

**THE UNIVERSITY OF BRITISH COLUMBIA**  
**Curriculum Vitae for Faculty Members**

**Date:** September 15, 2015

**Initials:**

1. **SURNAME:** Beznosov **FIRST NAME:** Konstantin  
**MIDDLE NAME (S):**

2. **DEPARTMENT/SCHOOL:** Electrical and Computer Engineering

3. **FACULTY:** Applied Science

4. **PRESENT RANK:** Associate Professor **SINCE:** 01 / Jul / 2010

5. **POST-SECONDARY EDUCATION**

University or Institution	Degree	Subject Area	Dates
Florida International University, Miami, FL, USA	Ph.D. <sup>1</sup>	Computer Science	Aug / 2000
Florida International University, Miami, FL, USA	M.Sc.	Computer Science	Aug / 1997
Novosibirsk State University, Novosibirsk, Russia	B.Sc.	Physics	Jun / 1993

(a) *Special Professional Qualifications*

- Professional Engineer (P.Eng.) licensed by the Association of Professional Engineers and Geoscientists of British Columbia (APEGBC), license # 33845, since 22 / Sep / 2009.

(b) *Continuing Education / Training (attended)*

- Landmark Seminar "Landmark Forum in Action" 28 / Jan / 2014 – 13 / May / 2014, 8 sessions.
- Landmark Forum, 17-21 / Jan / 2014.
- Workshop on "Graduate Student Supervision - Maintaining Momentum," TAG & FoGS, 08 / Oct / 2009.
- 1-on-1 session with TAG faculty members Luisa Canuto and Sarah Moore with detailed analysis of students feedback and EECE 310 course design, 18 / Aug / 2009.
- Workshop on Preparing to be a Peer Reviewer, UBC, 11 / Jun / 2007
- Faculty Certificate Program on Teaching and Learning in Higher Education, UBC, Sep / 2003 – May / 2004. This was a year-long program with ½-day interactive sessions held weekly.
- Teaching and Academic Growth Instructional Skills Workshop, UBC, Oct / 2003
- "Cryptography and Computer Security", Summer Program, MIT, Aug / 2002; Instructors: Shafi Goldwasser (MIT), Mihir Bellare (UCSD)

6. **EMPLOYMENT RECORD**

(a) *Prior to coming to UBC*

University, Company or Organization	Rank or Title	Dates
Quadraxis, Hitachi Computer Products (America), Inc., Waltham, MA, USA	Security Architect	Aug / 2001 – Jan / 2003

---

<sup>1</sup> "Engineering Access Control for Distributed Enterprise Applications" (Yi Deng)

Concept Five Technologies, Vienna, VA, USA	Security Architect	Aug / 2000 – Aug / 2001
Florida International University, Miami, FL, USA	Research Associate	Aug / 1999 – Aug / 2000
Baptist Health Systems of South Florida, Miami, FL, USA	Information Security Architect	May / 1997 – Jul / 2000
Florida International University, Miami, FL, USA	System Developer	May / 1995 – Dec / 1996
Florida International University, Miami, FL, USA	Research Assistant	Aug / 1994 – Jul / 1999
Budker Institute of Nuclear Physics, Novosibirsk, Russia	Assistant System Administrator and Analyst	Sep / 1991 – Jul / 1994

(b) *At UBC*

Rank or Title	Dates
Associate Professor	Jul / 2010
Assistant Professor	Sep / 2003

(c) *Date of granting of tenure at UBC: July 2010*

## 7. LEAVES OF ABSENCE

(a) *Sabbaticals*

- *Jan / 2011 – Dec / 2011*

## 8. TEACHING

(a) *Briefly describe areas of special interest and accomplishments*

My industrial experience, international learning background, and pedagogical training at UBC TAG (Faculty Certificate Program on Teaching and Learning in Higher Education) have shaped my philosophy of teaching in higher education. The six pillars that I believe are paramount to my students' ability to become life-time learners and successful engineers are: **self-directed learning** skills, knowledge of the field's **fundamental principles**, **critical thinking**, **creativity**, **team work**, and **communication skills**.

While teaching EECE 412 / CPEN 442 "Introduction to Computer Security," I've introduced term projects, in which student groups analyze security of real-world system. Together with UBC IT Security and UBC Legal, we have developed a process that allows students to engage with the owners of UBC and third party computer systems with minimum legal risk and streamlined logistics. As a result, the students obtain unique experience of applying the concepts and other technical knowledge learned in the course to hands-on analysis of real-world systems. They also practice team work, creativity, critical thinking, and communication skills by the way of engaging with the system owners, coordinating their projects, writing project report and presenting their results at the mini-conference, at the end of the course.

To balance between the learning of fundamental principles, the practicality of the learning outcomes, and the development of self-directed learning skills, I incorporate elements of the problem-based learning (PBL) method into my course design. My students develop critical thinking skills through frequent **class and group discussions**, "**flip-lectures**". They practice team work and communication skills by (1) **in-class group work**, (2) making numerous technical **assignments in small groups**, (3) **presenting their projects** at the end of the course to the panel of juries from the local companies specializing in IT security, as well as (4) reporting results of the term projects in the form of **written reports**.

The students in CPEN 442 also significantly benefit from guest lectures given by the experts from local IT security industry, e.g., Sophos Labs (AV company), TELUS, Fortinet (firewall and network security), Mozilla.

One term project in my EECE 412 / CPEN 442 "Introduction to Computer Security" course was further developed by its authors and presented at the EuroSec Workshop on 31 / Mar / 2009.

(b) *Courses Taught at UBC*

Year/ Term	Course Number	Scheduled Hours	Class Size	Total Hours Taught			
				Lectures	Labs	Tutorials	Other
2003W T2	EECE 440	3-0-0	22	39	0	0	0
2004W T1	EECE 310 <sup>2</sup>	3-2-0	28	20	6	0	0
2004W T1	EECE 412	3-0-0	38	39	0	0	3
2004W T2	EECE 310 <sup>2</sup>	3-2-0	29	39	13	0	0
2004W T2	EECE 512	3-0-0	14	39	0	0	0
2005W T1	EECE 412	3-0-0	42	39	0	0	0
2005W T1	EECE 310	3-2-0	14	39	24	0	0
2006W T1	EECE 310	3-2-0	35	39	24	0	0
2006W T2	EECE 310	3-2-0	29	39	24	0	0
2006W T2	EECE 412	3-0-0	44	39	0	1	0
2006W T2	EECE 512	3-0-0	4	39	0	0	0
2007W T1	EECE 310	3-2-0	53	39	24	0	0
2007W T1	EECE 412	3-0-0	52	39	0	0	0
2007W T2	EECE 512	3-0-0	10	39	0	0	0
2008W T1	EECE 310	3-2-0	44	39	24	0	0
2008W T1	EECE 412	3-0-0	39	39	0	0	0
2008W T2	EECE 310	3-2-0	33	39	24	0	0
2009W T1	EECE 310	3-2-0	52	39	24	0	0
2009W T1	EECE 412	3-0-0	40	39	0	0	0
2009W T2	EECE 320	3-0-0	22	39	0	0	0
2010W T1	EECE 412	3-0-0	45	39	0	0	0
2011W T2	EECE 571B	3-0-0	24	39	0	0	0
2012W T1	EECE 412	3-0-0	60	39	0	0	0
2012W T2	EECE 320	3-0-2	24	39	0	26	0
2012W T2	EECE 512	3-0-0	8	39	0	0	0
2013W T1	EECE 412	3-0-0	66	39	0	0	8
2013W T1	EECE 512	3-0-0	6	39	0	0	0
2013W T2	EECE 320	3-0-2	25	39	0	26	0
2013S T1	CICS 518	3-0-0	32	39	0	0	0
2014W T1	EECE 412	3-2-0	80	39	0	0	0
2014W T2	EECE 571C	3-0-0	4	39	0	0	0
2015W T1	CPEN 321	3-2-0	113 <sup>3</sup>	39	24	0	0
2015W T1	CPEN 442	3-2-0	78 <sup>3</sup>	39	0	0	0

CPEN 321: Software Engineering  
 CPEN 442: Introduction to Computer Security  
 EECE 310: Software Engineering  
 EECE 320: Discrete Structures and Algorithms  
 EECE 412: Introduction to Computer Security

<sup>2</sup> Shared 50% of the course teaching load with Philippe Kruchten.

<sup>3</sup> As of September 15, 2015.

