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Internal use	CID (if known)
163734	67357

Identification

Only the information in the Name section will be made available to selection committee members and external assessors. Citizenship and Statistical and Administrative Information will be used by SSHRC for administrative and statistical purposes only. Filling out the statistical and Administrative Information section is optional.

Name

Family name	Given name	Initials	Title
Fels	Deborah	I	Dr.

Citizenship - Applicants and co-applicants must indicate their citizenship status by checking and answering the applicable questions.

Citizenship status	<input checked="" type="radio"/> Canadian	<input type="radio"/> Permanent resident since (yyyy/mm/dd)	<input type="radio"/> Other (country)	Have you applied for permanent residency?
				<input type="radio"/> Yes <input type="radio"/> No

Statistical and Administrative Information

Birth year	Gender	Permanent postal code in Canada (i.e. K2P1G4)	Correspondence language	Previous contact with SSHRC? (i.e. applicant, assessor, etc.)
1963	<input checked="" type="radio"/> F <input type="radio"/> M	M5B2K3	<input checked="" type="radio"/> English <input type="radio"/> French	<input type="radio"/> Yes <input checked="" type="radio"/> No

Full name used during previous contact, if different from above

Contact Information

The following information will help us to contact you more rapidly. Secondary information will not be released by SSHRC without your express consent.

Primary telephone number				Secondary telephone number			
Country code	Area code	Number	Extension	Country code	Area code	Number	Extension
	416	9795000	7619				
Primary fax number				Secondary fax number			
Country code	Area code	Number	Extension	Country code	Area code	Number	Extension
	416	9795249					
Primary E-mail dfels@ryerson.ca							
Secondary E-mail							

Checked

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2013/02/26

Canada

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Identification

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Family name, Given name

Fels, Deborah

Current Address Use only if you are not affiliated with a department at a Canadian university. (If you are affiliated with a department at a Canadian university, the department's mailing address will be used.) If you wish to use another address, specify it under the Correspondence Address.			Correspondence Address Complete this section if you wish your correspondence to be sent to an address other than your current address.		
Address 350 Victoria St.			Address		
City/Municipality Toronto	Prov. / State ON	Postal/Zip code M5B2K3	City/Municipality	Prov. / State	Postal/Zip code
Country CANADA			Country		
Temporary Address If providing a temporary address, phone number and/or E-mail, ensure that you enter the effective dates.			Permanent Address in CANADA		
Address			Address		
City/Municipality	Prov./ State		City/Municipality	Prov./ State	Postal/Zip code
Country			Country		
Start date (yyyy/mm/dd)	End date (yyyy/mm/dd)	Temporary telephone/fax number Country code Area code Number Extension			
Temporary E-mail					



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Family name, Given name

Fels, Deborah

Research Expertise (optional)

The information provided in this section refers to your own research expertise, not to a research proposal. Filling out the following 4 sections is optional. This page will not be seen by selection committee members and external assessors. This section will be used for planning and evaluating programs, producing statistics, and selecting external assessors and committee members.

Areas of Research

Indicate and rank up to 3 areas of research that best correspond to your research interests as well as areas where your research interests would apply. Duplicate entries are not permitted.

Rank	Code	Area
1	244	Innovation, Industrial and Technological Development
2	100	Arts and culture
3	242	Information Technologies

Temporal Periods

If applicable, indicate up to 2 historical periods covered by your research interests.

From				To			
Year		BC	AD	Year		BC	AD
_____		<input type="radio"/>	<input type="radio"/>	_____		<input type="radio"/>	<input type="radio"/>
_____		<input type="radio"/>	<input type="radio"/>	_____		<input type="radio"/>	<input type="radio"/>

Geographical Regions

If applicable, indicate and rank up to 3 geographical regions covered by your research interests. Duplicate entries are not permitted.

Rank	Code	Region
1		
2		
3		

Countries

If applicable, indicate and rank up to 5 countries covered by your research interests. Duplicate entries are not permitted.

