 2 1991-1992	CPSC 448	None	3	None		Directed Studies
Winter 1-2 1991-1992	CPSC 319	1hr/week	108	1/week		
Winter 1 1991-1992	CPSC 448	None	1	None		Directed Studies
Winter 2 1990-1991	CPSC 514	3hrs/week	14	2/week		
Winter 1-2 1990-1991	CPSC 319	1hr/week	120	1/week		

(c) Graduate Students Supervised

Student Name	Program Type	Year		Principal Supervisor	Co-Supervisor(s)
		Start	End		
Derek Cormier	M.Sc.	2014	2016	Dr. K.S. Booth	
Izabelle Janzen	M.Sc.	2014	2016	Dr. K.S. Booth	
Francisco Escalona	M.Sc.	2014	2015	Dr. K.S. Booth	
Peter Beshai	M.Sc.	2013	2014	Dr. K.S. Booth	
Orkhan Muradov	M.Sc.	2012	2013	Dr. K.S. Booth	
Junhao Shi	M.Sc.	2012	2013	Dr. K.S. Booth	
Juliette Link	M.Sc.	2011	2013	Dr. J.L. McGrenere	Dr. K.S. Booth
Huan Li	M.Sc.	2011	2014	Dr. K.S. Booth	
Nuray Dindar	M.Sc.	2011	2012	Dr. K.S. Booth	
Vasanth Rajendran	M.Sc.	2011	2012	Dr. K.S. Booth	
Jeff Hendy	Ph.D.	2010	(ex)	Dr. J.L. McGrenere	Dr. K.S. Booth
Syavash Nobarany	Ph.D.	2010	2015	Dr. K.S. Booth	
Tao Su	M.Sc.	2010	2011	Dr. K.S. Booth	Prof. R. Kellett
Garth Shoemaker	Ph.D.	2006	2010	Dr. K.S. Booth	
Jennifer Fernquist	M.Sc.	2009	2010	Dr. K.S. Booth	Dr. A.J. Mackworth
Russell MacKenzie	M.Sc.	2009	2010	Dr. K.S. Booth	
Jeff Hendy	M.Sc.	2007	2009	Dr. J.L. McGrenere	Dr. K.S. Booth
Evgeny Maksakov	M.Sc.	2007	2009	Dr. K.S. Booth	

Joel Lanir	Ph.D.	2006	2009	Dr. K.S. Booth	
Clarence Chan	M.Sc.	2006	2009	Dr. K.S. Booth	
Ying Zheng		2005	2008	Dr. K.S. Booth	Dr. B.D. Fisher
Sherman Lai	M.Sc.	2005	2008	Dr. K.S. Booth	Dr. Villy Christensen
Zhangbo Liu	M.Sc.	2005	2007	Dr. K.S. Booth	
Ritchie Argue (Dalhousie)	M.C.S.	2004	2007	Dr. K. Inkpen	Dr. K.S. Booth
Nicole Arksey	M.Sc.	2005	2007	Dr. K.S. Booth	Dr. R. Lea
Yamin Htun	M.Sc.	2005	2007	Dr. J.L. McGrenere	Dr. K.S. Booth
Colin Swindells	Ph.D.	2002	2007	Dr. K.E. MacLean	Dr. K.S. Booth
David Sprague	M.Sc.	2003	2006	Dr. K.S. Booth	
Qixing Zheng	M.Sc.	2003	2006	Dr. J.L. McGrenere	Dr. K.S. Booth
Lior Berry	M.Sc.	2003	2005	Dr. K.S. Booth	Dr. L.R. Bartram
Barry Po	Ph.D.	2002	2005	Dr. K.S. Booth	
Mark Hancock	M.Sc.	2002	2004	Dr. K.S. Booth	
Barry Po	M.Sc.	2001	2002	Dr. K.S. Booth	Dr. B.D. Fisher
William Gates	Ph.D.	2000	2002	Dr. A. Fournier	Dr. K.S. Booth (acting supervisor)
Alexander Stevenson	M.Sc.	2000	2001	Dr. K.S. Booth	
Jason Harrison	Ph.D.	2000	2001	Dr. K. S. Booth Dr. J. Little	
David Martindale	Ph.D.	2000	2002	Dr. A. Fournier	Dr. K.S. Booth (acting supervisor)
Davor Cubranic	Ph.D.	1998	2004	Dr. K.S. Booth Dr. G.M. Murphy	
Joanna McGrenere (UofT)	Ph.D.	1998	2002	Dr. R.M. Baecker Dr. K.S. Booth	
Anne Lavergne	M.Sc.	1998	1999	Dr. K.S. Booth Dr. D. Lowe	
Davor Cubranic	M.Sc.	1997	1998	Dr. K.S. Booth	
Carolyn Wick	M.Sc.	1996	1999	Dr. K.S. Booth	
Steven Page	M.Sc.	1996	1997	Dr. K.S. Booth	
Joanna McGrenere	M.Sc.	1994	1996	Dr. M. Klawe	Dr. K.S. Booth
James Boritz	Ph. D.	1993	1998	Dr. K.S. Booth	
Kori Inkpen	Ph. D.	1993	1997	Dr. K.S. Booth Dr. M. Klawe	
Brian Pidcock	M.Sc.	1993	1994	Dr. K.S. Booth	Dr. J. Werker
Torre D. Zuk	M.Sc.	1993	1994	Dr. S. Atkins Dr. K.S. Booth	
Valerie Summers	Ph.D.	1993	(ex)	Dr. K.S. Booth Dr. T.W. Calvert	
Christopher Healey	Ph.D.	1992	1996	Dr. K.S. Booth Dr. J. Enns	
Kirk Marple	M.Sc.	1992	1996	Dr. K.S. Booth	
Brian Johnston	M.Sc.	1992	1994	Dr. S. Atkins Dr. K.S. Booth	
Gary MacIsaac	M.Sc.	1992	1994	Dr. K.S. Booth Dr. P. Graf	
William Scott Flinn	Ph.D.	1992	(ex)	Dr. K.S. Booth	
Robert Scharein	Ph.D.	1991	1998	Dr. K.S. Booth Dr. J. Little	
Kevin Arthur	M.Sc.	1991	1993	Dr. K.S. Booth	

				Dr. C. Ware	
Andrew Csinger	Ph.D.	1990	1995	Dr. K.S. Booth Dr.D.L. Poole	
Christopher Healey	M.Sc.	1990	1992	Dr. K.S. Booth Dr. J. Enns	Dr. P. Leblond
Stanley Jang	M.Sc.	1990	1992	Dr. K.S. Booth Dr. D.R. Forsey	
William Scott Flinn	M.Math.	1990	1992	Dr. K.S. Booth Dr. W.B. Cowan	
James Boritz	M.Math.	1988	1990	Dr. K.S. Booth Dr. W.B. Cowan	
Guno Sutiono	M.Math.	1987	1989	Dr. K.S. Booth	
Frankie K-T. Sun	M.Math.	1987	1989	Dr. K.S. Booth Dr. W.B. Cowan	
Jeffrey V. Kelley	M.Math..	1986	1988	Dr. K.S. Booth Dr. M. Wein	
Arthur A. Schultz	M.Math.	1986	1988	Dr. K.S. Booth	
Shawn R. Neely	M.Math.	1986	1988	Dr. K.S. Booth	
J. David MacDonald	M.Math.	1986	1988	Dr. K.S. Booth	
David R. Forsey	Ph.D.	1985	1990	Dr. R.H. Bartels Dr. K.S. Booth	
Karen D. Zeitler	M.Math.	1985	1987	Dr. K.S. Booth	
W. Victoria Wong	M.Math.	1985	1987	Dr. K.S. Booth	Dr. J.C. Beatty Dr. W.B. Cowan
Stephen A. Williams	M.Math.	1985	1987	Dr. K.S. Booth	
John Chapman	M.Math.	1985	1986	Dr. K.S. Booth	
R. Victor Klassen	Ph.D.	1984	1989	Dr. K.S. Booth Dr. W.B. Cowan	
Brian L. Plante	M.Math.	1984	1986	Dr. K.S. Booth	
Terrence M. Higgins	M.Math.	1984	1986	Dr. K.S. Booth	
David R. Forsey	M.Math.	1983	1985	Dr. K.S. Booth	Dr. W.B. Cowan
Robert A. Krieger	M.Math.	1983	1985	Dr. K.S. Booth	
Alan W. Paeth	M.Math.	1983	1985	Dr. K.S. Booth	
Michael F. Morgan	M.Math	1983	1985	Dr. K.S. Booth	
Richard J. Beach	Ph.D.	1982	1985	Dr. K.S. Booth Dr. J.C. Beatty	
Mert Cramer	M.Math.	1982	1984	Dr. K.S. Booth	
Sylvia C. Lea	M.Math.	1981	1983	Dr. K.S. Booth	
Doris H.U. Kochanek	M.Math.	1980	1982	Dr. K.S. Booth	
Darlene A. Plebon	M.Math.	1980	1982	Dr. K.S. Booth	
Baldev Singh	M.Math.	1980	1982	Dr. J.C. Beatty Dr. K.S. Booth	
Stephen A. MacKay	M.Math.	1980	1982	Dr. K.S. Booth	
Douglas J. Keenan	M.Math.	1980	1982	Dr. A. Adamson Dr. K.S. Booth	
Catherine H. Johnson	M.Math.	1980	1982	Dr. K.S. Booth	
R.V. Pablo Alliende	M.Math.	1980	1982	Dr. K.S. Booth	
Lawrence H. Matthies	M.Math.	1979	1981	Dr. K.S. Booth Dr. J.C. Beatty	
James S. Diamond	M.Math.	1979	1981	Dr. K.S. Booth	

Harry Yuen	M.Math.	1979	1980	Dr. K.S. Booth	
Joseph H. Buccino	M.Math.	1979	1980	Dr. K.S. Booth	
Robert Dunn	M.Math.	1977	1978	Dr. K.S. Booth	
L. Rex Benning	M.Math.	1977	1978	Dr. K.S. Booth	
Dolores M. Panek	M.Math.	1977	1977	Dr. K.S. Booth	
Charles J. Colbourn	M.Math.	1977	1977	Dr. K.S. Booth	

(d) Graduate Supervisory Committees

Kelly J. Burke	Ph.S.	Library, Archival and Information Studies
Jessica Bushey	Ph.D.	Library, Archival and Information Studies
Roberto Calderon	Ph.D.	Independent Interdisciplinary Studies Graduate Program
Tony Tang	Ph.D.	Electrical and Computer Engineering, UBC
Regan Mandryk	Ph.D.	Computing Science, SFU
Timothy Chen	M.A.Sc.	Electrical and Computer Engineering, UBC
Colin Swindells	M.Sc.	Computing Science, SFU
Masuma Walji	M.Sc.	Kinesiology, SFU
Arnab Guha	Ph.D.	English Dept.
Antonietta Rivera	Ph.D.	Independent Interdisciplinary Studies Graduate Program
Regan Mandryk	M.A.Sc.	Kinesiology, SFU
Yan Wang	Ph.D.	Kinesiology, SFU
Bonnie Sawatzky	Ph.D.	Kinesiology, SFU
Fui-hoon Nah	Ph.D.	Commerce
Kate Collie	M.Sc.	Counselling Psychology

(e) Continuing Education Activities**(f) Visiting Lecturer (indicate university/organization and dates)****(g) Other****9. SCHOLARLY AND PROFESSIONAL ACTIVITIES****(a) Areas of special interest and accomplishments**

Human-computer interaction, computer supported cooperative work, computer graphics, software systems, data structures and algorithms.