EECE 440: Advanced Object Orientation  
 EECE 512: Topics in Computer Security  
 EECE 571B: Computer Security  
 CICS 518: Computer and Information System Security  
 EECE 571C: Mobile Security and Privacy

(c) *Graduate Students Supervised at UBC*

Student Name	Program	Year		Principal Supervisor	Co-Supervisor(s)
		Start	Finish		
Wei, Qiang	Ph.D.	Sep / 2004	Nov / 2009	<b>K. Beznosov (60%)</b>	M. Ripeanu (40%)
Sun, San-Tsai	Ph.D.	Sep / 2007	Nov / 2013	K. Beznosov	-
Jaferian, Pooya	Ph.D.	Sep / 2007	Nov / 2014	K. Beznosov	-
Boshmaf, Yazan <sup>5</sup>	Ph.D.	Sep / 2009	May / 2015	<b>K. Beznosov (50%)</b>	M. Ripeanu (50%)
Muslukhov <sup>6</sup> , Ildar	Ph.D.	Sep / 2010		K. Beznosov	-
Wijesekera, Primal	Ph.D.	Sep / 2013		<b>K. Beznosov (50%)</b>	S. Egelman, UCB (50%)
Song, Yong (James)	M.A.Sc.	Sep / 2003	Nov / 2004	V. Leung (50%)	<b>K. Beznosov (50%)</b>
Darwish, Wesam <sup>7</sup>	M.A.Sc.	Jan / 2005	May / 2009	K. Beznosov	-
Zeeuwen, Kyle	M.A.Sc.	Aug / 2005	Oct / 2011	<b>K. Beznosov (60%)</b>	M. Ripeanu (40%)
Werlinger, Rodrigo	M.A.Sc.	May / 2006	Aug / 2008	K. Beznosov	-
Raja, Fahimeh	M.A.Sc.	Sep / 2007	May / 2011	K. Beznosov	-
Kini, Pranab	M.A.Sc.	Jan / 2008	Nov / 2010	K. Beznosov	-
Motiee, Sara	M.A.Sc.	Sep / 2008	Nov / 2011	K. Beznosov	-
Sotirakopoulos, Andreas	M.A.Sc.	Sep / 2009	Dec / 2011	K. Beznosov	-
Torabi, Sadegh <sup>9</sup>	M.A.Sc.	Sep / 2011		K. Beznosov	-
Rashitan, Hootan	M.A.Sc.	Mar / 2012	July / 2014	K. Beznosov	-
Cherapau, Ivan	M.A.Sc.	Sep / 2013	July / 2015	K. Beznosov	-
Kashani, Salma	M.A.Sc.	Jun / 2015		M. Ripeanu (70%)	<b>K. Beznosov (30%)</b>
Qiu, Lina	M.A.Sc.	Sep / 2015		K. Beznosov	-
Markandan, Kartik <sup>10</sup>	M.Eng.	Jan / 2004	Nov / 2008	K. Beznosov	-
Tsai, Johnson	M.Eng.	Sep / 2004	May / 2006	K. Beznosov	-
Xu, Kai	M.Eng.	Sep / 2007	May / 2010	K. Beznosov	-
Ganelin, Ilya	M.Eng.	Sep / 2013	Aug / 2014	K. Beznosov	-

## Postdoctoral Fellows Supervised at UBC

Student Name	Year		Principal Supervisor	Co-Supervisor(s)
	Start	Finish		
Asanka, Nalin	Apr / 2014	Apr / 2015	K. Beznosov	
Sun, San-Tsai (part-time)	Jan / 2014		K. Beznosov	
Kim, Hyoungshick	Mar / 2012	Feb / 2013	K. Beznosov	
Hawkey, Kirstie	Jun / 2007	Dec / 2010	K. Beznosov (60%)	K. Booth, CS (40%)

<sup>5</sup> Mr. Boshmaf did internships at Facebook, Menlo Park, CA, Microsoft Research, and Telefonica Labs, as well as MITACS Accelerate Research internship at Sophos Labs, Vancouver.

<sup>6</sup> Mr. Muslukhov has successfully passed Ph.D. qualifying examination on 2012-03-19. He did an internship at Google in the fall of 2013 and 2014.

<sup>7</sup> Mr. Darwish worked full time in industry throughout his Masters studies.

<sup>9</sup> Mr. Torabi has switched from Ph.D. to M.A.Sc. in January 2015.

<sup>10</sup> Mr. Markandan was a part-time student at UBC due to his disability status.

Student Name	Year		Principal Supervisor	Co-Supervisor(s)
	Start	Finish		
Muldner, Kasia	Jul / 2007	Jul / 2008	K. Beznosov	

#### Non-UBC Graduate Students Supervised at UBC

Students listed in the following table are all exchange students who joined my research group in order to do their theses/dissertations. The topics and the research itself were all conceived, designed, and executed under my sole supervision.

Student Name	Program	Year		Principal Supervisor	Co-Supervisor(s)
		Start	Finish		
Kohler, Mathias <sup>12</sup>	Masters	Mar / 2005	Oct / 2005	<b>K. Beznosov (90%)</b>	D. Fischer, University of Applied Sciences, Offenburg, Germany (10%)
Monticelli, Fabrizio <sup>13</sup>	Masters	Jan / 2008	Nov / 2008	Dr. S. Zanero, Politecnico di Milano (50%)	<b>K. Beznosov (50%)</b>
Mahfouz, Ahmed	Ph.D.	Dec / 2013		<b>K. Beznosov (90%)</b>	T. M. M. Shehata, Minia University, Egypt
Cuadros Casta, Andrea	Masters	Mar / 2015		<b>K. Beznosov (90%)</b>	M. Soriano, Universitat Politècnica de Catalunya

#### (d) Continuing Education Activities (provided)

- 21 / Nov / 2003, UBC Certificate Program on Teaching and Learning in Higher Education, delivered peer-led workshop: "Assessment of Student Learning"
- Oct / 1998, Center for Advanced Distributed Systems Engineering (CADSE), Florida International University, presentation: "Computer and Distributed Security: Introductory Overview for Researchers."

#### (e) Visiting Lecturer (indicate university/organization and dates)

- 06 / Aug / 2009 ISSNet Summer School in Computer Security, Ottawa, ON. Gave a lecture on "Access Control."
- 28 / Feb / 2004 – 05 / Mar / 2004, Solvay Business School, Katholieke Universiteit Leuven, Brussels, Belgium. Gave five lectures for course "Secure Application Development".<sup>14</sup>
- 08 / Mar / 2000, Florida International University, lecture in graduate course "Topics in Concurrent and Distributed Systems". Lecture entitled "Overview of CORBA Security".

#### (f) Other

<sup>12</sup> Mr. Kohler was an exchange student from the University of Applied Sciences in Offenburg, Germany.

<sup>13</sup> Mr. Monticelli was an exchange student from the Politecnico di Milano in Italy.

<sup>14</sup> <http://secappdev.org/>

### EECE 496 Projects Supervised

- Google Scholar plug-in for Drupal, Byron Henze, Sep-Dec / 2013
- Implementation of a test-bed for graph-based Sybil node detection algorithms in social and information networks, Tony Cheng, Jan-Apr / 2013
- Development of security tools for smartphones, Vinson Yu, Jan-Apr / 2013
- Implementation and visualization of role mining algorithms for RBAC systems, Ian Cheng, Jan-Apr / 2013
- Implementation of an Alternative Interface for Windows Vista Personal Firewall, Clement Kai-Le Wang and Steven Hsu, May – Aug / 2010
- Implementation of Web 2.0 Personal Content Sharing Application, Karl Campbell, May – Aug / 2010
- Implementation of Alternative Web SSO Protocol, Derek Gourlay and Myles Archer, May – Aug / 2010
- Functional Improvements to CERN's CDS Invenio digital library, Ngong Daniel Kur, May – Aug / 2010
- Online Social Crawler & Analyzer, Shang Cai, Jan – Apr / 2010
- iBib: Personal Online Bibliography v1.7, Hao Min and Xin Huang, Jan – Apr / 2009
- Requirements analysis for new version of www.ece.ubc.ca, Miguel Antonio D. Guanlao and Benjamin Wai, Jan – Apr / 2009
- iBib: Personal Online Bibliography v1.6, Alex Tse, May – Aug / 2008
- iBib: Personal Online Bibliography v1.5, Sonny Ty, Jan – Apr / 2008
- iBib: Personal Online Bibliography v1.4, Adrian Yu, May – Aug / 2007
- ECE Graduate Program Application Management System, Alice Ho Yu Au-Yeung, Tik Ning Cheung, Andrew Chun Ning Lee, May – Aug / 2007
- Federated Directory Search System, Henry Ng, Jan – Apr / 2007
- iBib: Personal Online Bibliography v1.3, Abbas Mehdi, May – Aug / 2006
- Federated Directory Search System, Tim Kinisky, May – Aug / 2006
- iBib: Personal Online Bibliography v1.2, Kevin Wong, Jan – Apr / 2006
- Federated Directory Search System, Tyler Mitchell and Nikolay Nikiforov, Jan – Apr / 2006

### Co-op Students Supervised

- Wenjia Pan (Convedia), Manmeet Dhaliwal (3DM Devices Inc.), Ryan Kennedy (Communications Security Establishment (CSE), Sep – Dec / 2005
- Gurpreet Dosanjh (HP Canada), Imraj Pasricha (MDA MacDonald Dettwiler Associates), May – Aug / 2005
- Alexei Koulikov (RSA Security Inc.), Vinayak Morada (Sierra Wireless), Sep – Dec / 2004
- Rita Chiu and Gary Fung both at HSBC, May – Aug / 2004

### Other Presentation

- Mar / 11 / 2004, presentation to UBC ECE Advisory Council Meeting, “Software Engineering at ECE”.

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

### **(a) *Briefly describe areas of special interest and accomplishments***

My prior experience in industry—as a system administrator, information security architect, security consultant, designer, and developer—has shaped my overall research philosophy. Its essence is in addressing relevant and important problems by learning, developing, and applying necessary techniques and methods. As a result, I have been actively collaborating with a broad spectrum of experts, on diverse research projects including network security protocols, security mechanism architectures, access control models, software development methodologies, online social networks, web security, mobile security and privacy, and usable security and privacy.