Rank	Code	Countries	Prov./ State
1			
2			
3			
4			
5			



Family name, Given name

Fels, Deborah

Curriculum Vitae

Language Proficiency

	Read	Write	Speak	Comprehend aurally	Other languages
English	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
French	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Work Experience

List the positions, academic and non-academic, you have held beginning with the current position and all previous positions in reverse chronological order, based on the start year.

Current position				Start date (yyyy/mm)
Full Professor				1995/9
Org. code	Full organization name			
1352011	Ryerson University			
Department/Division name				
School of Information Technology Management				
Position type	<input checked="" type="radio"/> Tenured	<input type="radio"/> Non-tenure	Employment status	<input checked="" type="radio"/> Full-time
	<input type="radio"/> Tenure-track	<input type="radio"/> Non-academic		<input type="radio"/> Part-time
				<input type="radio"/> Non-salaried
				<input type="radio"/> Leave of absence
Position			Start date (yyyy/mm)	End date (yyyy/mm)
Researcher			1994	1995
Org. code	Full organization name			
1	Bloorview MacMillan Children's Centre			
Department/Division name				
Microcomputer Applications Programme				
Position			Start date (yyyy/mm)	End date (yyyy/mm)
Assistant Professor			1993	1995
Org. code	Full organization name			
1350311	University of Guelph			
Department/division name				
Computing and Information Science				
Position			Start date (yyyy/mm)	End date (yyyy/mm)
Teaching Assistant			1990	1993
Org. code	Full organization name			
1350911	University of Toronto			
Department/Division name				
Faculty of Applied Science & Engineering				

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Fels, Deborah

Work Experience (cont'd)

Position		Start date (yyyy/mm)	End date (yyyy/mm)
Director		1987	1990
Org. code	Full organization name		
1	Centenary Hospital		
Department/Division name			
Medical Engineering			
Position		Start date (yyyy/mm)	End date (yyyy/mm)
Org. code	Full organization name		
Department/Division name			
Position		Start date (yyyy/mm)	End date (yyyy/mm)
Org. code	Full organization name		
Department/Division name			
Position		Start date (yyyy/mm)	End date (yyyy/mm)
Org. code	Full organization name		
Department/Division name			
Position		Start date (yyyy/mm)	End date (yyyy/mm)
Org. code	Full organization name		
Department/Division name			



Family name, Given name

Fels, Deborah

Academic Background

List up to 5 degrees, beginning with the highest degree first and all others in reverse chronological order, based on the start date.

Degree type	Degree name	Start date (yyyy/mm)	Expected date (yyyy/mm)	Awarded date (yyyy/mm)
Doctorate	PhD, Industrial Engineering	1990/09		1994/11
Disc. code	Discipline	Did SSHRC support enable you to get this degree?		
80800	Engineering	<input type="radio"/> Yes <input checked="" type="radio"/> No		
Org. code	Organization			
1350911	University of Toronto			
Country CANADA				
Degree type	Degree name	Start date (yyyy/mm)	Expected date (yyyy/mm)	Awarded date (yyyy/mm)
Master's	M.HSc. - Clinical Engineering	1985/09		1987/11
Disc. code	Discipline	Did SSHRC support enable you to get this degree?		
80800	Engineering	<input type="radio"/> Yes <input checked="" type="radio"/> No		
Org. code	Organization			
1350911	University of Toronto			
Country CANADA				
Degree type	Degree name	Start date (yyyy/mm)	Expected date (yyyy/mm)	Awarded date (yyyy/mm)
BA Hon.	B.A.Sc.	1980/09		1985/06
Disc. code	Discipline	Did SSHRC support enable you to get this degree?		
80800	Engineering	<input type="radio"/> Yes <input checked="" type="radio"/> No		
Org. code	Organization			
1350311	University of Guelph			
Country CANADA				
Degree type	Degree name	Start date (yyyy/mm)	Expected date (yyyy/mm)	Awarded date (yyyy/mm)
Disc. code	Discipline	Did SSHRC support enable you to get this degree?		
		<input type="radio"/> Yes <input type="radio"/> No		
Org. code	Organization			
Country				
Degree type	Degree name	Start date (yyyy/mm)	Expected date (yyyy/mm)	Awarded date (yyyy/mm)
Disc. code	Discipline	Did SSHRC support enable you to get this degree?		
		<input type="radio"/> Yes <input type="radio"/> No		
Org. code	Organization			
Country				

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Fels, Deborah

Credentials

List up to 6 licences, professional designations, awards and distinctions you have received and feel would be the most pertinent to the adjudication of your application. List them in reverse chronological order, based on the year awarded.