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

Agency	Title	COMP	\$/yr	Year	PI	Co-investigator(s)
NSERC Engage Grant	Collaborative visualization tools for urban design	C	25,000	17-17	K.S. Booth	
NSERC Discovery Grant	Collaboration technology and multi-user interfaces	C	31,000 31,000 31,000 31,000	16-17 17-18 18-19 19-20 20-21	K.S. Booth	
NSERC Strategic Project Grant	Data-driven knowledge mobilization,	C	249,000 249,000 249,000	15-16 16-17 17-18 18-19	K. A. Lyons	K.S. Booth R.J. Miller E. Stroulia

	translation & innovation					
Mindset Social Innovation Foundation	Open Health Initiative	N	94,4019	13	K.S. Booth	
CIHR Planning Grant	Planning to develop the research program VICToRS: Virtual Interprofessional Case-learning Tools for improving Real Service.	C	25,000	12-13	W.V. Norman	H Carnahan J Kaczorowski K Booth L Currie R Eagleson S King S Dunn J Scott-Parker
UBC TLEF Grant	VIP-CARES: Creating and Evaluating – Interprofessional Virtual Patient Cases in Family Planning Topics.	C	86,031	12-13	W.V. Norman	L Currie C Ellis J Soon
NSERC Strategic Project Grant	IDEAS2.0: Integrative Data-Enabled Approaches to Sustainability across Scales	C	147,920 156,670 148,170	11-12 12-13 13-14 14-15	S.A.S. Staub-French	K.S. Booth R.W. Kellett R.A. Pottinger M.W. Senbel
UBC TLEF Grant	VIP-CARES: Virtual Interprofessional Patients as Contraception & Abortion Resources for Education of Students	C	57,017	11-12	W.V. Norman	KS Booth L Currie J Soon S Vedam
NSERC Discovery Grant	Collaboration technology and multi-user interfaces	C	42,000 42,000 42,000 42,000 42,000	11-12 12-13 13-14 14-15 15-16	K.S. Booth	
NSERC Discovery Grant	Collaboration technology and multi-user interfaces	C	31,000	10-11	K.S. Booth	
NCE Network of Centres of Excellence	GRAND: Graphics, Animation and New Media Canada (Graphisme, Animation et Nouveau Média Canada)	C	4,650,000 4,650,000 4,650,000 4,650,000 4,650,000	10 11 12 13 14	K.S. Booth	49 others

NSERC Strategic Project Grant	ARTIFACT: Advanced research, techniques, and informatics for future advantages in Construction Technology	C	147,500 147,500 147,500	06-07 07-08 08-09 09-10	S.A.S. Staub-French	K.S. Booth R.A. Pottinger M.K. Tory
NSERC RTI	Direct multi-touch interaction for a very large wall display	C	113,000	06-07	K.S. Booth	V. Christensen, S.S. Fels L.A. Iverson J.R. Marti A. Sheffer S.R.J. Sheppard M. van de Panne
NSERC / PSEPC JIIRP	Decision coordination for critical linkages in a national network of infrastructures	C	340,000 340,000 340,000	05-06 06-07 07-08	J.R. Marti	L.R. Bartram K.V. Beznosov K.S. Booth J. Jatskevich J.J. Joyce P. Kruchten K. Molloy T. Munzner G. Poole R.S. Rosenberg K.D. Srivastava C.E. Ventura C.C. Woo
NSERC Discovery Grant	Collaboration technology and multi-user interfaces	C	59,000 59,000 59,000 59,000 59,000	05-06 06-07 07-08 08-09 09-10	K.S. Booth	
NSERC Research Network Grant	NECTAR - Network for Effective Collaboration Technologies through Advanced Research	C	\$5.5M	04-08	R.M. Baecker	R. Balakrishnan K.S. Booth S. Carpendale N. Graham, S. Greenberg C. Gutwin K.M. Inkpen J. McGrenere G. Penn K.N. Plataniotis S. Subramanian, E. Toms R. Vertegaal
NSERC Discovery Grant	Interactive computer graphics	C	54,863 54,863 54,863 54,863	04-05 03-04 02-03 01-02	K.S. Booth	
CFI	Institute for Computing, Information, and Cognitive Systems	C	437,000 8,579,000 8,607,000 4,514,000	04-05 03-04 02-03 01-02	R.K. Ward	K.S. Booth D. Cherchas C. De Silva S. Fels

						V. Leung A. Mackworth R. Ng D. Pai N. Pippenger T. Salcudean
NSERC Strategic	Collaborative visualization for time- and safety-critical situations	C	76,275 88,327 86,920	03-03 02-02 01-01	K.S. Booth	J.C. Dill J.T. Enns B.D. Fisher K.E. MacLean R.A. Rensink
NSERC Individual Research Grant	Interactive Computer Graphics	C	54,863 54,863 52,250 47,500 47,500	00-01 99-00 98-99 97-98 96-97	K.S. Booth	
NSERC Equipment	Haptic interface and glove for interaction in virtual environments		43,818	00-01	D. Pai	K.S. Booth A. Fournier
NSERC Strategic	Virtual and augmented environments for surgery, remote manipulation, design & training	C	97,670 97,902 156,219 120,218 210,061	02-03 01-02 00-01 99-00 98-99	C.L. Mackenzie	K.S. Booth J.C. Dill K. Inkpen S. Payendah
NSERC Equipment	Video capture and analysis for software usage studies	C	48,073	99-99	K.S. Booth	K. Inkpen G.C. Murphy
NCE: TeleLearning Research Network	Constructing Knowledge in Media-Rich Environments	C	100,000	99-00	M. Klawe	R.M. Baecker K.S. Booth R. Goldman-Segall K. Inkpen J. Zilber
BC Advanced Systems Institute	Calibration model for head-coupled stereo displays	C	20,000	99-00	K.S. Booth	
Sun Microsystems Canada	Virtual and Augmented Reality Systems	N/C	50,000 \$US	99-00	K.S. Booth	
UBC Teaching & Learning Enhancement Fund	The Art and Science of Visual Perception: A Laboratory on the World Wide Web	C	36,000	99-00	J. Enns	K.S. Booth
UBC Faculty of Education Incubator Research Grant	TeleHealth: Wellness and Health Education	C	14,997 14,959 14,959	99-01	B.C. Long	L. Stanley M. Arvay K.S. Booth J. Bates J. Gilbert R. Wilson D. Mitchell

NSERC Equipment	Large Scale Storage and Analysis of Medical and Computer Generated Images	C	39,919	98-99	A. Fournier	K.S. Booth P. Cahoon D.R. Forsey
NSERC Equipment	Robust, Efficient, Scientific Computation and Visualization	C	111,164	97-98	U. Ascher	K.S. Booth P. Cahoon A. Fournier A. Pierce J.M. Varah B. Wetton
NSERC Equipment	High Performance Graphics Upgrade	C	13,110	96-97	K.S. Booth	P. Cahoon
NSERC Strategic	Integration of Computer-Based Animation	C	96,000 96,000 96,000	95-96 96-97 97-98	A. Fournier	K.S. Booth D.R. Forsey P. Cahoon
NSERC Equipment	Digital Storage and Video Editing for Computer-Based Animation	C	18,100	95-96	A. Fournier	K.S. Booth D.R. Forsey P. Cahoon
NCE: TeleLearning Research Network	Theme 3	C	5,230 8,970 8,970 18,225 69,000	95-96 96-97 97-98 98-99 99-00	K.S. Booth	C. Frasson
NCE: TeleLearning Research Network	Theme 3: Workshop	C	13,845	98-99	K.S. Booth	C. Frasson
NCE: TeleLearning Research Network	Project 3.2: Collaboration, Telepresence and Networked Games	C	11,770 20,190 20,190 15,142	95-96 96-97 97-98 98-99	K.S. Booth	M. Klawe R.M. Baecker M. Chignell
NCE: TeleLearning Research Network	Project 3.3: Integrative Activities	C	7,500	98-99	K.S. Booth	
NCE: TeleLearning Research Network	Theme 4 - K-12 Knowledge-Building Communities. Project 4.4 - Tele-EGEMS: Educational Games in TeleLearning Environments	C	34,790 59,660 59,660 59,660	95-96 96-97 97-98 98-99	M. Klawe	K.S. Booth
NCE: IRIS	A Cognitive Basis for the Design of Knowledge-Based Interfaces	C	27,700 26,151 26,151	94-95 95-96 96-97	T. Calvert	K.S. Booth

NSERC Equipment Grant	Computer Graphics and Computational Geometry Laboratory Renewal	C	69,713	95-96	K.S. Booth	D.R. Forsey A. Fournier D.G. Kirkpatrick J. Snoeyink
NSERC Strategic Grant	Interactive Stereo Computer Graphics Environments	C	86,000 87,000 87,000	95-96 96-97 97-98	C. Ware	L. Mayer K.S. Booth
MRC Research Grant	3-D Analysis of Scoliosis Surgery Using Stereophotogrammetry	C	33,882 33,882 33,882 3,500	95-96 96-97 97-98 1998	S.J. Tredwell	K.S. Booth
Silicon Graphics, Inc.	Donation of Hardware	NC	224,168	95	M. Klawe	K.S. Booth
Newbridge Networks Corp.	ATM Switch	NC	28,000	95	K.S. Booth	
NSERC Strategic Grant	Virtual and Augmented Environments for Surgery, Remote Manipulation, Design and Training	C	216,661 126,818 162,819 104,502 104,270	98-99 99-00 00-01 01-02 02-03	C.L. MacKenzie	K.S. Booth J.C. Dill K. Inkpen S. Payandeh
B.C. Advanced Systems Institute	Fellowship in Computer Graphics	C	18,167 18,167 18,167	92-93 93-94 94-95	K.S. Booth	
UBC Department of Orthopaedics	Vertebral Kinematics Following Cotrel-Dubousset Instrumentation for Scoliosis Using Stereophotogrammetry	C	24,548	94-95	S.J. Tredwell	K.S. Booth
NSERC CRD Grant	HCI Research in Interactive Multimedia for Learning Mathematics	C	150,000 150,000 150,000	94-95 95-96 96-97	M. Klawe	A.G. Anderson K.S. Booth R. Uptis
R.C.M.P. Equipment Grant	Forensic Craniofacial Reconstruction	NC	5,000 5,000	93-94 94-95	A.G. Hannam	K.S. Booth P. Cahoon D.R. Forsey
Centre for Image & Sound Research - VISTA	Laboratory Graduate Fellowship for J. Wu	NC	15,000	93-95	K.S. Booth A. Fournier	
NSERC Equipment	Optical Disk Jukebox Storage for 3-D Visualization	C	26,392	92-93	K.S. Booth	A. Fournier D.R. Forsey