The broad goal of my research is to investigate new techniques and methods for developing and managing secure, large-scale, distributed systems and applications that will lower the ownership costs of the applications and make them more suitable for real-world security requirements. To attain this goal, I have chosen to work in the following three key complementary research directions. Although success in these

directions is not necessarily sufficient for wide adoption of secure systems, it is essential for lowering the ownership costs of secure systems and applications and making them more adequate for real-world security requirements.

### **Security and Privacy in Online Social Networks and on the Web**

With my graduate students and my colleague Prof. Ripeanu---we started to study privacy-related behaviour of users in Facebook-like online social networks (OSNs). After performing experiments using Facebook in 2011, we discovered that its users are prone to accepting friendship requests from strangers with the probability ranging from 20% to 80%, depending on either the number of mutual friends with the stranger or the total number of friends a user has. Our experiments also demonstrated that such complex socio-technical systems as Facebook are vulnerable to large-scale automated attacks for the purpose of collecting personal information and data, surveillance, viral marketing, or influencing algorithmic trading on stock markets. The corresponding conference paper received Best Paper award and enjoyed [media coverage by some 20 outlets in 11 languages](#), while an extended version was selected for a special issue of Elsevier's journal of Computer Networks on botnets. A paper on our simulation framework for evaluating graph-based Sybil detection algorithms has also received best paper award. We have developed more robust algorithms for detecting social bots and are currently starting collaborations with industry on applying our inventions to other large-scale socio-technical systems, e.g., enterprise IT infrastructures and web mail services. To integrate my research with teaching, I have developed and taught a graduate course on OSN security and privacy.

Most recently, in collaboration with Dr. Shapka, Professor of Educational and Counselling Psychology, and Special Education, UBC, we have launched a study of privacy in the context of teenager's online socialization.

### **Usability, Human, and Social Factors of Computer Security**

Work in this direction began in the fall of 2005. Together with three co-investigators, I received funding from NSERC (see Section 9(b)) for three year long Strategic Research project "HOT Admin" on developing evaluation methodologies and design techniques for effective IT security administrative tools. See [2.b.15] for a brief overview of the project. The success of the project can be briefly illustrated by the facts that it resulted in 16 journal and referred conference publications and a follow-up funding in Collaborative Research and Development (CRD) program from NSERC.

I have also been exploring more general topics of human and social factors in computer security. To help develop the new research community, I served on the program committee for the Symposium on Usable Privacy and Security (SOUPS) 2005-2007, 2011-2015 (co-chairing it in 2012 & 2013), have organized first in its kind SOUPS Workshop on the Usability of IT Security Management in 2007 and 2008, and was a panelist on usable security at 2006 USENIX Security Symposium and the chair of the panel on the usability of access control [2.b.10] at ACM SACMAT. I also served as a co-chair of Interactive and In-depth Sessions for SOUPS '08 and '09. In July of 2009, I participated in the by-invitation-only Workshop on Usable Security & Privacy organized by the US National Academy of Science for the purpose of identifying areas of research funding by the National Science Foundation and NIST. Currently, I serve on the steering committee for SOUPS.

### **Mobile Security and Privacy**

The most recent research direction I've been developing is in the area of security and privacy of mobile devices, such as smartphones. Here, I've been investigating with my students protection of smartphones from the risks of unauthorized physical access to the data-at-rest by both members of the owner's social circle and thieves. I've been also collaborating with Dr. Egelman from UC Berkley on investigating improvements to the smartphone app permission system.

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

Granting Agency	Subject	COMP	\$ Per Year	Years	Principal Investigator	Co-Investigator(s)
ECE	Startup Fund	NC	\$60,000	2003	<b>K. Beznosov</b>	-
NSERC (Discovery)	Security Engineering for Large-Scale Distributed Software Applications	C	\$22,700 <sup>16</sup>	2004 – 2009	<b>K. Beznosov</b>	-
NSERC/PSEPC (Joint Infrastructure Interdependencies Research Program (JIIRP))	Decision Coordination for Critical Linkages in a National Network of Infrastructures	C	\$410,000	2005 – 2008	J. Marti	<b>K. Beznosov (6.6%)</b> K. Booth J. Jaskevitch J. Joyce P. Kruchten T. Munzner G. Poole R. Rosenberg KD Srivastava C.E. Ventura C. Woo
NSERC (Strategic)	HOT Admin: Human, Organization, and Technology Centred Improvement of the IT Security Administration	C	\$153,000	2005 – 2008	<b>K. Beznosov (80%)</b>	S. Fels B. Fisher L. Iverson
UBC (Teaching and Learning Enhancement Fund (TLEF))	Hands-on Interactive Learning in Computer Networks and Distributed Systems	C	\$27,900	2006 – 2007	V. Wong	H. Alnuweiri <b>K. Beznosov (20%)</b> V. Leung
TELUS (Industry Research Grant)	Provisioning and Management of IP-based Multimedia Mobility Services over Heterogeneous Broadband Wireless Networks	NC	\$60,000	2006 – 2008	V. Leung	<b>K. Beznosov (30%)</b> P. Nasiopoulos
NSERC (Collaborative Research and Development)	Provisioning and Management of IP-based Multimedia Mobility Services over Heterogeneous Broadband Wireless Networks	C	\$73,000	2007 – 2009	V. Leung	<b>K. Beznosov (30%)</b> P. Nasiopoulos
Ministry of Labour and Citizens'	Secure, Practical, and Usable Authentication	NC	\$20,000	2007 – 2008	<b>K. Beznosov</b>	-

<sup>16</sup>18% above average amount granted to first time applicants across committee #330 in 2003, a year before.

Granting Agency	Subject	COMP	\$ Per Year	Years	Principal Investigator	Co-Investigator(s)
Services, B.C. (Grant-in-Aid)						
NSERC (Strategic Network Grants Program)	The Interneted Systems Security Network (ISSNet)	C	\$1,000,000	2007 – 2012	P. van Oorschot	W. Aiello J. Aycock <b>K. Beznosov<sup>17</sup> (6%)</b> R. Biddle J. Fernandez P. Fong S. Knight D. Lie J. McHugh S. Neville K. Inpken A. Somayaji C. Williamson N. Zincir-Heywod
CA Canada (Industry Research Grant)	HOT Id: Human, Organization, and Technology Centered Improvements of CA Identity Manager	NC	\$40,000	2008 – 2011	<b>K. Beznosov</b>	-
TELUS (Industry Research Grant)	Provisioning and Management of IP-based Multimedia Mobility Services over Heterogeneous Broadband Wireless Networks	NC	\$60,000	2009 – 2010	V. Leung	<b>K. Beznosov (15%)</b> P. Nasiopoulos M. Ripeanu
NSERC (Discovery)	Security Engineering for Large-Scale Distributed Software Applications	C	\$30,000 <sup>18</sup>	2009 – 2014	<b>K. Beznosov</b>	-
NCE	GRAND -- Usable Privacy and Security for New Media Environments	C	\$60,000	2010 – 2014	<b>R. Biddle</b>	<b>K. Beznosov (40%)</b>
NSERC CRD (with CA)	Investigating improvements to identity management	C	\$53,160	2011 – 2013	<b>K. Beznosov</b>	-
MITACS (with Sophos)	Automated Malware Detection Using	NC	\$15,000	2012	M. Ripeanu	<b>K. Beznosov (40%)</b>

<sup>17</sup> Project lead for one of the 9 projects

<sup>18</sup> Average grant awarded by the committee (#330) in that round was \$26,985.

Granting Agency	Subject	COMP	\$ Per Year	Years	Principal Investigator	Co-Investigator(s)
	Supervised Machine Learning					
NSERC Engage (with FusionPipe)	Securing Smartphones and Tablets for BYOD Management	NC	\$25,000	2013	<b>K. Beznosov</b>	
NSERC RTI	A Platform for Experimental Research on Modern Online Social Networks	C	55,586	2013	<b>K. Beznosov (50%)</b>	M. Ripeanu
NSERC Engage Plus (with FusionPipe)	Android OS Integration with KeyVault Framework	NC	\$20,000	2014	<b>K. Beznosov</b>	
NSERC (Discovery)	Security & Privacy Support for Teenagers in Online Social Media	C	\$33,000	2014 – 2019	<b>K. Beznosov</b>	
UBC-FUB Joint Fund Program	Usable Security Privacy by Design	C	\$20,000	2015	<b>K. Beznosov (50%)</b>	V. Roth (Free University of Berlin)

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

(d) *Invited Presentations*

The following presentations were given in addition to the presentations of papers at conferences and workshops listed in "Publications Record" part of the CV.