Category	Name	Source or Country	Duration (Months)	Value / Year awarded
Academic Prize	Sarwan Sahota Award	CANADA		\$0 2009
Non-Academic Prize	Top 40 Under 40	CANADA		2001
Non-Academic Prize	Global Bangemann Challenge Award in IT in All Form	SWEDEN		1999
Non-Academic Prize	International Patent	CANADA		1999
Non-Academic Prize	Technology in Government 1999 Distinction Award	CANADA		1999
Professional Designation	Professional Engineer	CANADA		1990

Research Expertise

The information provided in this section refers to your own research expertise, not to a research proposal.

Keywords

List keywords that best describe your areas of research expertise. Separate keywords with a semicolon.

Assistive technology; Accessible media and entertainment; Human-computer interaction;

Disciplines

Indicate and rank up to 5 disciplines that best correspond to your research interests. Duplicate entries are not permitted.

Rank	Code	Discipline	If Other, specify
1	80200	Computer and Information Science and Operations Research	
2	80800	Engineering	
3	99999	Other	Human Factors
4			
5			

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Family name, Given name

Fels, Deborah

Funded Research

List up to 8 grants or contracts you have received from SSHRC or other sources. List them in reverse chronological order, based on the year awarded. If you are not the applicant (principal investigator), specify that persons' name.

Org. code	Full name of funding organization	Year awarded (yyyy)	Total amount (CAN\$)
3010325	Social Sciences and Humanities Research Council of Canada	2012	\$196,000
Role	Co-applicant	Completion status	<input type="checkbox"/> Complete
Project title Intimate Interfaces			
Applicant's family name		Applicant's given name	Initials
Gurevich		Maria	
Org. code	Full name of funding organization	Year awarded (yyyy)	Total amount (CAN\$)
1	NIH Small Business Initiative	2011	\$350,000
Role	Co-applicant	Completion status	<input type="checkbox"/> Complete
Project title Terptube			
Applicant's family name		Applicant's given name	Initials
Roush		Daniel	
Org. code	Full name of funding organization	Year awarded (yyyy)	Total amount (CAN\$)
1	National Institute of Health	2010	\$300,000
Role	Co-applicant	Completion status	<input type="checkbox"/> Complete
Project title Crowd-sourced audio description			
Applicant's family name		Applicant's given name	Initials
Miele		Joshua	
Org. code	Full name of funding organization	Year awarded (yyyy)	Total amount (CAN\$)
3010316	Natural Sciences and Engineering Research Council of Canada	2010	\$280,000
Role	Applicant	Completion status	<input type="checkbox"/> Complete
Project title Discovery Grant + Accelerator supplement			
Applicant's family name		Applicant's given name	Initials

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Family name, Given name

Fels, Deborah

Funded Research (cont'd)

Org. code	Full name of funding organization	Year awarded (yyyy)	Total amount (CAN\$)
3010325	Social Sciences and Humanities Research Council of Canada	2009	\$40,000
Role	Applicant	Completion status	<input type="checkbox"/> Complete
Project title	Developing a framework for vibrotactile composition and performance		
Applicant's family name	Applicant's given name	Initials	
Org. code	Full name of funding organization	Year awarded (yyyy)	Total amount (CAN\$)
1	National Centre of Excellence	2009	\$5,000,000
Role	Collaborator	Completion status	<input type="checkbox"/> Complete
Project title	GRAND		
Applicant's family name	Applicant's given name	Initials	
Booth	Kelly		
Org. code	Full name of funding organization	Year awarded (yyyy)	Total amount (CAN\$)
1	Canada Foundation for Innovation	2009	\$30,000,000
Role	Co-applicant	Completion status	<input type="checkbox"/> Complete
Project title	Inclusive design institute		
Applicant's family name	Applicant's given name	Initials	
Treviranus	Jutta		
Org. code	Full name of funding organization	Year awarded (yyyy)	Total amount (CAN\$)
3010325	Social Sciences and Humanities Research Council of Canada	2007	\$1,000,000
Role	Applicant	Completion status	<input checked="" type="checkbox"/> Complete
Project title	Accessible Entertainment		
Applicant's family name	Applicant's given name	Initials	