Ministry of Advanced Education & Training - Province of B.C. Ministry of Employment & Investment - Prov. of B.C.	Media & Graphics Interdisciplinary Centre (MAGIC)	NC	125,000 132,500 140,450 148,877 158,000 158,000 158,000 150,000 100,000 50,000	90-91 91-92 92-93 93-94 94-95 95-96 96-97 97-98 98-99 99-00	K.S. Booth	
Alias Research, Inc.	Donation of Software	NC	712,762.	91	M. Klawe	K.S. Booth
Wavefront Technologies	Donation of Software	NC	186,800	91	M. Klawe	K.S. Booth
Alias Research, Inc.	Industrial Partners Fund for MAGIC	NC	12,500	90-91	K.S. Booth	
IBM Canada	Industrial Partners Fund for MAGIC	NC	12,500	91-92	K.S. Booth	
Wavefront Technologies	Industrial Partners Fund for MAGIC	NC	12,500	91-92	K.S. Booth	
B.C. Hydro	Hydro System Simulation Project	NC	25,000 25,000	92-93	K.S. Booth	S.O. Russell
UBC/NSERC Equipment	Multimedia Laboratory	NC	30,000	91-92	K.S. Booth	
UBC Research Development Fund	Start-up Equipment	NC	16,667	91-92	K.S. Booth	
NSERC Operating	Complexity of Algorithms for Recognizing and Testing Isomorphism of Certain Classes of Graphs, later retitled Graph Algorithms / Interactive Graphics	C	40,455 44,501 47,295 40,000	84-86 86-89 89-92 92-95	K.S. Booth	
B.C. Medical Services Fdn.	The Kinematic Changes of Individual Vertebrae During Cotrel-Dubousset Instrumentation	C	43,688	94	S.J. Tredwell	K.S. Booth
NSERC Strategic	3-D Hand-Centred Input Techniques	C	89,760 89,048 89,878	93-94 94-95 95-96	K.S. Booth	T.W. Calver J.C. Dill D.R. Forsey C.L. MacKenzie R.G. Marteniuk

NSERC Strategic	Logging, Annotation and Navigation for Hypermedia Video Analysis Tools	C	102,060 103,726 107,449	92-93 93-94 94-95	K.S. Booth	D.A. Baldwin R. Goldman-Segall R.C. Goldstein R.T. Ng S. Rao G.B. Sinclair C.C. Woo
NSERC Strategic Equipment	Enhancements for a Hypermedia Video Server	C	39,880	92	K.S. Booth	R. Goldman-Segall R.C. Goldstein R.T. Ng S. Rao G.B. Sinclair C.C. Woo

NSERC Strategic	Task-Oriented Performance Studies on Computer Workstations	C	127,785 133,814 138,165	88-89 89-90 90-91	K.S. Booth	M.P. Bryden W.B. Cowan P.P. Tanner P. Jolicoeur
NSERC Strategic Equipment	Workstation Enhancements for Task-Oriented Performance Studies	C	46,778	88	K.S. Booth	M.P. Bryden W.B. Cowan P.P. Tanner P. Jolicoeur
NSERC Strategic Equipment	Computer-Aided Design, Display and Animation Using Splines	C	57,447	86-87	R.H. Bartels	J.C. Beatty K.S. Booth W.B. Cowan J.H.G. Howard P. Jolicoeur
NSERC Strategic	Effective Interactive Computer Graphics in Workstation Environment	C	156,890 160,346 166,138	85-86 86-87 87-88	K.S. Booth	R.H. Bartels J.C. Beatty M.P. Bryden W.B. Cowan D.E. Field P. Jolicoeur
NSERC Strategic Equipment	Workstations for Interactive Computer Graphics	C	224,900	85-86	K.S. Booth	R.H. Bartels J.C. Beatty M.P. Bryden W.B. Cowan D.E. Field P. Jolicoeur
NSERC Strategic	2-D and 3-D Interactive Computer Graphics Modeling Systems	C	55,776 69,251 73,406	81-82 82-83 83-84	K.S. Booth	R.H. Bartels J.C. Beatty
NSERC Strategic Equipment	2-D and 3-D Interactive Computer Graphics Modeling Systems	C	111,201	81-82	K.S. Booth	R.H. Bartels J.C. Beatty
NSERC Strategic	Portable Software Tools for Networks of Personal Computer Workstations	C	70,000 78,470 83,178	81-82 82-83 83-84	M.A. Malcolm	J.C. Beatty K.S. Booth

NSERC Strategic Equipment	Network Server and Personal Computer Workstations	C	68,800 51,600 36,100	81-82 82-83 83-84	M.A. Malcolm	J.C. Beatty K.S. Booth
Information Technology Research Centre	Characteristics of the Human Vision System	C	103,000	89-91	K.S. Booth	J.C. Beatty W.B. Cowan
Province of Ontario University Incentive Research Fund (URIF)	Workstation-Based Computer Graphics	C	40,000 60,000 60,000	88-89 89-90 90-91	K.S. Booth	R.H. Bartels J.C. Beatty W.B. Cowan R.N. Goldman
DEC Canada external research project	Workstation-Based Computer Graphics	C	40,000 60,000 60,000	88 89 90	K.S. Booth	R.H. Bartels J.C. Beatty W.B. Cowan R.N. Goldman
Information Technology Research Centre	Characteristics of the Human Vision System	C	75,000	88-89	K.S. Booth	R.M. Baecker J.C. Beatty W.B. Cowan
SSHRC	A Computer Editor for Benesh Movement Notation	C	13,124 23,345	84-85 85-86	R.S. Ryman	J.C. Beatty K.S. Booth
WATFUND	Computer Graphics Research - Schlumberger-Doll Research	C	18,750	83-84	J.C. Beatty	R.H. Bartels K.S. Booth
Apple Canada	Macintosh Workstations for Benesh Development	C	24,430	85	J.C. Beatty	K.S. Booth R.S. Ryman
DEC Canada External Research Program Equipment	Workstation-Based Computer Graphics	C	660,000 600,000 600,000	88-91	K.S. Booth	R.H. Bartels J.C. Beatty W.B. Cowan R.N. Goldman
Silicon Graphics Equipment	Iris 4D Workstation	C	115,100	88-89	R.H. Bartels	J.C. Beatty K.S. Booth W.B. Cowan R.N. Goldman
DEC Canada via WATDEC	Computer Graphics and Man-Machine Interfacing	C	287,123 1,412,863 700,000	84-85 85-86 86-87	J.C. Beatty	R.H. Bartels K.S. Booth D.E. Field
NSERC	Award from University of Waterloo President's NSERC grant	C	50,000	85	J.C. Beatty	R.H. Bartels K.S. Booth D.E. Field
NSERC Equipment	Interactive Computer Graphics	C	86,114	84-85	J.C. Beatty	R.H. Bartels K.S. Booth
Tektronix, Inc.	Geometry Processor	NC	30,000 (US funds)	84	J.C. Beatty	K.S. Booth

University of Waterloo Academic Development Fund	Computer Graphics Equipment	C	24,000 94,624	82-83 84-85	K.S. Booth D.E. Field	R.H. Bartels J.C. Beatty
NSERC Infrastructure	Infrastructure support for Institute for Computer Research	C	385,000 404,250 400,000 400,000	83-84 84-86 86-89 89-92	E.G. Manning et al. J.I. Munro K.S. Booth	
NSERC Travel		C	315.00	84-85	K.S. Booth	
Vertigo Imagery, Inc., Vancouver	Paint Systems	NC	8,000	86	K.S. Booth	
NSERC Strategic Conference	Graphics Interface '92	C	3,850	91-92	K.S. Booth	
PRECARN Associates	Team-Based Intelligent Productivity Systems Feasibility Study	C	100,000	93	J. Crawford	K.S. Booth E. Chang S. Dubs R.C. Goldstein M.L. Jones D.A. Poole S. Rao C.C. Woo

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

Agency	Title	COMP	\$/yr	Year	PI	Co-Investigator(s)
Panasonic Corporation	Vision based sensing in the home	NC	100,000	2007-2008	R.J. Lea	K.S. Booth S.S. Fels
Panasonic Corporation	Large screen interaction and co-located interaction in the digital home of the future	NC	100,000	2007-2006	R.J. Lea	K.S. Booth S.S. Fels
B.C. Advanced Systems Institute	Closing the Loop in Immersive CAD	NC	40,000	2004	B.A. Fisher	K.S. Booth
General Motors Canada	Closing the Loop in Immersive CAD	NC	27,000	2004	B.A. Fisher	K.S. Booth
New Media Innovation Centre	Collaborative systems for shared environments	NC	52,500	2001-2002	K.S. Booth	
Pthalo Systems, Inc.	I/O Interface and Colour Correction and Control Software Contract	NC	40,000	1995-1996	K.S. Booth	A. Fournier

Division of Electrical Engineering, NRC	Dynamic Graphics Package Software Development - Contract Number OST84-00434,	C	34,884	1985	J.C. Beatty	R.H. Bartels K.S. Booth D.E. Field
PILP Contract with Omnibus Computer Graphics, Inc., Toronto	Computer Animation Software	NC	50,000	1985	K.S. Booth	R.H. Bartels J.C. Beatty D.E. Field
The National Film Board of Canada, Montreal	Computer Animation - Sabbatical salary support	NC	7,446	1984-1985	K.S. Booth	

(d) Invited Presentations

“SIGGRAPH 2010 Service Award,” SIGGRAPH 2010, July 27, 2010.

“Collaborating on, with, and about Technology” for the 2008 Cognos Innovation Lecture, Carleton University, October 7, 2008.