Title	Conference or Event	Location	Organization	Date
"Upcoming OMG HealthCare Resource Access Control Facility"	HL7 SIG Secure Meeting	Orlando, FL	HL7 SIG Secure	26 / Jan / 1999
"Architecture-Centered Composition of Adaptive and Dependable Enterprise Security Service"		Hawthorne, New York	IBM T. J. Watson Research Center	14 / Feb / 2000
"Architectural Separation of Authorization and Application Logic in Distributed Systems"		Philadelphia, PA	Computer and Information Sciences Department, Temple University	11 / Apr / 2000

Title	Conference or Event	Location	Organization	Date
"Architectural Separation of Authorization and Application Logic in Distributed Systems"		Dallas, TX	Erik Jonsson School of Engineering and Computer Science, University of Texas at Dallas	01 / May / 2000
"Architectural Separation of Authorization and Application Logic in Distributed Systems"		Rüschlikon, Switzerland	IBM Zurich Research Laboratory	22 / May / 2000
"Architectural Separation of Authorization and Application Logic in Distributed Systems"		Toronto, ON	Department of Computer Science, York University	29 / May / 2000
"Architectural Separation of Authorization and Application Logic in Distributed Systems"		London, ON	Department of Computer Science, Middlesex College, University of Western Ontario	30 / May / 2000
"Preview of Mastering Web Services Security"		Rüschlikon, Switzerland	Computer Science Department, IBM Research Laboratory	16 / Sep / 2002
"Security Engineering for Large Scale Distributed Applications"		Halifax, NS	Faculty of Computer Science, Dalhousie University	28 / Jan / 2003
"Security Engineering for Large Scale Distributed Applications"		Hamilton, ON	Department of Computing and Software, McMaster University	25 / Feb / 2003
"Security Engineering for Large Scale Distributed Applications"		Vancouver, Canada	Department of Electrical and Computer Engineering, UBC	07 / Mar / 2003
"Security Engineering for Large Scale Distributed Applications"		Leuven, Belgium	Department of Computer Science, Katholieke Universiteit	19 / Jun / 2003
"Towards Agile Security Assurance"		Waterloo, Ontario	University of Waterloo, School of Computer Science	18 / Oct / 2004
"Security Engineering for Large Scale Distributed Applications"		Amsterdam	Department of Computer Science, Vrije University	17 / Dec / 2004
"Improving Practical Security Engineering: Overview of the Ongoing Research"		Heverlee, Belgium	Department of Computer Science, Katholieke Universiteit Leuven	20 / Dec / 2004
"HOT Admin: Human,		Ottawa, Ontario	Entrust Inc.	25 / Apr / 2005

Title	Conference or Event	Location	Organization	Date
Organization, and Technology Centred Improvement of the IT Security Administration Usability"				
"Towards Agile Security Assurance"		Ottawa, Ontario	Carleton University, School of Computer Science	26 / Apr / 2005
"Recycling Authorizations: Toward Secondary and Approximate Authorizations Model (SAAM)"	Workshop on New Challenges for Access Control	Ottawa, Ontario		27 / Apr / 2005
"An Overview of The Ongoing Research at LERSSE"		Stockholm, Sweden	Royal Institute of Technology at Stockholm	09 / Jun / 2005
"JAMES: Junk Authorizations for Massive-scale Enterprise Services"		Miami, Florida	School of Computing and Information Sciences, Florida International University	15 / Aug / 2005
"Secondary and Approximate Authorization Model and its Application to Bell-LaPadula Policies"		Los Angeles, California	Information Sciences Institute, Viterbi School of Engineering, University of Southern California	06 / Feb / 2006
"HOT Admin: Human, Organization, and Technology Centred Improvement of the IT Security Administration"	CIPS Vancouver Security SIG Meeting	Vancouver, BC	CIPS, Security SIG	08 / Mar / 2006
"Employing Secondary and Approximate Authorizations to Improve Access Control Systems"		Halifax, NS	Faculty of Computer Science, Dalhousie University	12 / Oct / 2006
"Employing Secondary and Approximate Authorizations to Improve Access Control Systems"		Waltham, MA	IONA	Aug / 08 / 2007
"HOT Admin Research Project: Overview and Results to Date"	GONDWANA (Towards Quantitative Security Metrics)	Montreal, QC	École Polytechnique de Montréal	21 / Feb / 2008
"A Broad Empirical Study of IT Security Practitioners"	Coast to Coast Seminar Series	Vancouver, BC		18 / Mar / 2008

Title	Conference or Event	Location	Organization	Date
"A Broad Empirical Study of IT Security Practitioners"		New York, NY	Columbia University	15 / Apr / 2008
"Why (Managing) IT Security is Hard and Some Ideas for Making It Easier"		St. Petersburg, Russia	St. Petersburg Institute for Informatics and Automation of the Russian Academy of Sciences	02 / Jun / 2008
"Secondary and Approximate Authorization Model and Its Applications to BLP and RBAC Policies"		Rüschlikon, Switzerland	Computer Science Department, IBM Research Laboratory	05 / Jun / 2008
"Toward Understanding the Workplace of IT Security Practitioners"		London, UK	Computer Science Department, College University of London	04 / Jul / 2008
"Management of IT Security in Organizations: What Makes It Hard?"		Karlsruhe, Germany	SAP Research, Campus-based Engineering Center	08 / Jul / 2008
"Toward Improving Availability and Performance of Enterprise Authorization Services"		Dortmund, Germany	Faculty of Computer Science, Technical University of Dortmund	27 / Apr / 2009
"On Users' Mental Models of Security Controls"		Redmond, WA, USA	Microsoft Research	3 / Feb / 2011
"Is OpenID too Open? Technical, Business, and Human Issues That Get in the Way of OpenID and Ways of Addressing Them"		Sophia-Antipolis, France	Eurecom	24 / Feb / 2011
"Is OpenID too Open? Technical, Business, and Human Issues That Get in the Way of OpenID and Ways of Addressing Them"		Sophia-Antipolis, France	SAP	8 / Apr / 2011
"On Users' Mental Models of Security Controls"		Darmstadt, Germany	Fraunhofer Institute for Secure Information Technology	25 / Oct / 2011
"Is OpenID too Open? Technical, Business, and Human Issues That Get in the Way of OpenID and Ways of Addressing Them"		Athens, Greece	Athens University of Economics and Business	8 / Nov / 2011
"On the Feasibility, Effectiveness, and Implications"		Melbourne, Florida	Florida Institute of Technology	2 / Dec / 2011

<b>Title</b>	<b>Conference or Event</b>	<b>Location</b>	<b>Organization</b>	<b>Date</b>
of Socialbot Nets”				
“On the Feasibility, Effectiveness, and Implications of Socialbot Nets”		Miami, Florida	Florida Institute of Technology	5 / Dec / 2011
“Security and Privacy in Online Social Networks”		London, UK	University College London	11 / Jun / 2013
“Security and Privacy in Online Social Networks”		Moscow, Russia	Moscow State University	25 / Jun / 2013
“Security and Privacy in Online Social Networks”		Fort Collins, Colorado	Colorado State University	13 / Jan / 2014
“Detection of Fake Accounts in Online Social Networks”		Burwood, Victoria, Australia	Deakin University	18 / Dec / 2014
“Fake Accounts in Online Social Networks: Infiltrations and Defenses”	Research Seminar of Information Security Group	Egham, Surrey, UK	Royal Holloway, University of London	03 / Mar / 2015
“Fake Accounts in Online Social Networks: Infiltrations and Defenses”		Portland, Oregon	Portland State University	10 / Apr / 2015
“Fake Accounts in Online Social Networks: Infiltrations and Defenses”		Victoria, BC	University of Victoria	22 / May / 2015
“Fake Accounts in Online Social Networks: Infiltrations and Defenses”		Berlin, Germany	Freie Universität Berlin	11 / Jun / 2015
“Towards Understanding and Improving IT Security Management”		Bonn, Germany	University of Bonn	22 / Jun / 2015
“Fake Accounts in Online Social Networks: Infiltrations and Defenses”	Technical Seminar	Prague, Czech Republic	CISCO Systems	25 / Jun / 2015

(e) *Other Presentations*

- “Human Factors in Security Administration” presented at BCNET Advanced Networks Conference, Vancouver, BC, 27 / Apr / 2004
- Three research talks at ECE’s Software Engineering Exploration and Discussions Seminar (SEEDS), Sep / 2003 – Feb / 2005
- Eight technical talks at Quadrasis’ Security Readings Seminar, Apr – Dec / 2002
- “Update on Security Domain Membership RFP Proposal,” presented at ORBOS, OMG Technical Committee meeting, 12 / Dec / 2000
- “A Design of An Authorization Service,” presentation given at the Center for Advanced Distributed Systems Engineering (CADSE), 12 / Feb / 1999

- “Resource Names for Resource Access Decision (Facility),” presentation given to the OMG joint SecSIG-CORBAMED session, 22 / Mar / 1999

(f) *Other*

(g) *Conference Participation (Organizer, Keynote Speaker, etc.)*

Note: The fields of computer security and distributed systems are highly oriented towards conferences, with second and third-tier conferences having acceptance rates between 20% and 40%, and top tier conferences with acceptance rates in 8%-20%. As a result, service on Technical Program Committees requires significant effort in reviewing (and some times shepherding) submissions, each 10-15 page long.