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Research Contributions (2007-2013)

A. Selected refereed contributions (students indicated in bold)

Book Chapter

R*	Udo, J.P. & Fels, D.I. (2010). From the describer's mouth: reflections on creating unconventional audio description for live theatre. In Serban, A. & Lavaur, J.M (eds.) <i>Audio Visual Translation</i> . Peter Lang Publishing Group, New York.
R*	Udo, J.P. & Fels, D.I. (2010). Exemption or not? Copyright and perceptual disability for accessible media. In Coombs, R. & Wershler, D. (eds.) <i>Dynamic Fair Dealing: Creating Canadian Culture Online</i> .

Journal articles

R*	Whitfield, M., Fels, D.I. (2013). Inclusive design, audio description, and diversity of theatre experiences. <i>The Design Journal</i> . 16(2). 219-238
R*	Ammirante, P, Russo, F.A., Good, A., Fels, D.I. (2012). Feeling voices. PLOS-ONE. Online at http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0053585 .
R*	Russo, F.A, Ammirane, P. & Fels, D.I. (2012). Vibrotactile discrimination of musical therapy. <i>Journal of Experimental Psychology: Human Perception and Performance</i> . 38(4). 822-826.
R*	Smith, D. & Fels, D.I. (2012). The disintegrated erotics of second life. <i>The International Journal of the Image</i> . 2(3). 125-138.
R	Branje, C.J. & Fels, D. (2012). Can amateurs create quality audio description. <i>J. Visual Impairment and Blindness</i> . 106(3).
R	Fels, D.I., & Astell, A. (2011). Storytelling as a model of Conversation for People with Dementia and Caregivers. <i>American Journal of Alzheimers Disease and Other Dementias</i> . 26(7). 535-541.
R*	Udo, J.P., Copeland, L., Fels, D.I. (2011). Producing audio described theatre: Views from a director and blind describer. <i>International Journal of Translation Studies</i> . 23(2). 59-79.
R	Fels, D.I. & Gedeon, S.A. (2011). Understanding motivations of entrepreneurs in the assistive technology market. <i>Disability and technology</i> . 23(2). 53-64.
R*	Vy, Q. , and Fels, D. (2011) Enhanced captioning speaker identification: Text vs. images. <i>Telecommunications Journal of Australia</i> . Awarded Telstra-TJA Christopher Newell Prize - 2 nd place. 61(2). 29.1-29.13. http://tja.org.au .
R	Karam, M., Branje, C. Udo, JP, Russo, R., Fels, D.I. (2010). Evaluating a tactile display in a public setting. <i>Journal of Usability Studies</i> . 5(4). 132-146.
R*	Udo, J.P. & Fels, D.I. (2010). Horatio audio-describes Shakespeare's Hamlet. <i>British Journal of Disability</i> . 28(2). 139-156.
R*	Udo, J.P. & Fels, D.I. (2010). Universal design on stage: Live audio description for theatrical performances. <i>Perspectives: Studies in Translatology</i> . 18 (3). 189-203
R*	Udo, JP, Fels, D.I. (2010). Refashioning fashion. <i>Universal Access and the Information Society</i> . 9(1). 63-75. Available electronically at www.springerlink.com/openurl.asp?genre=article&id=doi:10.1007/s10209-009-0156-1
R*	Udo, JP., Fels, D.I., (2010). Enhancing the entertainment experience of blind and low-vision theatre-goers through touch tours. <i>Disability and Society</i> . 25(2). 231-240.
R*	Udo, JP., & Fels, D.I. (2009). The rogue poster-children of universal design: Closed captioning and audio description. <i>Journal of Engineering Design</i> . 21(2). Pp 207-221..
R*	Udo, J.P., Fels, D.I. (2009). A Dramatic Adaptation: Sighted children audio describe school play for a blind and low-vision audience. <i>International Journal of Education and the Arts</i> . 10(20). Available electronically from www.ijea.org/v10n20/
R	Karam, M., Russo, F.A., & Fels, D.I. (2009). Designing the Model Human Cochlea: An Ambient Crossmodal Audio-Tactile Display. <i>IEEE Transactions on Haptics</i> . 2(3). 160-169.