(e) Other Presentations**(f) Other****(g) Conference Participation (Organizer, Keynote Speaker, etc.)**

2004-2005 General Chair, AI/GI/CRV 2005
 1995 Keynote speaker, Slice of Life Conference 1995 - “Computer Graphics Meets Multimedia: Real-time Images for Medicine”
 1994 Speaker at the Ed-Media World Conference on Educational Multimedia and Hypermedia, “Is There Computer Graphics After Multimedia”. Vancouver, B.C.
 1991-1992 General Co-Chair, Graphics Interface '92
 1981-1984 General Co-Chair, ACM/SIGGRAPH '83
 1981 Local Arrangements Co-Chair, 7th CMCCS Conference

10. SERVICE TO THE UNIVERSITY**(a) Memberships on committees, including offices held and dates**University:

2004-2008 ICICS Resource Allocation Committee
 2004 ICICS Planning Committee
 1997-2005 School of Journalism Steering Committee
 1997 Department of Philosophy Head Search Committee
 1996-1998 Green College, Membership Committee
 1995 Media Resource Network Working Committee
 1995 Media Resource Network Steering Committee
 1991 Conflict of Interest Policy (Research)
 1990-2008 ICICS Advisory Committee
 1985 Davis Centre Opening Committee
 1984-1985 Computer Art Show Committee
 1979-1982 Computers in Education Committee

Departmental:

2010-present	Faculty Affairs Committee
2009-2012	Research Working Group
2007-2008	Communications Committee
2007	Case preparation committee (promotion)
2004-2008	Computing Committee (chair)
2004-2008	Space Committee
2003-2004	<i>ad hoc</i> School of Computing Committee (chair)
1997	Recruiting Committee
1995	Finance Committee
1991-1995	Faculty Recruiting Committee
1991-1994	Teaching Evaluation Committee
1986	Chair Selection Committee
1986	Faculty Recruiting Committee
1986	1st and 2nd Year Courses (Chair)
1986	Full Professors
1985	Curriculum
1985-1986	Retreat Planning Committee
1982	Chair Selection
1982	Graduate Handbook
1981	Computer Graphics Laboratory (Director)
1981	Promotion and Tenure
1981-1986	Advisory Committee
1981-1982	Colloquium Committee
1981-1982	Faculty Recruiting Committee
1981	CS 250 Course Review
1980	Math Faculty Committee, Computer Science Days Evaluation.
1979-81	<i>ad hoc</i> Typesetting Committee
1979-80	Space Committee
1978-80	Graduate Admissions Committee
1977-78	Theory Seminar Organization
1977-78	PhD Comprehensive Examination

(b) Other service, including dates**11. SERVICE TO THE COMMUNITY****(a) Memberships in scholarly societies, including offices held and dates**

2010-present	Distinguished Member, Association for Computing Machinery (ACM)
2009-2010	Senior Member, Association for Computing Machinery (ACM)
2008-2014	Past President, Canadian Human-Computer Communications Society
2002-2008	President, Canadian Human-Computer Communications Society
1989-1993	Past Chair, ACM/SIGGRAPH
1986-present	Member, ACM/SIGCHI (Special Interest Group on Human-Computer Interaction)
1985-1989	Chair, ACM/SIGGRAPH
1984-1985	Member, ACM <i>ad hoc</i> Conference Management Planning Committee
1981-1985	Member, ACM/SIGGRAPH Conference Planning Committee
1982-present	Member, Canadian Human-Computer Communications Society
1981	Chair, ACM/SIGGRAPH <i>ad hoc</i> Technical Program
1974-2005	Member, ACM/SIGGRAPH (Special Interest Group on Computer Graphics)
1974-2009	Member, Association for Computing Machinery (ACM)

(b) Memberships in other societies, including offices held and dates**(c) Memberships on scholarly committees, including offices held and dates**

Institute for Computer Research Committees:

1988	Infrastructure Grant Authoring
1987	Colloquium
1986	Board of Directors
1985	Management
1985	Infrastructure Grant Authoring
1982	Group Directors
1982	Infrastructure Grant Authoring
1981-82	Ad Hoc Organizing

(d) Memberships on other committees, including offices held and dates**(e) Editorships (list journal and dates)****(f) Reviewer (journal, agency, etc. including dates)**

2011	<i>Behavior and Information Technology</i> (journal)
2011	INTERACT 2011 program committee
2010	CHI 2011 program committee
2008	CHI 2009 program committee
2008	UIST 2008 program committee
2006	UIST 2006 program committee
2005	CHI 2006 program committee
2003	CHI 2004 program committee
2003	UIST 2003 program committee
2002	UIST 2002 program committee
2001	CHI 2002 program committee
2000	I3D 2001 program committee
1999	UIST '99 program committee
1999	SIGGRAPH '99 program committee
1999	CHI '99 review committee
1998	SIGGRAPH '98 program committee
1998	Graphics Interface '98 program committee. co-chair
1998	VRST '98 program committee
1996	VRAIS program committee
1995	VRAIS program committee
1995	CHI '95 program committee
1995	SIGGRAPH '95 program committee
1992-94	Science Council of BC grant review
1991	Graphics Interface'91 technical program committee
1991	Supercomputing'91 tutorials and workshops review committee
1989-90	Chair, NSERC strategic panel on Computers and Communications
1989	1990 Symposium on Interactive 3D Graphics technical program committee
1989	ACM Strategic Directions on Computing Research technical program committee
1989	Graphics Interface '89 technical program committee
1988-91	Member, NSERC strategic panel on Computers and Communications
1987	2nd International Conference on Computer Workstations technical program committee
1986	CHI+GI'87 Doctoral Consortium
1986	2nd Symposium on Computational Geometry technical program committee
1985	1st International Conference on Computer Workstations technical program committee
1983	15th ACM Symposium on Theory of Computing technical program committee
1982	SIGGRAPH'82 technical program committee
1981	SIGGRAPH'81 technical program committee
1981	7th CMCCS technical program committee
1980	SIGGRAPH'80 technical program committee

1979 SIGGRAPH'79 technical program committee

(g) External examiner (indicate universities and dates)

M.A.Sc external examiner, Simon Fraser University, Computing Science
 Academic Reviewer - Review of Graduate Programs and Research in the Department of Computing Science,
 University of Alberta. May, 1997.
 Ph.D. external examiner, University of Alberta 1985
 Ph.D. external examiner, University of Witwatersraand (S. Africa) 1977

(h) Consultant (indicate organization and dates)

Consulting activity includes projects with industry and government on various aspects of computer graphics. I served as the Vancouver Director of the Academic Research Centre for Business Objects in 2007-2008. Consulting clients have included Advanced Micro Computers, Alias Research, Burroughs Corporation, Digital Equipment Corporation, Institute of Choreology, Integrated Computer FaculSystems, Lawrence Livermore National Laboratory, Los Alamos National Laboratory, Omnibus Computer Graphics, Orcatech, Prime Computer, National Film Board of Canada, Revenue Canada, St. Lawrence Seaway Authority, Tektronix, Vertigo Imagery Systems and Xerox Palo Alto Research Center.

(i) Other service to the community

12. AWARDS AND DISTINCTIONS

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

Honorable mention "Incredible Instructor", Department of Computer Science, UBC, April 2002.
 Honorable mention "Incredible Instructor", Department of Computer Science, UBC, December 2001.

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

Achievement Award, Canadian Human-Computer Communication Society, May 2008.
 Fellow of the British Columbia Advanced Systems Institute 1992-2002.

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

Computer Science Faculty Mentoring Award, UBC, May 2012.
 Outstanding Service Award, ACM SIGGRAPH, July 2010.
 Faculty of Science Achievement Award, UBC, April 2006.

(d) Other Awards

Canadian Digital Media Pioneer Award, CHCCS, June 2016.

13. OTHER RELEVANT INFORMATION (maximum one page)

THE UNIVERSITY OF BRITISH COLUMBIA
Publications Record

DATE: 2019 November 05 INITIALS:

SURNAME Booth FIRST NAME: Kellogg MIDDLE NAME: Speed

1. REFEREED PUBLICATIONS

(a) Journals

- SCHNEIDER, O., MACLEAN, K.E., SWINDELLS, C. & BOOTH, K.S. (2017). Haptic experience design: What hapticians do and where they need help. *International Journal of Human-Computer Studies*. Available online 1 May 2017.
<https://doi.org/10.1016/j.ijhcs.2017.04.004>
- NOBARANY, S. & BOOTH, K.S. (2017). Understanding and supporting anonymity policies in peer review. *J. Association for Information Science and Technology*, 68(4):957-971.
<https://doi.org/10.1002/asi.23711>
- NOBARANY, S., BOOTH, K.S. & HSIEH, G. (2016). What motivates people to review papers? The case for the human-computer interaction community. *J. Association for Information Science and Technology*, 67(6):1358-1371.
<https://doi.org/10.1002/asi.23467>
- NOBARANY, S. & BOOTH, K.S. (2015). Use of politeness strategies in signed open peer review. *J. Association for Information Science and Technology*, 66(5):1048-1064.
<https://doi.org/10.1002/asi.23229>
- SHOEMAKER, G.A., TSUKITANI, T., KITAMURA, Y., K. & BOOTH, K.S. (2012) Two-part models capture the impact of gain on pointing performance. *ACM Transactions on Computer-Human Interaction*, 19(4), 28 pages.
- LANIR, J., BOOTH, K.S. & WOLFMAN, S.A. (2012). An observational study of dual display usage in university classroom lectures. *Human Computer Interaction*, 28(4):335-377.
<http://dx.doi.org/10.1080/07370024.2012.697037>
- TSUKITANI, T., SHOEMAKER, G., BOOTH, K.S., TAKASHIMA, K., ITOH, Y., KITAMURA, Y. & KISHINO, F. (2011). A Fitts' law analysis of shadow metaphor mid-air pointing on a very large wall display. *Information Processing Society of Japan Journal*, 52(4):1495-1503 (April).
- LANIR, J., BOOTH, K.S. & HAWKEY, K. (2010). The benefits of more electronic screen space on students' retention of material in classroom lectures. *Computers and Education*, 55(2):892-903.
- SWINDELLS, C., MACLEAN, K.E. & BOOTH, K.S. (2009). Designing for feel: Contrasts between human and automated parametric capture of knob physics. *IEEE Transactions on Haptics*, 2(4):200-211 (October-December).

- MCGRENERE, J., BAECKER, R.M. & BOOTH, K.S. (2007). A field study of an adaptable two-interface design for feature-rich software. *ACM Transactions on Computer-Human Interaction*, 14(1), 43 pages (May).
- CUBRANIC, C., MURPHY, G.C., SINGER, J. & BOOTH, K.S. (2005). Hipikat: Project memory for software development. *IEEE Transactions on Software Engineering, Special Issue on Mining Software Repositories* 31(6):446-465.
- PO, B.A., FISHER, B.D. & BOOTH, K.S. (2005). A two-visual systems approach to understanding voice and gesture interaction. *Virtual Reality*, 8:231-241.
- LIU, G., AUSTEN, E.L., BOOTH, K.S., FISHER, B.D., REMPEL, M.I. & ENNS, J.T. (2005). Multiple object tracking is based on scene, not retinal, coordinates. *Journal of Experimental Psychology: Human Perception and Performance* 31(2):235-247 (April).
- HEALEY, C.G., BOOTH, K.S. & ENNS, J.T. (1995). Harnessing preattentive processes for multivariate data visualization. *ACM Transactions on Human-Computer Interaction*. 3(2):107-135.
- HEALEY, C.G., BOOTH, K.S. & ENNS, J.T. (1995). High-speed visual estimation using preattentive processing. *ACM Transactions on Modeling and Computer Simulation, Special Issue on Graphics, Visualization and Animation*, 5(3):190-221
- CSINGER, A., BOOTH, K.S. & POOLE, D.L. (1994). AI meets authoring: User models for intelligent multimedia. *Artificial Intelligence Review Journal*, 8(3):447-468.
- ARTHUR, K.W., BOOTH, K.S. & WARE, C. (1993). 3D task performance in fish tank virtual worlds. *ACM Transactions on Information Systems, Special Issue on Virtual Worlds*, 11(3), 239-265.
- BARTELS, R.H., BOOTH, K.S., BOSCH, E.G. & JOLICOEUR, P. (1993). Experimental comparison of splines using the shape-matching paradigm. *ACM Transactions on Computer Graphics*, 12(3):179-208.
- JOLICOEUR, P., INGLETON, M., BARTRAM, L.R. & BOOTH, K.S. (1993). Top-bottom and front-behind decisions on rotated objects. *Canadian Journal of Experimental Psychology*, 47(4):657-677.
- MACDONALD, J.D. & BOOTH, K.S. (1990). Heuristics for ray tracing using space subdivision. *The Visual Computer*, 6(3):153-166.
- TANNER, P.P., JOLICOEUR, P., COWAN, W.B., BOOTH, K.S. & FISHMAN, F.D. (1989). Antialiasing: A technique for smoothing jagged lines on a computer graphics image – an implementation on the Amiga. *Behaviour Research Methods, Instruments and Computers*, 21(1):59-66.
- BOOTH, K.S., BRYDEN, M.P., COWAN, W.B., MORGAN, M.F. & PLANTE, B.L. (1987). On the parameters of human visual performance: An investigation of the benefits of antialiasing. *IEEE Computer Graphics and Applications*, 7(11):34-41.