Conference or Event	Role(s)	Location	Date
ACM Workshop on Role-Based Access Control	Panelist: "Requirements for Access Control: US Healthcare Domain"	Fairfax, Virginia	22 / Oct / 1998 – 23 / Oct / 1998
OMG DOCSec workshop	Technical Program Committee Member	Baltimore, Maryland	12 / Jul / 1999 – 15 / Jul / 1999
OMG DOCSec workshop	Session Chair	Boston, MA	4 / Apr / 2000 – 7 / Apr / 2000
OMG DOCSec workshop	Technical Program Committee Member	Annapolis, Maryland	28 / Mar / 2001
Distributed Object and Component Security (DOCSec) Workshop	Tutorial: “.NET Web Services Security”	Baltimore, Maryland	18 / Mar / 2002
IEEE Enterprise Distributed Object Computing (EDOC) Conference	Tutorial: “Enterprise Security With XML and Web Services”	Lausanne, Switzerland	17 / Sep / 2002
ACM Symposium on Access Control Models and Technologies (SACMAT)	<ul style="list-style-type: none"> <li>• Tutorial Chair; Publicity Chair</li> <li>• Technical Program Committee Member</li> <li>• Tutorial: “Access Control Mechanisms in Commercial Middleware”</li> </ul>	Como, Italy	04 / Jun / 2003
First ACM Workshop on Business Driven Security Engineering (BizSec)	<ul style="list-style-type: none"> <li>• Technical Program Committee Member</li> <li>• Panelist: “What Does Research Need to Do to Help with Business Driven Security?”</li> </ul>	Fairfax, Virginia	31 / Oct / 2003
ACM SACMAT 2004	Publicity Chair; Technical Program Committee Member	IBM Thomas J Watson Research Center, Yorktown Heights, USA	02 / Jun / 2004 – 04 / Jun / 2004
West Coast Security Forum	Tutorial Instructor: “Principles of Designing Secure Systems”	Vancouver, BC	22 / Nov / 2004
Javapolis Conference	<ul style="list-style-type: none"> <li>• Panelist: “Agile Security and Secure Agility”</li> <li>• Tutorial Instructor: “Access Control Architectures: COM+ vs. EJB”</li> <li>• Tutorial Instructor:</li> </ul>	Antwerp, Belgium	14 / Dec / 2004 – 16 / Dec / 2004

Conference or Event	Role(s)	Location	Date
	“Middleware and Web Services Security”		
IEEE International Conference on Networking, Sensing and Control (ICNSC) 2005	Technical Program Committee Member	Tucson, Arizona	19 / Mar / 2005 – 22 / Mar / 2005
ACM SACMAT	<ul style="list-style-type: none"> <li>• Webmaster</li> <li>• Technical Program Committee Member</li> <li>• Panel Moderator: “Future Directions of Access Control Models, Architectures and Technologies”</li> </ul>	Stockholm, Sweden	01 / Jun / 2005 – 03 / Jun / 2005
Symposium on Usable Privacy and Security (SOUPS)	<ul style="list-style-type: none"> <li>• Organizer and moderator of the panel “Usability of Security Administration vs. Usability of End-user Security”</li> <li>• Technical Program Committee Member</li> </ul>	Carnegie Mellon University, Pittsburgh, PA	06 / Jul / 2005 – 08 / Jul / 2005
New Security Paradigms Workshop (NSPW)	Technical Program Committee Member	Lake Arrowhead, California	20 / Sep / 2005 – 23 / Sep / 2005
Annual Computer Security Applications Conference (ACSAC)	Technical Program Committee Member	Arizona, USA	05 / Dec / 2005 – 09 / Dec / 2005
Open Web Application Security Project (OWASP) AppSec Europe 2006 Conference	Technical Program Committee Member	Catholic University of Leuven, Belgium	30 / May / 2006 – 31 / May / 2006
ACM SACMAT 2006	Technical Program Committee Member	Lake Tahoe, California	07 / Jun / 2006 – 09 / Jun / 2006
SOUPS	Technical Program Committee Member	Carnegie Mellon Univ., Pittsburgh, PA	12 / Jul / 2006 – 14 / Jul / 2006
USENIX Security Symposium	Panelist: “Usable Security: Quo Vadis?”	Vancouver, BC	31 / Jul / 2006 – 02 / Aug / 2006
NSPW	Technical Program Committee Junior Co-Chair	Schloss Dagstuhl, Germany	19 / Sep / 2006 – 22 / Sep / 2006
ACSAC 2006	<ul style="list-style-type: none"> <li>• Best Paper Selection Committee Member</li> <li>• Technical Program Committee Member</li> </ul>	Miami Beach, FL	11 / Dec / 2006 – 15 / Dec / 2006
ACM SACMAT 2007	Technical Program Committee Member	Sophia Antipolis, France	20 / Jun / 2007 – 22 / Jun / 2007
Workshop on Usable IT Security Management	Organizer and general co-chair	Carnegie Mellon University, Pittsburgh, PA	18 / Jul / 2007
SOUPS	Technical Program Committee Member (reviewed 6 submsns, 32% acceptance rate)	Carnegie Mellon University, Pittsburgh, PA	18 / Jul / 2007 – 20 / Jul / 2007
NSPW	<ul style="list-style-type: none"> <li>• Publicity Chair</li> <li>• Technical Program Committee Senior Co-Chair</li> </ul>	New Hampshire, USA	18 / Sep / 2007 – 21 / Sep / 2007

Conference or Event	Role(s)	Location	Date
First International Workshop on Run Time Enforcement for Mobile and Distributed Systems	Technical Program Committee Member (reviewed 1 submsn)	Dresden, Germany	26 / Sep / 2007 – 27 / Sep / 2007
Symposium on Network and Distributed Systems Security (NDSS)	Technical Program Committee Member (reviewed 16 submsns, 18% acceptance rate)	San-Diego, CA	08 / Feb / 2008 – 11 / Feb / 2008
3 <sup>rd</sup> International OWASP Symposium on Web Application Security	Technical Program Committee Member (reviewed 3 submsns)	Brussels, Belgium	20 / May / 2008 – 22 / May / 2008
IEEE Workshop on Web 2.0 Security and Privacy	Technical Program Committee Member (reviewed 6 submsns)	Oakland, CA	22 / May / 2008
ACM SACMAT 2008	Technical Program Committee Member (reviewed 7 submsns, 25% acceptance rate)	Estes Park, Colorado	11 / Jun / 2008 – 13 / Jun / 2008
Workshop on Usable IT Security Management	Organizer and general co-chair	CMU, Pittsburgh, PA	23 / Jul / 2008
NSPW	<ul style="list-style-type: none"> <li>• Publicity Chair</li> <li>• Technical Program Committee Member (reviewed 6 submsns)</li> </ul>	Lake Tahoe, CA	22 / Sep / 2008 – 25 / Sep / 2008
1 <sup>st</sup> International Workshop on Middleware Security (MidSec)	Technical Program Committee Member (reviewed 3 submsns)	Brussels, Belgium	02 / Dec / 2008
ACSAC	Technical Program Committee Member (reviewed 12 submsns, 24% acceptance rate)		08 / Dec / 2008 – 12 / Dec / 2008
SOUPS	Interactive and In-Depth Sessions Co-Chair; Organizing Committee Member	CMU, Pittsburgh, PA	23 / Jul / 2008 – 25 / Jul / 2008
ACM Symposium on Computer Human Interaction for Management of Information Technology (CHIMIT)	Technical Program Committee Member (reviewed 4 submsns)	San-Diego, CA	14 / Nov / 2008 – 15 / Nov / 2008
NDSS	Technical Program Committee Member (reviewed 16 submsns, 12% acceptance rate)	San-Diego, CA	8-11 / Feb / 2009
IEEE Workshop on Web 2.0 Security and Privacy	Technical Program Committee Member (reviewed 4 submsns)	Oakland, CA	21 / May / 2009
ACM SACMAT	<ul style="list-style-type: none"> <li>• Panels Chair</li> <li>• Technical Program Committee Member (reviewed 7 submsns, 36% acceptance rate)</li> <li>• Panel Organizer and Moderator: “Usability Meets Access Control: Challenges and Research Opportunities”</li> </ul>	Stresa, Italy	03 / Jun / 2009 – 05 / Jun / 2009
SOUPS	Interactive and In-Depth Sessions Co-Chair	Mountain View, CA	15 / Jul / 2009 – 17 / Jul / 2009
NSPW	<ul style="list-style-type: none"> <li>• Publicity Chair</li> <li>• Steering Committee Member</li> </ul>	Oxford, UK	8-11 / Sep / 2009