R	Udo, JP, & Fels, D.I. (2009). Suit the action to the word, the word to the action”: An unconventional approach to describing Shakespeare’s Hamlet. <i>J. Visual Impairment and Blindness</i> . 103(3). 178-184
R	Rashid, R., Vy, Q., Hunt, R., & Fels, D.I. (2008). Dancing with words. <i>International Journal of Human-Computer Interaction</i> . 24(5). 505 - 519.
R	Konstantinidis, B., Price, E., & Fels, D.I. (2008). Described video information and animation: a case study of Odd Job Jack. <i>International J. of Social and Humanistic Computing</i> . 1(1). 108 – 122.
R	Lee, D.G., Udo, JP., Fels, D.I. (2007). Enhanced captions. <i>Computers and Entertainment</i> . 5(2).

B. Other refereed contributions - selected listing (students listed in bold)

Conference proceedings

R*	Pouris, M. & Fels, D. I. (2012). Creating an entertaining and informative music visualization. <i>ICCHP 2012</i> . Linz. pp. 451-458.
R*	Baijal, A., Kim, J., Branje, C., Russo, F.A., Fels, D.I. (2012). Composing vibrotactile music: A multi-sensory experience with the Emoti-Chair. <i>IEEE Haptics</i> . Vancouver. Pp. 509-515.
R	Bajko, R., & Fels, D.I. (2011). Mobile telephone Usage and Perception During Group Meetings. CONISAR. North Carolina. Winner, Meritorious PhD paper award
R	Hibbard, E., Fels, D.I. (2011). The vlogging phenomena: A Deaf perspective. <i>ASSETS 2011</i> . Dundee. Pp. 59-66.
R	Webster, G. Fels, D.I., Gowans, G., Hanson, V.L. (2011). Portraits of individuals with dementia: videos of care managers. <i>British HCI</i> . Bath. pp. 331-340.
R*	Naraine, M., & Fels, D.I. (2011). When audio description came to town. A longitudinal study. <i>FICCDAT</i> . Toronto.
R	Fels, D.I. & Astell, A. (2011). Let me tell you a story: A model of conversation for people with dementia. <i>CHI workshop: CHI Bridging practices, theories and technologies to support reminiscence</i> . Vancouver.
R*	Fels, D.I., Gerdzhev, M., Ho, J., Hibbard, E. (2010) Usability and use of SLS:Caption. <i>ASSETS2010</i> . Orlando. Pp. 291-292.
R*	Vy, Q. V., & Fels, D.I. (2010). Enhanced captioning: Using avatars for speaker identification. <i>ICCHP 2010</i> . Vienna. Pp. 247-254.
R	Karam, M., Branje, C., Nespoli, G. Thompson, N., Russo, F.A., Fels, D.I. (2010) The Emoti-Chair – An interactive cross-modal tactile music display. <i>CHI2010</i> . Atlanta. Pp. 3069-3074.
R	Karam, M., Branje, C., Russo, F., Fels, D.I. (2010). Vibrotactile display of music on the human back. <i>ACHI2010</i> . Barcelona. Pp 154-159.
R*	Mori, J. & Fels, D.I. (2009). See the music: Can animated lyrics provide access to the emotions in music for people who are deaf or hard of hearing? <i>IEEE Toronto International Conference – Science Technology for Humanity</i> . Toronto. Pp. 951-956.
R*	Fourney, D., & Fels, D.I. (2009). Creating access to music through visualization. <i>IEEE Toronto International Conference – Science Technology for Humanity</i> . Toronto. Pp. 939-944.
R	Branje, C., Maksimowski, M., Nespoli, G., Karam, M., Fels, D. I. & Russo, F. (2009). Development and validation of a sensory-substitution technology for music. <i>2009 Conference of the Canadian Acoustical Association</i> . Niagara on the Lake.
R	Russo, F.A., Maksimowski, M., Karam, M. and D. I. Fels. D.I. (2009). Vibrotactile discrimination of musical timbre. <i>Society for Music Perception and Cognition</i> . Windsor.
R	Fels, D.I., Gerdzhev, M., Hibbard, E., Goodrum, A., & Richards, J. (2009). Sign language online with Signlink Studio 2.0. <i>HCI International</i> . San Diego.
R*	Vy, Q., & Fels, D.I., (2009). Who's Saying What? Using Avatars for Speaker Identification. <i>Interact 2009</i> . Uppsala. Pp. 916-919.
R*	Vy, Q. V., Mori, J., Fourney, D., & Fels, D.I. (2008). EnACT: A software tool for creating animated text captions. <i>ICCHP 2008</i> . Linz. pp. 609-616.
R	Karam, M., Branje, C., Price, E., Russo, F., & Fels, D.I. (2008). Towards A Model Human Cochlea:

Deborah I. Fels

	Sensory substitution for crossmodal audio-tactile displays. <i>Proceedings of Graphics Interface 2008</i> . Windsor. pp 267-274.
R	Karam, M., & Fels, D.I. (2008). Designing a Model Human Cochlea: Issues and challenges in crossmodal audio to touch displays. <i>Haptics in ambient systems</i> . Quebec City.
R	Rashid, R., Vy, Q., Hunt, R., & Fels, D.I. (2007). Dancing with words. <i>Creativity and Cognition 2007</i> . Washington DC. pp. 269-270.

My role in co-authored publications is to contribute at least one section of the paper, often it is a component of the introduction and discussion sections of the paper, and the statistical analysis.

C. Non-refereed contributions – selected listing (I = independent)

	<u>Guest co-editor</u> . Technology and Disability Journal (issue 1 of 2014).
I	<u>Invited seminar</u> : Inclusive Design. University of Surrey, Faculty of Management. Oct. 2011
	<u>Invited demonstration and presentation</u> : Inclusive Design and Media Access. Turner Broadcasting Inc. Oct. 2011
I	Inclusive gaming. <u>Public lecture</u> . University of Dundee. Dundee, Scotland. Dec. 2009.
	Alternative approaches for Closed Captioning & Audio Description. <u>Invited Presentation</u> at Accessibility Hearings at CRTC. Nov. 2008

D. Forthcoming contributions

In Press	Bajko, R. & Fels, D. I. (2013). Meeting participant perception and usage of smartphones and other mobile devices during meetings. Accepted to IEEE Professional Communication.
In Press	Branje, C.J., Nespoli, G., Russo, F., Fels, D.I. The horror of vibrotactile stimulation. <i>ACM Computers and Entertainment</i> .
In Press	Webster, G., Fels, D. Portraits of people with dementia. <i>American Journal of Alzheimers Disease and Other Dementias</i> .
In Press	Naraine, M. Fels, D.I., Lindsay, P. Workplace social inclusion of blind employees. <i>British Journal of Visual Impairment</i> .

E. Literary and artistic works

Installation	An Evening of Sensory Fusion. Installation of Emoti-Chair at Petit Nuit Blanche. Museum London, London, Ont. June 2012.
Installation	Vlogging at the DCC. Nuit Blanche <u>exhibit</u> at the Deaf Culture Centre. Toronto, Ont. Oct. 1, 2011
Installation	Vibes! Feel It!. Deaf Culture Centre. Toronto. Oct. 2, 2010
Installation	Enhanced captioning <u>exhibit</u> . Deaf Culture Centre. Toronto. Dec. 08-pres.
Concert	Feel the Music: <u>Concert</u> at Clinton's Tavern. Five live bands and Emoti-chairs. Mar. 09.
Installation & concert	Emoti-chair: <u>Exhibit</u> at Ontario Science Centre. Weston Family Ideas Centre. Sept. 08-Jan.09. Live <u>concert</u> with three live bands and the Emoti-chairs. Oct. 2008.