- BOOTH, K.S., FORSEY, D.R. & PAETH, A.W. (1986). Hardware assistance for z-buffer visible surface algorithms. *IEEE Computer Graphics and Applications*, 6(11), 31-39.
- CRAMER, M. & BOOTH, K.S. (1985). The design of audience space with predetermined visibility performance. *SMPTE Journal*, 94(5), 585-594.
- RYMAN, R.S., SINGH, B., BEATTY, J.C. & BOOTH, K.S. (1984). A computerized editor for Benesh movement notation. *CORD Dance Research Journal*, 16(1), 27-34.
- BOOTH, K.S. & KOCHANNEK, D.H.U. (1983). Computer animation. *IEEE Spectrum*, 20(2), 44-51.
- BOOTH, K.S. & JOHNSON, J.H. (1982). Dominating sets in chordal graphs. *SIAM Journal Computing*, 11(1), 191-199.
- BOOTH, K.S. (1981). Authentication of signatures using public-key encryption. *CACM*, 24(11), 772-774.
- BOOTH, K.S. & LIPTON, R.J. (1981). Computing extremal and approximate distances in a graph having unit cost edges. *Acta Informatica*, 15(4), 319-328.
- COLBURN, C.J. & BOOTH, K.S. (1981). Linear time automorphism algorithms for trees, interval graphs, and planar graphs. *SIAM Journal on Computing*, 10(1), 203-225.
- BOOTH, K.S. (1980). Lexicographically least circular substrings. *Information Processing Letters*, 10(4), 240-242.
- LEUKER, G.S. & BOOTH, K.S. (1979). A linear time algorithm for deciding interval graph isomorphism. *JACM*, 26(2), 183-195.
- ADLEMAN, L., BOOTH, K.S., PREPARATA, F.P. & RUZZO, W.L. (1979). Improved time and space bounds for boolean matrix multiplication. *Acta Informatica*, 11(1), 61-70.
- BOOTH, K.S. (1978). Isomorphism testing for graphs, semigroups, and finite automata are polynomially equivalent problems. *SIAM Journal Computing*, 7(3), 273-279.
- BOOTH, K.S. & LUEKER, G.S. (1976). Testing for the consecutive ones property, interval graphs, and graph planarity using PQ-tree algorithms. *JCSS*, 13(3), 335-379.
- WETHERALL, C.S., BUCKHOLTZ, T.J. & BOOTH, K.S. (1972). A director for Kriegspiel, a variant of chess. *The Computer Journal*, 15(1), 66-70.

(b) Conference Proceedings

- GIRLING, CYNTHIA, RONALD W. KELLETT, KELLOGG S. BOOTH, NARGES MAHYAR, KELLY J. BURKE, & ALIX KRAHN. Collaboration tools to support informed public engagement. In *Proceedings CELA 2017 Conference BRIDGING*, Beijing, China, May 26-29, 2017. Accepted for publication in *Landscape Research Record 06*.
- MAHYAR, N., BURKE, K.J., XIANG, J., MENG, S., BOOTH, K.S., GIRLING, C.L. & KELLETT, R.W. (2016). UD Co-Spaces: A table-centred multi-display

- environment for public engagement in urban design Charrettes. In *Proceedings of the 2016 ACM on Interactive Surfaces and Spaces (ISS '16)*. ACM, New York, NY, USA, 109-118.
<https://doi.org/10.1145/2992154.2992163>
- JANZEN, I.F., RAJENDRAN, V.K. & BOOTH, K.S. (2016). The impact of target depth on pointing performance. In *Proceedings of the 2016 annual conference on Human factors in computing systems (CHI '16)*. ACM, New York, NY, USA, 188-199.
<https://doi.org/10.1145/2858036.2858244>
- CACEFFO, R., WOLFMAN, S., BOOTH, K.S., AZEVEDO, R. (2016). Developing a computer science concept inventory for introductory programming. In *Proceedings of the 47th ACM Technical Symposium on Computing Science Education (SIGCSE '16)*. ACM, New York, NY, USA, 364-369.
- FERNQUIST, J., SHOEMAKER, G.A. & BOOTH, K.S. (2011). OhSnap: Helping users align digital objects on touch interfaces. In *Proceedings of INTERACT 2011*. Springer, Berlin/Heidelberg, 338-355 (September).
https://doi.org/10.1007/978-3-642-23765-2_24
- HENDY J.C., LINK, J., MCGRENERE, J.A. & BOOTH, K.S. (2011). Parameter selection in keyboard-based dialog boxes. In *Proceedings of the 2011 annual conference on Human factors in computing systems (CHI '11)*. ACM, New York, NY, USA, 2761-2764..
- SHOEMAKER, G. TSUKITANI, T., KITAMURA, Y. & BOOTH, K.S. (2010). Body-centric interaction techniques for very large wall displays. In *Proceedings of the 6th Nordic Conference on Human-Computer Interaction: Extending Boundaries (NordiCHI '10)*. ACM, New York, NY, USA, 463-472.
- RAJA, F., HAWKEY, K., JAFERIAN, P., BOOTH, K.S. & BEZNOSOV, K. (2010). It's too complicated, so I turned it off! Expectations, perceptions, and misconceptions of personal firewalls. In *Proceedings of the 3rd ACM workshop on Assurable and usable security configuration (SafeConfig '10)*. ACM, New York, NY, USA, 53-62.
- HENDY, J.C., BOOTH, K.S. & HAWKEY, J.L. (2010). Graphically enhanced keyboard accelerators for GUIs. *Proceedings of Graphics Interface 2010*. Ottawa, Ontario. May 31 – June 1, pp. 3-10.
- MAKSAKOV, E., BOOTH, K.S. & HAWKEY, K. (2010). Whale tank virtual reality. *Proceedings of Graphics Interface 2010*. Ottawa, Ontario. May 31 – June 1, pp. 185-192.
- SHOEMAKER, G., FINDLATER, L., DAWSON, J.Q., BOOTH, K.S. (2009). Mid-air text input techniques for very large wall displays. *Proceedings of Graphics Interface 2009*. Kelowna, British Columbia. May 25-27, pp. 231-238.
- LANIR, J. AND BOOTH, K.S. (2008). Presentation tools for high-resolution and multiple displays. In *Proceeding of the 3rd ACM international Workshop on Human-Centered Computing*. Vancouver, British Columbia. October 31, pp. 61-68

- LANIR, J., BOOTH, K.S. & TANG, A. (2008). MultiPresenter: a presentation system for (very) large display surfaces. In *Proceeding of the 16th ACM international Conference on Multimedia*. Vancouver, British Columbia. October 26-31, pp. 519-528.
- LANIR, J., BOOTH, K.S. & FINDLATER, L. (2008). Observing presenters' use of visual aids to inform the design of classroom presentation software. *CHI Letters* 10(1): 1247-1256. (*Proceedings of the ACM Conference on Human Factors in Computing* (CHI 2008), Florence, Italy, April 5-10.)
- SHOEMAKER, G., TANG, A.T. & BOOTH, K.S. (2007). Shadow Reaching: A new perspective on interaction for large wall displays. In *Proceedings of UIST 2007 – The 20th Annual ACM Symposium on User Interface Software and Technology*, October 7-10, Providence, RI, pp. 53-56.
- SWINDELLS, C., MACLEAN, K.E., BOOTH, K.S. & MEITNER, M. (2007). Exploring affective design for physical controls. *CHI Letters* 9(1):933-942. (*Proceedings of the ACM Conference on Human Factors in Computing* (CHI 2007), San Jose, CA, April 28 – May 3.)
- SPRAGUE, D.W., PO, B.A. & BOOTH, K.S. (2006). The importance of accurate VR head registration on skilled motor performance. In *Proceedings of Graphics Interface 2006*. Quebec, Quebec. June 7-9, pp. 131-138.
- SWINDELLS, C., MACLEAN, K.E., BOOTH, K.S. & MEITNER, M. (2006). A case-study of affect measurement tools for physical user interface design. In *Proceedings of Graphics Interface 2006*. Quebec, Quebec. June 7-9, pp. 243-250.
- ZHENG, Q., MCGRENERE, J.L. & BOOTH, K.S. (2006). Co-authoring with structured annotations. In *Proceedings of the ACM Conference on Human Factors in Computing* (CHI 2006) Montreal, Quebec, April 22-27, pp. 131-141.
- BERRY, L., BARTRAM, L.R. & BOOTH, K.S. (2005). Role-based policies to view shared applications. In *Proceedings of UIST 2005 - The 18th Annual ACM Symposium on User Interface Software and Technology*, October 23-26, Seattle, WA, pp. 23-32.
- PO, B.A., FISHER, B.D. & BOOTH, K.S. (2005). Comparing cursor orientations for mouse, pointer, and pen interaction. In *Proceedings of the ACM Conference on Human Factors in Computing* (CHI 2005), Portland, OR, April 2-7, pp. 291-300.
- CUBRANIC, D., MURPHY, G.C., SINGER, J. & BOOTH, K.S. (2004). Learning from project history: A case study for software development. In *Proceedings ACM CSCW 2004*, Chicago, IL, November 6-10, pp. 82-91.
- VOGT, F., WONG, J., PO, B.A., ARGUE, R., FELLS, S.S. & BOOTH, K.S. (2004). Exploring collaboration with group pointer interaction. In *Proceedings of CGI 2004* (Computer Graphics International), Hersonissos, Crete, Greece, June 16-19, pp. 636-639.
- SWINDELLS, C., PO, B.A., HAJSHIRMOHAMMADI, I., CORRIE, B., DILL, J.C., FISHER, B.D. & BOOTH, K.S. (2004). Comparing CAVE, wall, and desktop displays for navigation and wayfinding in complex 3D models. In *Proceedings of CGI 2004*