Conference or Event	Role(s)	Location	Date
ACM CHIMIT	Technical Program Committee Member (reviewed 4 submsns)	Baltimore, MD	7-8 / Nov / 2009
ACM Computer and Communications Security Conference (CCS)	<ul style="list-style-type: none"> <li>Technical Program Committee Member (reviewed 15 submsns, 18% acceptance rate)</li> <li>Session Chair</li> </ul>	Chicago, IL	9-13 / Nov / 2009
ACSAC	<ul style="list-style-type: none"> <li>Technical Program Committee Member (reviewed 14 submsns, 20% acceptance rate)</li> <li>Session Chair</li> </ul>	Honolulu, Hawaii	07 / Dec / 2009 – 11 / Dec / 2009
NDSS	<ul style="list-style-type: none"> <li>Technical Program Committee Member (reviewed 12 submsns, acceptance rate 16%)</li> <li>Session Chair</li> </ul>	San-Diego, CA	28 / Feb / 2010 – 3 / Mar / 2010
International Workshop on Software Engineering for Secure Systems (SESS)	Technical Program Committee Member	Cape Town, South Africa	May / 2010
IEEE Workshop on Web 2.0 Security and Privacy	Technical Program Committee Member	Oakland, CA	20 / May / 2010
ACM SACMAT	Technical Program Committee Member (reviewed 5 submsns, 24% acceptance rate)	Pittsburgh, PA	Jun / 2010
SOUPS	Poster Session Co-Chair	Redmond, WA	14 / Jul / 2010 – 16 / Jul / 2010
NSPW	<ul style="list-style-type: none"> <li>Publications Chair</li> <li>Steering Committee Member</li> </ul>	Concord, MA, USA	21-23 / Sep / 2010
International Conference Mathematical Methods, Models, and Architectures for Computer Networks Security (MMM-ACNS)	Technical Program Committee Member	St. Petersburg	8-11 / Sep / 2010
ACM CHIMIT	PC co-chair	San Jose, CA	7-8 / Nov / 2010
ACSAC	Technical Program Committee Member (reviewed 14 submsns)	Austin, Texas	06 / Dec / 2010 – 10 / Dec / 2010
NDSS	<ul style="list-style-type: none"> <li>Technical Program Committee Member (reviewed 15 submsns, 20% acceptance rate, 20 pages limit)</li> <li>Best Paper Selection Committee member</li> </ul>	San-Diego, CA	6-9 / Feb / 2011
International Conference on Financial Cryptography	Session chair	St. Lucia	28 / Feb / 2011 – 4 / Mar / 2011
Workshop on The Future of User Authentication and Authorization on the Web	Panelist: "Password Managers, Single Sign-On, Federated ID: Have users signed up?"	St. Lucia	4 / Mar / 2011

Conference or Event	Role(s)	Location	Date
SOUPS	<ul style="list-style-type: none"> <li>• Technical Program Committee Member (reviewed 10 submsns, 30% acceptance rate, 12 pages limit)</li> <li>• Poster Session Co-Chair</li> </ul>	Pittsburgh, PA	20-22 / Jul / 2011
NSPW	<ul style="list-style-type: none"> <li>• Publications Chair</li> <li>• Steering Committee Member</li> </ul>	Marin County, CA	12-15 / Sep / 2011
NDSS	Technical Program Committee Member (reviewed 14 submsns, 20 pages limit)	San-Diego, CA	5-8 / Feb / 2012
International Conference on Financial Cryptography	Technical Program Committee Member (reviewed 8 submsns, 15 pages limit)	Bonaire	27 / Feb / 2012 - 3 / Mar / 2012
International Conference on Security and Privacy in Communication Networks (SecureComm)	Technical Program Committee Member	Padua, Italy	3-6 / Sep / 2012
ACM Conference on Computer and Communications Security (CCS)	Technical Program Committee Member (reviewed 24 submsns, 12 pages limit, acceptance rate 19%)	Raleigh, NC, USA	5-9 / Nov / 2012
SOUPS	Technical Program Committee Co-Chair	Washington, DC	11-13 / Jul / 2012
NSPW	<ul style="list-style-type: none"> <li>• Publications Chair</li> <li>• Steering Committee Member</li> </ul>	Bertinoro, Italy	19-21 / Sep / 2012
European Symposium on Research in Computer Security (ESORICS)	Technical Program Committee Member	London, UK	9-13 / Sep / 2013
NSPW	<ul style="list-style-type: none"> <li>• Vice Chair</li> <li>• Publications Chair</li> <li>• Steering Committee Member</li> </ul>	The Banff Centre, Canada	9-12 / Sep / 2013
ACM Conference on Computer and Communications Security (CCS)	<ul style="list-style-type: none"> <li>• Technical Program Committee Member (reviewed 20 submsns, 12 pages limit, acceptance rate 20%)</li> <li>• Session chair</li> </ul>	Berlin, Germany	4-8 / Nov / 2013
IEEE Symposium on Security and Privacy	Technical Committee Member (reviewed 22 submsns, 15 pages limit, acceptance rate $\approx$ 13%)	San-Jose, CA	18-21 / May / 2014
SOUPS	<ul style="list-style-type: none"> <li>• Technical Program Committee Member (reviewed 15 submsns, 12 pages limit, acceptance rate 27%)</li> <li>• Steering Committee Member</li> </ul>	Menlo Park, CA	9-11 / Jul / 2014
NSPW	<ul style="list-style-type: none"> <li>• General Chair</li> <li>• Publications Chair</li> <li>• Steering Committee Member</li> </ul>	Victoria, Canada	15-18 / Sep / 2014
6th International Conference on	Technical Program Committee	Lochau/Bregenz,	29-31 / Oct / 2014

Conference or Event	Role(s)	Location	Date
Electronic Voting	Member (reviewed 3 submsns)	Austria	
ACM CCS Workshop on Security Information Workers	Technical Program Committee Member (reviewed 2 submsns)	Scottsdale, AZ	07 / Nov / 2014
IEEE Symposium on Security and Privacy	Technical Committee Member (reviewed 25 submsns, 15 pages limit, acceptance rate $\approx$ 13%)	San-Jose, CA	18-20 / May / 2015
SOUPS	<ul style="list-style-type: none"> <li>Technical Program Committee Member (reviewed 15 submsns, 12 pages limit, acceptance rate 24%)</li> <li>Steering Committee Member</li> </ul>	Ottawa, Canada	22-24 / Jul / 2015
ACM Conference on Computer and Communications Security (CCS)	Technical Program Committee Member (reviewed 18 submsns, 12 pages limit, acceptance rate 20%)	Denver, CO	12-16 / Oct / 2015

## 10. SERVICE TO THE UNIVERSITY

(a) *Memberships in committees, including offices held and dates*

Department	Committee Name	Role	Dates	
			Start	End
UBC	Software Engineering Exploration and Discussion Seminar (SEEDS)	Co-founder and Coordinator	Sep / 2003	Apr / 2004
UBC	Leading Edge Endowment Fund (LEEF) BC Leadership Chair in Information Communication Security Technology	Expert Advisor	Jun / 2004	Dec / 2005
ECE	Departmental Retreat	Coordinator	Spring 2005	Spring 2005
ECE / ICICS	Technical Talks	Organizer, Host	20 / Apr / 2007	25 / Jun / 2007
ECE	Curriculum Committee	Member	2007	2008
UBC	Tenure case of Annette Berndt	Peer Reviewer	Jun / 2007	Jun / 2007
ECE	Community Connections and Communications Task Force (C3TF)	Chair	Feb / 2009	Aug / 2010
ECE	Recruitment Committee for the position in Software Engineering	Member	Feb / 2010	May / 2010
ECE	Merit and PSA committee	Member	Apr / 2012	May / 2012
ECE	ARPT sub-committee for Sathish Gopalakrishnan	Member	Sep / 2012	Feb / 2013
ECE	Strategic Committee on Communications and Outreach	Member	Oct / 2012	Feb / 2013
UBC	Steering Committee for HCI@UBC initiative	Member	June / 2013	present
ECE	"3-minute Thesis Madness" competition jury	Member	Feb / 2014	Feb / 2014

Department	Committee Name	Role	Dates	
			Start	End
ECE	ARPT sub-committee for Karthik Pattabiraman	Member	Sep / 2014	Apr / 2015
ECE	Undergraduate Program Excellence Committee	Member	Mar / 2015	present

## (b) Other service, including dates

Role	Department	Student	Degree	Date
Qualifying Exam Committee Member	ECE	David Tompkins	Ph.D.	17 / Dec / 2003
Qualifying Exam Committee Member	ECE	Mandana Sotoodeh	Ph.D.	15 / Jul / 2004
Qualifying Exam Committee Member	ECE	Xiang Cao	Ph.D.	30 / Aug / 2004
Second Reader of Thesis	Computer Science	Peng Peng	M.Sc.	Aug / 2004
Qualifying Exam Committee Member	ECE	Maryam Razavi	Ph.D.	22 / Apr / 2005
Thesis Defense Committee Member	ECE	Ashley Gadd	M.A.Sc.	22 / Apr / 2005
Thesis Defense Examiner	Computer Science	Jan Hannemann	Ph.D.	Nov / 2005
Thesis Defense Committee Member	ECE	Xiang Cao	M.A.Sc.	24 / Jan / 2006
Qualifying Exam Committee Member	ECE	Majid Khabbazian	Ph.D.	20 / Feb / 2006
Departmental Examination Committee Member	ECE	Yew Lam	Ph.D.	08 / Jan / 2007
Qualifying Exam Committee Member	ECE	Jun Wang	Ph.D.	19 / Jan / 2007
Qualifying Exam Committee Member	ECE	Ali Al Shidhani	Ph.D.	01 / Jun / 2007
Thesis Defense Committee Member	ECE	Larix Lee	M.A.Sc.	26 / Jun / 2008
Thesis Defense Chair and Head's Nominee	ECE	Armin Bahramshahry	M.A.Sc.	17 / Aug / 2009
Qualifying Exam Head's Nominee	ECE	Ali Bakhoda	Ph.D.	21 / Aug / 2009
Qualifying Exam Head's Nominee	ECE	Tony Tang	Ph.D.	19 / Oct / 2009
Qualifying Exam Head's Nominee	ECE	Amir Valizadeh	Ph.D.	23 / Nov / 2009
Departmental Examination Committee Member	ECE	Ali Al Shidhani	Ph.D.	05 / Feb / 2010
University Examiner	Computer Science	Brett Cannon	Ph.D.	14 / Jan / 2011
Departmental Examination Committee Member	ECE	Jun Wang	Ph.D.	03 / Aug / 2011
Thesis Defense Committee Member	ECE	Madhu Sharma	M.A.Sc.	22 / Dec / 2011
Head nominee and chair of thesis Defense Committee	ECE	Vincent Tsao	M.A.Sc.	3 / Apr / 2012
Chair of thesis Departmental Defense Committee	ECE	Kaveh Shafiee	Ph.D.	10 / Apr / 2012
Chair of Qualifying Examination	ECE	Ahmadreza Farsaei	Ph.D.	4 / Jun / 2012
Co-Reader on thesis Defense Committee	ECE	Zoltan Foley-Fisher	M.A.Sc.	9 / Oct / 2012
University Examiner	ECE	Amir Valizadeh	Ph.D.	11 / Apr / 2013