2. Other Research Contributions

A. Patents:

Provisional US Patent: Model Human Cochlea (submitted May 2009).

B. Media articles

In 2008-2009 there have been over 77 media reports on the Emoti-chair. For example:

Radio - "The Emoti-chair" CBC Hear and Now Interview by Matt Gallaway, Feb. 8, 2009.

Television – "Can This Chair Really Allow Deaf People to Feel What It's Like at a Concert?" CBC News and Current Affairs as reported by Deana Sumanac. Aired March 8, 2009.

Print media - "Emoti-chair delivers good vibrations to deaf" by Debra Black. The Toronto Star, Tuesday July 2, 2008, Section A1, page 1.

3. Most Significant Career Research Contributions

1. Vy, Q., and Fels, D. (2011) Enhanced captioning speaker identification: Text vs. images. *Telecommunications Journal of Australia*. Awarded Telstra-TJA Christopher Newell Prize - 2nd place. 61(2). 29.1-29.13. <http://tja.org.au>.
2. Udo, JP., & Fels, D.I. (2009). The rogue poster-children of universal design: Closed captioning and audio description. *Journal of Engineering Design*. 21(2). Pp 207-221.
3. Karam, M., Russo, F.A., & Fels, D.I. (2009). Designing the Model Human Cochlea: An Ambient Crossmodal Audio-Tactile Display. *IEEE Journal on Haptics*. <http://doi.ieeecomputersociety.org/10.1109/TOH.2009.32>.
4. Udo, JP, & Fels, D.I. (2009). Suit the action to the word, the word to the action”: An unconventional approach to describing Shakespeare’s Hamlet. *J. Visual Impairment and Blindness*. 103(3). 178-184.
5. Rashid, R., Vy, Q., Hunt, R., & Fels, D.I. (2008). Dancing with words. *International Journal of Human-Computer Interaction*. 24(5). 505 - 519.

I am developing a significant body of research on exploring and developing tools and processes for accessible digital media including on-line video content, digital broadcast content, music and digital film. These five papers represent the most recent work that has been carried out by Dr. Fels and are some of the first papers to be published in this area. In particular, the Emoti-chair represents a universal design and sensory substitution approach to inclusive music, composition and performance that may have wide-spread applications and commercialization opportunities.

We are also beginning to transfer the research to the community. We introduced audio description to Canada with the first described presentation of a live theatre production, Hamlet, in November 2006 at Hart House Theatre in Toronto. Since 2006, we have worked with nine different theatre and performance groups to produce described versions of their productions. Each group has taken a different approach offering the opportunity to explore the creative potential for audio description. Further, we worked with Deluxe Inc. to create and deliver audio description in conjunction with television producers resulting in the 2010 CBC broadcast of the Kids in the Hall mini-series, Death Comes to Town.

4. Contributions to Training

2009-present Post doctoral fellow, Mala Naraine.

2007-2010 Post doctoral fellow, Maria Karam.

Graduate Student Supervision – PhD (past 6 years)

Year	Name	Program	University
2013-present	Katie Seaborn	Industrial Engineering (co-supervisor)	Toronto
2009-2011	Gemma Webster	Computing (co-supervisor)	Dundee, UK
2009-present	Carmen Branje	Industrial Engineering (co-supervisor)	Toronto
2008-2011	David Smith	Communication & Culture	York
2007-present	Ellen Hibbard	Communication & Culture	Ryerson
2006-present	Robert Bajko	Communication & Culture	Ryerson

Graduate Student Supervision – Masters (past 6 years – selected list)

Year	Name	Program	University
2012-present	Joe <u>Moscatiello</u>	MASc., Computer Science	Ryerson
2011-present	Greg Dolinar	MMSc. Management of IT	Ryerson
2011-present	Xue Fei	MMSc. Management of IT	Ryerson
2011-present	Mike Pouris	MASc., Computer Science	Ryerson
2010-2013	Sai Cherkumilli	MASc., Computer Science	Ryerson

2003-2010 Dr. Fels has served on numerous Master and PhD committees as a committee member or external examiner.