- (Computer Graphics International), Hersonissos, Crete, Greece, June 16-19, pp. 420-427.
- HANCOCK, M. & BOOTH, K.S (2004). Improving menu placement strategies for pen input. In *Proceedings of Graphics Interface 2004*. London, Ontario. May 17-19, pp. 221-230.
- PO, B.A., FISHER, B.D. & BOOTH, K.S. (2004). Mouse and touchscreen selection in the upper and lower visual fields. In *Proceedings of the ACM Conference on Human Factors in Computing (CHI 2004)* Vienna, Austria, April 21-26, pp. 359-366.
- PO, B.A., FISHER, B.D. & BOOTH, K.S. (2003). Pointing and visual feedback for spatial interaction in large screen display environments. In *Proceedings of the 3rd International Symposium on Smart Graphics*, July 2-4, Heidelberg, Germany, pp. 22-38.
- BOOTH, K.S., FISHER, B.D., LIN, C.J.R. & ARGUE, R. (2002). The "Mighty Mouse" multi-screen collaboration tool. In *Proceedings of UIST 2002 - The 15th Annual ACM Symposium on User Interface Software and Technology*, October 27-30, Paris, France, pp. 209--212.
- HARRISON, J., BOOTH, K.S. & FISHER, B.D., (2002). Experimental investigation of linguistic and parametric descriptions of human motion for computer animation. *Proceedings of CGI 2002 (Computer Graphics International)*, Bradford, UK, July 1-5, 2002.
- MCGRENERE, J., BAECKER, R.M. & BOOTH, K.S. (2002). An evaluation of a multiple interface design solution for bloated software. *Proceedings of ACM CHI 2002 (Conference on Human Factors in Computing)*, Minneapolis, MN, April 21-26. pp. 163-170.
- DANASH, A., INKPEN, K.M., LAU, F., SHU, K. & BOOTH, K.S. (2000). Geney™: Designing a collaborative activity for the Palm™ handheld computer. In *Proceedings of ACM CHI 2001 (April, 2001)*.
- SCHAREIN, R.G., BOOTH, K.S. & LITTLE, J.J. (2000). Interactive knot theory with KnotPlot. *Workshop on Multimedia Tools for Communicating Mathematics*. Lisbon, Portugal (November 23-25). Appears in Borwein, J., Morales, M.H., Polthier, K. & Rodrigues, J.F., editors (2002). *Multimedia Tools for Communicating Mathematics*. Springer-Verlag: Berlin, Germany. p 277-290.
- MACKENZIE, C.L., BOOTH, K.S., DILL, J.C., INKPEN, K.M. & PAYANDEH, S. (2000). Evaluating human goal-directed activities in virtual and augmented environments. *Proceedings of International Ergonomics Association (IEA2000)/Human Factors and Ergonomics Society (HFES2000) Congress: Ergonomics for the New Millennium*, 1(546).
- BAECKER, R.M., BOOTH, K.S. JOVICIC, S., MCGRENERE, J. & MOORE, G. (2000). Reducing the gap between what users know and what they need to know. *Proceedings of CUU 2000 - The ACM Conference on Universal Usability*. November 16-17, Washington, D.C.

- SWINDELLS, C., DILL, J.C. & BOOTH, K.S. (2000). System lab tests for augmented and virtual environments. In *Proceedings of UIST 2000 - The 13th Annual ACM Symposium on User Interface Software and Technology*. November 5-8, San Diego, CA.
- CUBRANIC, D., BOOTH, K.S. (1999). Coordination in open-source software development. *Proceedings of the 7th IEEE International Workshops on Enabling Technologies: Infrastructure for Collaborative Enterprises*.
- CUBRANIC, D., COLLIE, K. & BOOTH, K.S. (1999). Computer-supported distance art therapy: Beyond computerization. *WebNet 1999*, pp: 272-276
- SUMMERS, V.A., BOOTH, K.S., CALVERT, T.W., MACKENZIE, C.L. (1999). Calibration for augmented reality experimental testbeds. *Proceedings of the 1999 Symposium on Interactive 3D Graphics*. Atlanta, GA, April 26-29.
- COLLIE, K., CUBRANIC, D. & BOOTH, K.S. (1998). Participatory design of a system for computer-supported distance art therapy. *The Fifth Biennial Participatory Design Conference 1998*, (8 pages). Seattle, WA.
- CUBRANIC, D., BOOTH, K.S. & COLLIE, K. (1998). Computer support for distance art therapy. *The ACM SIGCHI Conference on Human Factors in Computing. Summary of Human Factors in Computing Systems 1998*, (pp.277-278). Los Angeles, CA.
- WANG, Y. MACKENZIE, C.L. BOOTH, K.S. & SUMMERS, V. (1998) The Structure of Object Transportation and Orientation in Human-Computer Interaction. *Proceedings of Human Factors in Computing Systems 1998* (pp.312-319). Los Angeles, CA.
- BORITZ, J. & BOOTH, K.S. (1998). A study of interactive 6 DOF docking in a computerised virtual environment. In *Proceedings of the IEEE Virtual Reality Annual International Symposium 1998* (pp 139-146). Atlanta, Georgia.
- BORITZ, J. & BOOTH, K.S. (1997). A study of interactive 3D point location in a computer simulated virtual environment. *Proceedings of the ACM Symposium on Virtual Reality Software and Technology '97*. (pp.181-187). Lausanne, Switzerland.
- INKPEN, K., MCGRENERE, J., BOOTH, K.S. & KLAWE, M. (1997). Turn-Taking Protocols for Mouse-Driven Collaborative Environments. *Proceedings of the Graphics Interface '97* (pp.138-145). Kelowna, B.C.
- NAH, F.-H., RATHIE, S., FLINN, S., BORITZ, J. & BOOTH, K.S., (1995). Co-discovery learning as a technique for group support system evaluation. *Proceedings of the Information Systems Group of the Association of Management 13th Annual International Conference 13(1)* (pp. 119-124). Vancouver, B.C,
- INKPEN, K., BOOTH, K.S., GRIBBLE, S.D. & KLAWE, M. (1995). Give and take: Children collaborating on one computer. *Companion to the Proceedings of the Conference on Human Factors in Computing Systems '95* (pp.258-259). Denver, Colorado.

- INKPEN, K., BOOTH, K.S., KLAWE, M. & UPITIS, R. (1995). Playing together beats playing apart, especially for girls. *Proceedings of the Computer Support for Cooperative Learning '95*. (pp.177-181). Lafayette, Indiana.
- JOHNSTON, B., ATKINS, M.S. & BOOTH, K.S. (1994). Partial volume segmentation in 3D of lesions and tissues in magnetic resonance images. *Proceedings of the SPIE Medical Imaging 1994*, 2167:28-29. Bellingham, WA. SPIE - The International Society for Optical Engineering.
- ZUK, T.D., ATKINS, M.S. & BOOTH, K.S. (1994). Approaches to registration using 3D surfaces. *Proceedings of the SPIE Medical Imaging 1994*. Newport Beach, California.
- JANG, S.B., BOOTH, K.S., REILLY, C.W., SAWATZKY, B.J. & TREDWELL, S.J. (1994). Three-dimensional analysis of scoliosis surgery using stereo photogrammetry. *Proceedings of the SPIE Symposium on Electronic Imaging Science & Technology*. San Jose, California.
- JOHNSTON, B., ATKINS, M.S. & BOOTH, K.S. (1994). Three-dimensional partial volume brain tissue segmentation of multispectral magnetic resonance images using stochastic relaxation. *Non-Linear Image Processing VI*, 2180:268-279. Bellingham, WA. SPIE - The International Society for Optical Engineering.
- SCHAREIN, R.G., BOOTH, K.S. & LITTLE, J.J. (1994). 3-D neuron tracing from confocal microscope data using a head-coupled display. *Proceedings of the IS&T/SPIE Symposium on Electronic Imaging Science & Technology, Conference on Three-Dimensional Microscopy: Image Acquisition and Processing*. San Jose, California.
- CSINGER, A., BOOTH, K.S. & POOLE, D.A. (1994). Reasoning about video: Knowledge-based transcription and presentation. *Proceedings of the 27th Annual Hawaii International Conference and System Sciences* (pp. 599-608). Maui, Hawaii.
- HEALEY, C.G., BOOTH, K.S. & ENNS, J.T. (1993). Harnessing preattentive processes for multivariate data visualization. *Proceedings of Graphics Interface '93* (pp. 107-117). Toronto, Ontario.
- JANG, S., BOOTH, K.S., FORSEY, D.R. & GRAF, P. (1993). Investigating the effectiveness of direct manipulation of 3D B-spline curves using the shape-matching paradigm. *Proceedings of Graphics Interface '93* (pp. 97-104). Toronto, Ontario.
- WARE, C., ARTHUR, K.W. & BOOTH, K.S. (1993). Fish tank virtual reality. *Proceedings of INTERCHI '93 Conference on Human Factors in Computing Systems* (pp. 37-42). Amsterdam, Netherlands.
- BORITZ, J., BOOTH, K.S. & COWAN, W.B. (1991). Fitts law studies of directional mouse movement. *Proceedings of Graphics Interface '91* (pp. 215-223). Calgary, Alberta.

- BOOTH, K.S., COWAN, W.B., WEIN, C. & WEIN, M. (1991). Hardware support for multitasking graphics. *Proceedings of Graphics Interface '91* (pp. 199-206). Calgary, Alberta.
- BOOTH, K.S., COWAN, W.B. & SUN, F.K.T. (1990). Understanding visual effects in a windowed environment. *Proceedings of Graphics Interface '90* (pp. 100-107). Halifax, Nova Scotia.
- BARTRAM, L.R., BOOTH, K.S. & COWAN, W.B. (1989). Issues in the design of workstations for psychology experimentation. *Proceedings of the 1989 IFIP WG 5.10 International Working Conference on Workstations for Experiments*.
- BOOTH, K.S., NEELY, S.R. & TANNER, P.P. (1989). The fill interpreter: A unified view of brushing, filling and compositing. *Proceedings of Graphics Interface '89* (pp.121-129). London, Ontario.
- MACDONALD, J.D. & BOOTH, K.S. (1989). Heuristics for ray tracing using space subdivision. *Proceedings of Graphics Interface '89* (pp. 152-163). London, Ontario.
- BOOTH, K.S., KELLEY, J.V. & WEIN, M. (1989). Design experience with a multiprocessor window system architecture. *Proceedings of Graphics Interface '89*. London, Ontario.
- DYCK, V.A., BLACK, J.P. & BOOTH, K.S. (1989). Delivering a better introductory course in computer science. *Proceedings of the Fifteenth International Conference on Improving University Teaching* (pp. 197-206). Vancouver, British Columbia.
- CHIONH, E-W., BOOTH, K.S., COWAN, W.B. & TANNER, P.P. (1988). Multiprocessing multitasking, realtime graphics workstations for psychology experimentation. *International Conference on Computer Graphics*. Singapore.
- BARTRAM, L.R., BOOTH, K.S., COWAN, W.B., MORRISON, J.D. & TANNER, P.P. (1988). A system for conducting experiments concerning human factors in interactive graphics. *Proceedings of Graphics Interface '88*. Edmonton, Alberta.
- BOSCH, E.G., BARTELS, R.H., BOOTH, K.S. & JOLICOEUR, P. (1988). Workstation-based shape matching experiments. *2nd IEEE Conference on Computer Workstations* (pp. 132-141). Santa Clara, California.
- BOOTH, K.S., FOWLER, B.M. & TANNER, P.P. (1988). Experience with graphics support for a multiprocessor workstation. *Parallel Processing for Computer Vision and Display International Conference*. Leeds, U.K. In P.M. Dew, R.A. Earshaw & T.R. Heywood (Eds.), *Parallel Processing for Computer Vision and Display*, (pp. 298-307) (1989). Addison-Wesley.
- BOOTH, K.S., BRYDEN, M.P., COWAN, W.B., MORGAN, M.F. & PLANTE, B.L. (1987). On the parameters of human visual performance: An investigation of the benefits of antialiasing. *Proceedings of CHI and GI '87*. Reprinted in J.M. Carroll and P.P. Tanner (Eds.), *Human Factors in Computing Systems IV and Graphics Interface*. North-Holland, Amsterdam.