Role	Department	Student	Degree	Date
Chair of University Examination	Computer Science	Stephen Ingram	Ph.D.	13 / Sep / 2013
Head's Nominee for Departmental Examination	ECE	Elizeu Santos-Neto	Ph.D.	19 / Nov / 2013
Thesis Defense Committee Member	ECE	Mohammadhossein Afrasiabi	M.A.Sc.	26 / Nov / 2013
Supervisory Committee member, University Examination	ECE	Elizeu Santos-Neto	Ph.D.	16 / Jun / 2014
Chair, Departmental Examination	ECE	Kevin Topley	Ph.D.	04 / Sep / 2014
Chair, Departmental Examination		Shankhanaad Mallick	Ph.D.	14 / Oct / 2014
Head's Nominee for Departmental Examination	ECE	Abir Al Hajri	Ph.D.	24 / Oct / 2014
Head nominee and chair of thesis Defense Committee	ECE	Golnaz Gharachorlu	M.A.Sc.	27 / Nov / 2014
Supervisory Committee Member, University Examination	ECE	Abir Al Hajri	Ph.D.	12 / Dec / 2014
University Examiner, University Examination	ECE	Seyed Ali Mousavifar	Ph.D.	23 / Mar / 2015
Chair of University Examination	CS	Bradley Bingham	Ph.D.	30 / Mar / 2015
Chair of Qualifying Examination	ECE	Shabnam Mirshokraie	Ph.D.	01 / May / 2015
Head's Nominee for Qualifying Examination	ECE	Dawood Al-Masslawi	Ph.D.	16 / Jun / 2015

## 11. SERVICE TO THE COMMUNITY

(a) *Memberships in scholarly societies, including offices held and dates*

Scholarly Society	Role	Dates	
		Start	End
Association for Computing Machinery (ACM)	Member	1997	2012
Institute of Electrical and Electronics Engineers (IEEE)	Member	1998	2011
IEEE Computer Society	Member	1998	2011
ACM Special Interest Group on Security, Audit and Control (SIGSAC)	Member	2000	2011
ICICS	Member	2003	Present
IEEE Technical Committee on Security and Privacy	Member	2005	2011

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

Other Societies	Role	Dates	
		Start	End
Vancouver Security Special Interest Group of Canadian Information Processing Society (CIPS)	Member	Nov / 2003	2011
Association of Professional Engineers and	Member	22 / Sep / 2009	Present

Other Societies	Role	Dates	
		Start	End
Geoscientists of BC (APEGBC)			

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

Scholarly Committees	Role	Dates	
		Start	End
Independent Review Panel of the Proposal for MS in Information, Network, and Computer Security by the New York Institute of Technology	Chair	Mar / 2013	May / 2013

(d) *Memberships in other committees, including offices held and dates*

Other Committees	Role	Dates	
		Start	End
Object Management Group (OMG) Healthcare Domain Task Force (DTF)	Member	1997	1999
CORBA Security Revision Task Force (RTF)	Member	1998	1999
OMG Security Special Interest Group (SecSIG)	Co-Chair	Sep / 1998	Nov / 1999
Organization for the Advancement of Structured Information Standards (OASIS)	eXtensible Access Control Markup Language (XACML) Technical Committee Member	Mar / 2002	Feb / 2003
BCNET Applications Security Working Group	Member	Mar / 2006	May / 2007
ACM Computing Classification System (CCS) committee	Member of the Security and Privacy working group	Mar / 2011	June / 2011
Independent Panel on Internet Voting, appointed by Elections B.C.	Member	Sep / 2012	Feb / 2014

(e) *Editorships (list journal and dates)*

Journal Name	Role (Nature of Duties)	Dates	
		Start	End
IEEE Software Magazing Special Issue: "Security for the Rest of US: an Industry Perspective on the Secure Software Challenge"	Guest Co-Editor	Jan / 2008	Jan / 2008
International Journal of Secure Software Engineering (IJSSE)	Associate Editor	Mar / 2009	present
ACM Transactions on Information and System Security (TISSEC) <sup>19</sup>	Associate Editor	Feb / 2011	Apr / 2015
Elsevier journal on Computers & Security	Associate Editor	Dec / 2013	present

---

<sup>19</sup> ACM TISSEC is a top journal in computer security.

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

<b>Journal</b>	<b># Reviewed / Refereed</b>	<b>Date(s)</b>
Journal of Network and Systems Management	1	Dec / 2002
International Journal of Cooperative Information Systems	1	Jul / 2003
IEEE Transactions on Wireless Communications	2	Apr / 2004, Aug / 2004
IEEE Transactions on Dependable and Secure Computing	5	Jun / 2004, Jun / 2005, Jul / 2009, Feb / 2010, Jul / 2013
The International Journal on Very Large Data Bases, special issue on Privacy-Preserving Data Management	1	Dec / 2005
EURASIP Journal on Wireless Communications and Networking	1	Apr / 2006
Journal of Computers	1	Oct / 2006
Software: Practice and Experience	1	Dec / 2006
IEEE Transactions on Mobile Computing	1	May / 2008
Journal of Systems and Software	1	Feb / 2009
Computers & Security	6	Feb / 2009, Feb / 2010, Nov / 2010, Nov / 2011, Oct / 2013, Nov / 2013
IEEE Transactions on Dependable and Secure Computing	3	Feb / 2010, May / 2014, Oct / 2014
ACM Transactions on Information and System Security (TISSec)	1	Apr / 2010
International Journal of Critical Computer-Based Systems (IJCCBS)	1	Aug / 2010
IEEE Internet Computing	1	Oct / 2010
IET Information Security	1	Nov / 2013
Communications of the ACM	1	Sep / 2014
ACM Transactions on Computer-Human Interaction	1	May / 2015
IEEE Transactions on Information Forensics & Security	1	Aug / 2015

Note: The fields of computer security and distributed systems are highly oriented towards conferences, with second and third-tier conferences having acceptance rates between 20% and 40%, and top tier conferences with acceptance rates in 8%-20%. As a result, service on Technical Program Committees requires significant effort in reviewing (and some times shepherding) submissions, each 10-15 page long. See also Section 9 (g) for services on PCs.

Conference	Organization	# Reviewed / Refereed	Date(s)
International Conference on Software, Telecommunications and Computer Networks		1	Jul / 2000, Aug / 2001
IEEE International Workshop on Policies for Distributed Systems and Networks	IEEE	3	Feb / 2002, 2003, 2004
IEEE International Conference on Web Services	IEEE	2	Feb / 2003
IFIP Networking Conference 2005	IFIP	1	Jan / 2005
IEEE Conference on Systems, Man, and Cybernetics	IEEE	1	2005
USENIX Security Symposium	USENIX	1	Mar / 2007
3rd IEEE International Conference on Wireless and Mobile Computing, Networking and Communications	IEEE	1	May / 2007
IEEE Symposium on Security and Privacy	IEEE	2	May / 2009
Graphics Interface		1	Jan / 2012
SIGCHI Conference on Human Factors in Computing Systems (CHI)	ACM	1 1 5	Nov / 2012 Nov / 2013 Nov / 2014

Professional Magazine	Organization	# Reviewed / Refereed	Date(s)
IEEE Software	IEEE	4	Oct / 2005, Jun / 2005, Oct / 2007
IEEE Security & Privacy	IEEE	3 1	Feb / 2007, Dec / 2009, Apr / 2010 Oct / 2014
IEEE Internet Computing	IEEE	2	Oct / 2007 Oct / 2010

Organization / Agency	Type of Grant	# Reviewed / Refereed	Date(s)
Manning Innovation Awards		1	Feb / 2005
Netherlands Organization for Scientific Research	FOCUS Program (Research)	1	Apr / 2005
MITACS Network of Centres of Excellence		3	Jan / 2007, Feb / 2008, Feb / 2010
NSERC	Strategic Project	2	Jan / 2007, Jan / 2008
NSERC	Discovery	6	Jan / 2008, Jan / 2010, Jan / 2011, Jan / 2012,

Organization / Agency	Type of Grant	# Reviewed / Refereed	Date(s)
			Jan / 2013
MITACS	Accelerate Internships	1	Aug / 2011
Fonds de recherche du Québec - Nature et technologies	New University Researchers Start-up Program	1	Dec / 2014

Book Proposal (Topic)	Publisher	# Reviewed / Refereed	Date(s)
Wireless Internet security	Cambridge University Press	1	Oct / 2006
Computer security textbook	Cambridge University Press	1	May / 2010