- BOOTH, K.S., FORSEY, D.R. & PAETH, A.W. (1986). Hardware assistance for Z-buffer visible surface algorithms. *Proceedings of Graphics Interface '86* (pp. 194-201). Vancouver, British Columbia.
- HIGGINS, T.M. & BOOTH, K.S. (1986). A cel-based model for paint systems. *Proceedings of Graphics Interface '86* (pp. 91-97). Vancouver, British Columbia.
- PAETH, A.W. & BOOTH, K.S. (1986). Design and experience with a generalized raster toolkit. *Proceedings of Graphics Interface '86* (pp. 82-90). Vancouver, British Columbia.
- BOOTH, K.S., COWAN, W.B. & FORSEY, D.R. (1985). Multitasking support in a graphics workstation. *1st International Conference on Computer Workstations* (pp. 82-89). San Jose, California.
- BOOTH, K.S. (1984). Computer Graphics at Waterloo: Work in progress. *Fourteenth Manitoba Conference on Numerical Mathematics and Computing*. Manitoba, Winnipeg. Invited paper. In *Congressus Numerantium*, 46 (pp. 49-57).
- BARTELS, R.H., BEATTY, J.C., BOOTH, K.S. & HARDTKE, I. (1984). 2-D and 3-D interactive computer modelling systems. *Proceedings of Graphics Interface '84* (pp. 161-165). Invited paper.
- SINGH, B., BEATTY, J.C., BOOTH, K.S. & RYMAN, R.S. (1983). A graphics editor for Benesh movement notation. *Tenth Annual Conference on Computer Graphics and Interactive Techniques, ACM SIGGRAPH '83* (pp. 51-62). Detroit, Michigan.
- BEACH, R.J., BEATTY, J.C., BOOTH, K.S., PLEBON, D.A. & FIUME, E.L. (1982). The message is the medium: Multiprocess structuring of an interactive paint program. *Ninth Annual Conference on Computer Graphics and Interactive Techniques, ACM SIGGRAPH '82* (pp. 277-287). Boston, Massachusetts.
- BATES, R., BECK, J. LASKODI, T., REUSS, E., WELLS, M., BEATTY, J.C., BOOTH, K.S. & MATTHIES, L.H. (1982). A high-performance raster display system. *Proceedings of Graphics Interface '82* (pp. 355-364). Toronto, Ontario.
- BOOTH, K.S. & MACKAY, S.A. (1982) Techniques for frame buffer animation. *Proceedings of Graphics Interface '82* (pp. 213-220). Toronto, Ontario.
- DIAMOND, J.S. & BOOTH, K.S. (1981). Implementation of a linear time isomorphism test for interval graphs. *Conference on Consecutive Retrieval Property and Applications*. Appears In *Proceedings of a Conference on the Consecutive Retrieval Property Held in Warsaw in August 1981*. In S.P. Ghosh, Y. Kambayashi & W. Lipski (Eds.). *Notes and Reports in Computer Science and Applied Mathematics: Data Base File Organization: Theory and Applications of the Consecutive Retrieved Property* (pp. 151-161).
- BOOTH, K.S. & BEATTY, J.C. (1981). Teaching graphics at the University of Waterloo. *American Society for Engineering Education*. Los Angeles, California.

BEATTY, J.C., BOOTH, K.S. & MATTHIES, L.H. (1981). Revisiting Watkins' algorithm. *Seventh Conference of the Canadian Man-Computer Communications Society* (pp. 359-370). Waterloo, Ontario.

BEACH, R.J., BEATTY, J.C., BOOTH, K.S. & WHITE, A.R. (1981). Documentation graphics at the University of Waterloo. *International Conference on Research and Trends in Document Preparation Systems* (pp. 123-126). Lausanne, Switzerland.

BOOTH, K.S. & LIPTON, R.J. (1978). Computing extremal and approximate distances in a graph having unit cost edges. *Proceedings 16th Annual Allerton Conference on Communication, Control and Computing* (pp. 607-615). Allerton, Illinois.

BOOTH, K.S. & LUEKER, G.S. (1975). Linear time algorithms to recognize interval graphs and test for the consecutive ones property. *Proceedings 7th Annual ACM Symposium on Theory of Computing* (pp. 255-265). Albuquerque, New Mexico.

(c) Other

MACKENZIE, R., HAWKEY, K., KELLOGG S. BOOTH, K.S., LIU, Z., PERSWAIN, P. & DHILLON, S.S. (2012). LACOME: a multi-user collaboration system for shared large displays. In *Proceedings of the ACM 2012 conference on Computer Supported Cooperative Work Companion (CSCW '12)*. ACM, New York, NY, USA, 267-268.

GHUMAN H., CHAUDHARY N., GILL J., ISSA F., KOLADA E., KORESH I., MAK C., O'ROURKE M., TEO R., TSAI P., BURROWS A., KWOK E., LEUNG V., LINK J., NG C., SOON J.A., CURRIE L.M., BOOTH K.S. & NORMAN W.V. (2011). Development of Virtual Patients: a new learning strategy to enhance family planning curriculum: VIP-CARES: Virtual Inter-professional Patients as Contraception and Abortion Resources for Education of Students. Poster at the Annual General Meeting. Federation of Medical Women of Canada. Vancouver, 16-18 September 2011.

BOOTH, K.S. & STROULIA, E. (2011). Supporting a multidisciplinary digital media research community with GRAND aspirations. In *Proceedings of the 13th IFIP TC 13 international conference on Human-computer interaction - Volume Part IV (INTERACT'11)*, Pedro Campos, Nuno Nunes, Nicholas Graham, Joaquim Jorge & Philippe Palanque (Eds.), Vol. Part IV. Springer-Verlag, Berlin, Heidelberg, 681-682.

RAJA, F., HAWKEY, K., JAFERIAN, P., BEZNOSOV, K. & BOOTH, K.S. (2010). Expectations, perceptions, and misconceptions of personal firewalls. Poster at *SOUPS 2010*.

FERNQUIST, J., BOOTH, K.S. & MACKWORTH, A.K. (2010). Using multi-touch tabletops to create and compare neighbourhood designs that satisfy constraints. Poster at *Second International Workshop on Constraint Reasoning and Optimization for Computational Sustainability*, Bologna, Italy. June 15.

- SHOEMAKER, G.A., TSUKITANI, T., KITAMURA, Y., BOOTH, K.S. (2010). Whole body large wall display interfaces. Video and summary in *CHI Extended Abstracts*, pp. 4809-4812.
- RAJA, F., HAWKEY, K., BEZNOV, K. & BOOTH, K.S. (2010). Investigating an appropriate design for personal firewalls. Work-in-progress in *CHI Extended Abstracts*, pp. 4123-4128.
- RAJA, F., HAWKEY, K., BOOTH & K.S. (2009). Developing security and privacy requirements for a Local Area COllaborative Meeting Environment (LACOME). Poster at *USENIX-SEC 09*.
- HENDY, J.C., MCGRENERE, J.L., BOOTH, K.S. (2009). Graphically-enhanced keyboard accelerators. Poster in *Extended Abstracts, Graphics Interface 2009*. Kelowna, British Columbia. May 25-27.
- MACKENZIE, R., BOOTH, K.S., HAWKEY, K. & STAUB-FRENCH, S. (2009). Projected Fishtank Virtual Reality for Architectural Models. Poster in *Extended Abstracts, Graphics Interface 2009*. Kelowna, British Columbia. May 25-27.
- MACKENZIE, R., LIU, Z., PERSWAIN, P., HAWKEY, K. & BOOTH, K.S. (2009). Lacomé: The Large Collaborative Meeting Environment. Poster in *Extended Abstracts, Graphics Interface 2009*. Kelowna, British Columbia. May 25-27.
- MAKSAKOV, E., HAWKEY, K. & BOOTH, K.S. (2009). Whale tank virtual reality: Collaboration in VR using a large screen. Poster in *Extended Abstracts, Graphics Interface 2009*. Kelowna, British Columbia. May 25-27.
- ARGUE, R., BOOTH, K.S. & INKPEN, K.M. (2007). Reflect & satellite displays: advanced multi-display configuration. Poster in *Extended Abstracts, Graphics Interface 2007*.
- LANIR, J. & BOOTH, K.S. (2007). Understanding instructors use of visual aids in a classroom setting. Poster in *Extended Abstracts, Graphics Interface 2007*.
- LANIR, J., BERRY, L. & BOOTH, K.S. (2006). WinClone: Role-based control of distributed application views. Interactive demo at *ACM CSCW 2006*, Banff, AB, November 4-8.
- TANG, A.T., PARKER, K.J., LANIR, J., BOOTH, K.S., FELS, S.S. (2006). Studying collaborative surface use to guide large display interaction design. Poster at *ACM CSCW 2006*, Banff, AB, November 4-8.
- ZHENG, Q., BOOTH, K.S. & MCGRENERE, J. (2005). Designing structured annotations to support collaborative writing workflow. Poster in *Extended Abstracts, Graphics Interface 2005*.
- BERRY, L., BARTRAM, L.R. & BOOTH, K.S. (2005). Visual manipulations for improved generalized presentations. Poster in *Extended Abstracts, Graphics Interface 2005*.
- HARRISON, J., FISHER, B.D. & BOOTH, K.S. (2002). Perception and categorization of computer animated walking figures. Poster presentation at The Second Annual Meeting of the Vision Sciences Society. May 10-15, Sarasota, FL.

- AUSTEN, E., LIU, G., STEVENSON, A., BOOTH, K.S., DILL, J.C., ENNS, J.T., FISHER, B.D., MACLEAN, K. & RENSINK, R. (2001). Perceptual cognitive design: Safe changes to air traffic control. In *Poster Abstracts for Graphics Interface 2001*. June 7-9, Ottawa, Ont.
- BOOTH, K.S., FISHER, B.D., PAGE, S., WARE, C. & WIDEN, S. (2000). Wayfinding in a virtual environment. In *Poster Abstracts for Graphics Interface 2000*. May 15-17, Montreal, QC.
- BORITZ, J. & BOOTH, K.S. (1997). A Study of Interactive 3D Point Location in a Computer Simulated Virtual Environment. IRIS/PREARN'97. Ottawa.
- GRIBBLE, S., CSINGER, A. & BOOTH, K.S. (1994). A Distributed Multimedia Architecture for Intent-based Video Authoring and Presentation. *MultiComm '94*, Vancouver, B.C.
- CSINGER, A., BOOTH, K.S., POOLE, D.A., GRIBBLE, S. & RATHIE, S. (1993). Authoring intent-based video documents. *ACM Hypertext '93*. Seattle, Washington, poster presentation (November). Abstract only appears in published proceedings.
- TREDWELL, S.J., BOOTH, K.S., REILLY, C., SAWATZKY, B.J., DVORAK, M. (1993). Three-dimensional analysis of scoliosis surgery using stereophotogrammetry. *2nd International Symposium on 3-D Analysis of Human Movement* (pp. 90-91). Poitiers, France.
- BOOTH, K.S., CSINGER, A., GOLDSTEIN, R., JONES, M., POOLE, D., RAO, C., RATHIE, S., WOO, C., XIE, L. (1993). Team-based Intelligent Productivity Systems Feasibility Study Literature Review. (*Report to Precarn Associates, Inc.*).
- SINGH, B., BEATTY, J.C., BOOTH, K.S. & RYMAN, R.S. (1983). A graphical editor for Benesh movement notation. *The SIGGRAPH Video Review 10*. Selected for presentation at the CHI'83 Human Factors in Computing Systems Conference.
- RYMAN, R.S., SINGH, B., BEATTY, J.C. & BOOTH, K.S. (1982). A graphics editor for Benesh dance notation. *Tenth Annual Dance in Canada Conference*.
- BOOTH, K.S. (1977). Boolean matrix multiplication using only $O(n^{2.81} \log n)$ bit operations. *SIGACT News*, 23.
- BOOTH, K.S. (1976). Problems polynomially equivalent to graph isomorphism. Abstract appears in *Symposium on New Directions and Recent Results in Algorithms and Complexity*, J. Traub (Ed.).

2. NON-REFEREED PUBLICATIONS

(a) Journals

(b) Conference Proceedings

- GIRLING, C., KELLETT, R.W., BOOTH, K.S., MAHYAR, N., BURKE, K.J. & KRAHN, A. (2017). Fast and early feedback: Collaboration tools to support informed public engagement. Presented at CELA 2017 Conference BRIDGING, Beijing, China, May 26-29, 2017. Submitted to *Landscape Research Record 06*.

BOOTH, K.S. (2008). 2⁵ years ago I couldn't even spell Canadian, now I are one: Momentos of collaborating on, with, and about technology. *Proceedings of Graphics Interface 2008*. Windsor, Ontario. May 28-30, pp. 107-114.

GENTLEMAN, W.M. & BOOTH, K.S. (1991). Opportunities and Complications. *IFIP WG2.5 Working Conference 6, Programming Environments for High Level Scientific Problem Solving*. Karlsruhe, Germany.

BOOTH, K.S. & GENTLEMAN, W.M. (1990). A symbiotic approach to visualization and control for supercomputers. *The Conference on High Speed Computing*. Salishan, Oregon.

BOOTH, K.S. & GENTLEMAN, W.M. (1982). Anthropomorphic programming, language issues for large scale computing. *The Conference on High Speed Computing*. Salishan, Oregon.

BOOTH, K.S., CHERITON, D.R. & MUNRO, J.I. (1978). Spastic automata. *10th Annual ACM Symposium on Theory of Computing*. San Diego, California.

(c) Other

MACKENZIE, R., HAWKEY, K., PERSWAIN, P. AND KELLOGG S. BOOTH, K.S. (2010). Evaluating two window manipulation techniques on a large screen display. Technical Report 2010-03. Department of Computer Science, University of British Columbia.

LANIR, J., BOOTH, K.S. & WOLFMAN, S. (2009). Promoting collaborative learning in lecture halls using multiple projected screens with persistent and dynamic content. Technical Report 2009-10. Department of Computer Science, University of British Columbia.

SHOEMAKER, G., TSUKITANI, T., KITAMURA, Y. & BOOTH, K.S. (2009). Body-centric interactions with very large wall displays. Technical Report 2009-12. Department of Computer Science, University of British Columbia.

SWINDELLS, C., MACLEAN, K.E. & BOOTH, K.S. (2010). Relationships Between Human and Automated System Identification of Physical Controls. Technical Report 2007-03. Department of Computer Science, University of British Columbia.

BERRY, L., BARTRAM, L. & BOOTH, K.S. (2005). Role-based policies to control shared application views. Technical Report 2005-12. Department of Computer Science, University of British Columbia.

SWINDELLS, C., ENRIQUEZ, M.J., MACLEAN, K.E. & BOOTH, K.S. (2005). Co-locating haptic and graphic feedback in manual controls. Technical Report 2005-28. Department of Computer Science, University of British Columbia.

MCGRENERE, J., BAECKER, R.M. & BOOTH, K.S. (1999). Learning to use complex computer technology: The importance of user interface design. University of Toronto, Department of Computer Science, Computer Systems Research Group Technical Report CSRG-403.

- INKPEN, K., BOOTH, K.S. & KLAWE, M. (1996). Drag-and-Drop vs. Point-and-Click Mouse Interaction for Children. Technical Report 96-20. Department of Computer Science, University of British Columbia.
- INKPEN, K., BOOTH, K.S. & KLAWE, M. (1996) Interaction styles for Educational Computer Environments: A comparison of drag-and-drop vs. point-and-click. Technical Report 96-17. Department of Computer Science, University of British Columbia.
- MCGRENERE, J., BOOTH, K.S. (1996). Shared 3D Workspaces. Technical Report 96-13. Department of Computer Science, University of British Columbia.
- MCGRENERE, J., INKPEN, K., BOOTH, K.S. & KLAWE, M. (1996). Experimental Design: Input Device Protocols and Collaborative Learning Technical Report 96-11. Department of Computer Science, University of British Columbia.
- FLINN, W.S. & BOOTH, K.S. (1995). The creation, presentation and implications of selected auditory illusions, Technical Report 95-15. Department of Computer Science, University of British Columbia.
- BOOTH, K.S., JANG, S.B., REILY, C.W., SAWATZKY, B.J. (1995). Three-Dimensional Analysis of Scoliosis Surgery Using Stereo Photogrammetry. Technical Report 95-24. Department of Computer Science, University of British Columbia.
- HEALEY, C.G., BOOTH & ENNS, J.T. (1994). Real-Time Multivariate Data Visualization Using Preattentive Processing. Technical Report 94-39. Department of Computer Science, University of British Columbia.
- INKPEN, K., BOOTH, K.S., KLAWE, M. & UPITIS, R. (1994). Cooperative Learning in the Classroom: The Importance of a Collaborative Environment for Computer-Based Education. Technical Report 94-05. Department of Computer Science, University of British Columbia.
- JANG, S., BOOTH, K.S., REILLY, C.W., SAWATZKY, B.J. & TREDWELL, S.J. (1994). Three-Dimensional Analysis of Scoliosis Surgery Using Stereophotogrammetry. Technical Report 94-40. Department of Computer Science, University of British Columbia.
- HEALEY, C.G., BOOTH & ENNS, J.T. (1993). High-Speed Visual Estimation Using Preattentive Processing. Technical Report 93-51. Department of Computer Science, University of British Columbia.
- HEALEY, C.G., BOOTH & ENNS, J.T. (1992). Harnessing Preattentive Processes for Multivariate Data Visualization. Technical Report 92-39. Department of Computer Science, University of British Columbia.
- JANG, S., BOOTH, K.S., FORSEY, D.R. & GRAF, P. (1992). Investigating the Effectiveness of Direction Manipulation of 3D B-Spline Curves Using. Technical Report 92-40. Department of Computer Science, University of British Columbia.
- DYCK, V.A., BLACK, J.P. & BOOTH, K.S. (1989). Delivering a better introductory course in computer science (Report CS-89-07). University of Waterloo.
- BOOTH, K.S., GENTLEMAN, W.M. & SCHAEFFER, J. (1984). Anthropomorphic programming (Report CS-82-47). University of Waterloo.

- BOOTH, K.S., BARTELS, R.H., BEATTY, J.C. & FIELD, D.E. (1983). Computer Graphics Laboratory Fall 1983 Review (Report CS-83-33). University of Waterloo.
- BOOTH, K.S. & MACKAY, S.A. (1982). Frame buffer animation (Report CS-82-43). University of Waterloo.
- BOOTH, K.S. & PLEBON, D.A. (1982). Picture creation systems (Report CS-82-46). University of Waterloo.
- RYMAN, R.S., SINGH, B., BEATTY, J.C. & BOOTH, K.S. (1982). A graphics editor for Benesh dance notation (Report CS-82-41). University of Waterloo.
- BOOTH, K.S., BARTELS, R.H. & KOCHANNEK, D.H.U. (1982). A computer system for smooth keyframe animation (CS-82-42). University of Waterloo.
- BOOTH, K.S. (1980). Dominating sets in chordal graphs (CS-80-34). University of Waterloo.
- COLBOURN, C.J. & BOOTH, K.S. (1979). Linear time automorphism algorithms for trees, interval graphs and planar graphs (Report CS-79-08). University of Waterloo.
- BOOTH, K.S. & LIPTON, R.J. (1979). Computing extremal and approximate distances in graphs having unit cost edges (Report CS-78-08). University of Waterloo.
- BOOTH, K.S. & COLBOURN, C.J. (1979). Problems polynomially equivalent to graph isomorphism (Report CS-77-04). University of Waterloo.
- ADLEMAN, L., BOOTH, K.S., PREPARATA, F.P. & RUZZO, W.L. (1978). Improved time and space bounds for Boolean matrix multiplication (Report CS-78-21). University of Waterloo
- BOOTH, K.S., BARTELS, R.H. & BEATTY, J.C. (1981). Computer Graphics Laboratory Fall 1981 Review (CS-81-38). University of Waterloo.
- BOOTH, K.S. (1977). Boolean matrix multiplication in $O(n^{2.81} \log n)$ bit operations (Report CS-77-19). University of Waterloo.

3. BOOKS

(a) Authored

(none)

(b) Edited

BOOTH, K.S. & BEATTY, J.C. (Eds.) (1982). *Tutorial: Computer Graphics*. IEEE Computer Society.

BOOTH, K.S. (Ed.) (1979). *Tutorial: Computer Graphics*. IEEE Computer Society.

(c) Chapters

SHOEMAKER, G. & BOOTH, K.S. (2011). Whole body large display interfaces for users and designers. In *Whole Body Interaction*. Springer, London, 87-100.

4. PATENTS

SHOEMAKER, G. & BOOTH, K.S. (2009). Method and Device to Interact with Large Scale Displays. U.S. provisional patent. Filed August 29, 2008.

5. SPECIAL COPYRIGHTS

6. ARTISTIC WORKS, PERFORMANCES, DESIGNS

7. OTHER WORKS

SHOEMAKER, G., TANG, A.T. & BOOTH, K.S. (2007). Shadow Reaching: A new perspective on interaction for large wall displays. Video accompanying paper In *Proceedings of UIST 2007 – The 20th Annual ACM Symposium on User Interface Software and Technology*, October 7-10, Providence, RI, pp. 53-56. Accessible on-line in the ACM Digital Library:
<http://doi.acm.org/10.1145/1294211.1294221>

8. WORK SUBMITTED (including publisher and date of submission)

9. WORK IN PROGRESS (including degree of completion)