- External Reviewer for a tenure case, Carleton University, Feb / 2008
- Advised NSERC in identifying specific research topics that would form one of the strategic target areas, entitled "Safety and Security for All," for Strategic Project Grants Program, Oct / 2005

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

University	Degree	Student	Date
Katholieke Universiteit Leuven, Belgium	Ph.D.	Bart de Win	02 / Mar / 2004
Simon Fraser University	M.Sc.	Nima Kaviani	16 / Jul / 2007
Carleton University, Ottawa	Ph.D.	Sonia Chiasson	17 / Dec / 2008

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

(i) *Other service to the community*

- Editor, CORBA Security FAQ, 1997 – 1999
- Moderator, CORBA Security mailing list, 1998 – 2000
- Judge, Annual Science Fair for 8<sup>th</sup> grade students of Point Grey Mini School, Vancouver, 23 / Feb / 2006, 29 / Jan / 2009

## 12. **AWARDS AND DISTINCTIONS**

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

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

- Best paper award at the IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM), 2013.
- Best Paper award at the 27th Annual Computer Security Applications Conference (ACSAC) for “The socialbot network: when bots socialize for fame and money,” Dec / 2011.
- Best Paper award at the Symposium on Usable Privacy and Security (SOUPS) for “Heuristics for Evaluating IT Security Management Tools,” Jul / 2011.
- Florida International University Presidential Fellowship, Jan / 2000 – Aug / 2000

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

(d) *Other Awards*

**13. OTHER RELEVANT INFORMATION (Maximum One Page)**

- (a) **Number of citations and h-index.** One of the possible indicators of research impact is the number of citations research publications receive. According to Google Scholar, my publications have generated over 2,000 citations and the corresponding **h-index** is **28** (August 2015).
- (b) **Number of paper downloads.** The ACM portal estimates that, over the last 12 months, my 74 publications available online through this online library have been **downloaded over 2,400 times** (August 2015).
- (c) **Media Coverage.** A project on Social Botnets that I co-supervise with Prof. Matei Ripeanu has received extensive coverage around the world (Google was returning over 18,000 hits on April 2013). Over 20 media outlets in 11 languages have covered the project. More updates on the media coverage of this project can be found at [http://netsyslab.ece.ubc.ca/wiki/index.php/Cyber\\_Threats](http://netsyslab.ece.ubc.ca/wiki/index.php/Cyber_Threats)

**THE UNIVERSITY OF BRITISH COLUMBIA**  
***Publications Record***

**SURNAME:** Beznosov

**FIRST NAME:** Konstantin

**Initials:**

**MIDDLE NAME (S):**

**Date:** 15-Sep-15

Main author name is in **bold**.

Presenter name is in *italics*.

(Co)supervised student or postdoctoral fellow name is underlined.

**NOTE:** For those not familiar with the field of computer security, publication in top international conferences is the preferred means of disseminating research results in this area. Papers in proceedings of top conferences, often with acceptance rates below 20%, are considered the primary venue for contributions with journals intended for expanded content.<sup>20</sup> The top computer security conferences are IEEE S&P, ACM CCS, USENIX Security, NDSS, followed by specialized highly competitive conferences, such as ACM CHI and SOUPS in the field of my specialization, which is usable security. The review process at these conferences is very rigorous: program committee (PC) members are internationally recognized experts in the field. Each paper typically receives four or more double-blind reviews (3 or more from PC members) providing detailed feedback. PC meetings are often attended in-person by PC members. Accepted papers are revised to reflect reviewers' feedback before publication. High quality papers deemed to be on the borderline of accept/reject often undergo an additional round of review by a PC member after revision and before final acceptance for publication (a process known as "shepherding"). Due to their impact, these conferences are very well attended. Given their importance, papers published in the proceedings of these conferences are read and cited by active researchers in the area even if those researchers did not attend the conference.

Since July 2010, I have co-authored 14 publications in such top conferences as SOUPS, NDSS, ACM CCS, USENIX Security, and ACM CHI.

Electronic copies of the publications listed below can be found at [www.ece.ubc.ca/~beznosov](http://www.ece.ubc.ca/~beznosov)

**1. REFEREED PUBLICATIONS**

(a) *Journals*

1. H. Kim, K. Beznosov, and E. Yoneki, "A Study on the Influential Neighbors to Maximize Information Diffusion in Online Social Networks" in *Computational Social Networks*, Springer, February 2015, vol. 2 n. 3, 15 pages. (DOI 10.1186/s40649-015-0013-8)
2. **P. Jaferian**, *K. Hawkey*, A. Sotirakopoulos, M. Velez-Rojas, K. Beznosov, "Heuristics for Evaluating IT Security Management Tools," in *Human-Computer Interaction*, Erlbaum-Taylor & Francis, (impact factor 6.109), published online July 22, 2013, pp. 311—350. (DOI:10.1080/07370024.2013.819198)
3. **S. Sun**, E. Pospisil, I. Muslukhov, N. Dindar, *K. Hawkey*, and K. Beznosov, "Investigating users' perspectives of web single sign-on: Conceptual gaps and acceptance model," in *ACM Transactions on Internet Technology (TOIT)*, (impact factor 0.89), vol. 13 issue 1, November 2013, pp. 2:1—2:35. (DOI: <http://dx.doi.org/10.1145/2532639>)

---

<sup>20</sup> See Chapter 4 in the 1994 National Academy of Sciences report, *Academic Careers for Experimental Computer Scientists and Engineers* (<http://books.nap.edu/html/acesc>) and the 1999 *Best Practices Memo: Evaluating Computer Scientists and Engineers For Promotion and Tenure* ([http://www.cra.org/uploads/documents/resources/bpmemos/tenure\\_review.pdf](http://www.cra.org/uploads/documents/resources/bpmemos/tenure_review.pdf))

4. H. Nicanfar, P. Jokar, K. Beznosov, V. C. M. Leung, "Efficient Authentication and Key Management Mechanisms for Smart Grid Communications," *IEEE Systems Journal* (impact factor 0.923), volume: pp, issue: 99, July 2013, pp. 629—640.  
(DOI: <http://dx.doi.org/10.1109/JSYST.2013.2260942>)
5. **Y. Boshmaf, I. Muslukhov**, K. Beznosov, M. Ripeanu, "Design and analysis of a social botnet," In *Computer Networks* (impact factor 1.2), v57, n2 (February 2013), pp. 556—578.  
DOI=10.1016/j.comnet.2012.06.006 <http://dx.doi.org/10.1016/j.comnet.2012.06.006>
6. **P. Kini**, K. Beznosov, "Speculative Authorization," In *IEEE Transactions on Parallel and Distributed Systems* (impact factor 1.4), v.24. n.4, pp. 814—824, April 2013.  
(<http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=6216361>).
7. **S. Sun, K. Hawkey**, and K. Beznosov, "Systematically breaking and fixing OpenID security: Formal analysis, semi-automated empirical evaluation, and practical countermeasures," *Computers & Security* (impact factor 1.075), vol. 31, issue 4, 2012, pp. 465—483, doi:10.1016/j.cose.2012.02.005
8. **W. Darwish** and K. Beznosov "Analysis of ANSI RBAC Support in EJB," *International Journal of Secure Software Engineering (IJSSE)* vol. 2 issue: 2, 2011, pp. 25—52.  
DOI: <http://dx.doi.org/10.4018/jsse.2011040102>
9. **D. Botta, K. Muldner**, K. Hawkey, and K. Beznosov, "Toward Understanding Distributed Cognition in IT Security Management: The Role of Cues and Norms," in the *International Journal of Cognition, Technology & Work*, Springer, June 2011, vol. 13, issue 2, pp. 121—134.  
DOI: <http://dx.doi.org/10.1007/s10111-010-0159-y>.
10. **W. Darwish**, K. Beznosov, "Analysis of ANSI RBAC Support in COM+," in *Computer Standards & Interfaces* (impact factor 1.118), Elsevier, vol. 32 Issue 4, pp. 197—214.  
DOI: <http://dx.doi.org/10.1016/j.csi.2009.12.001>, June 2010.
11. **Q. Wei**, J. Crampton, K. Beznosov, M. Ripeanu, "Authorization Recycling in Hierarchical RBAC Systems," in *ACM Transactions on Information and System Security (TISSEC)*, vol. 14 issue 1, pp. 3:1—3:29  
DOI: <http://dx.doi.org/10.1145/1952982.1952985>
12. **R. Werlinger**, K. Muldner, K. Hawkey, K. Beznosov, "Examining Diagnostic Work Practices during Security Incident Response" in the *Journal of Information Management & Computer Security*, Emerald, vol. 18 issue: 1, 2010, pp.26—42.  
DOI: <http://dx.doi.org/10.1108/09685221011035241>
13. **S. Sun** and K. Beznosov, "Retrofitting Existing Web Applications with Effective Dynamic Protection Against SQL Injection Attacks," *International Journal of Secure Software Engineering (IJSSE)*, IGI Global, January 2010, pp. 20—40.
14. **R. Werlinger**, K. Hawkey, D. Botta, K. Beznosov, "Security practitioners in context: Their activities and interactions with other stakeholders within organizations," *International Journal of Human Computer Studies* (5-year impact factor 1.968), Elsevier, vol.6, no.7, March 2009, pp. 584—606, DOI: 10.1016/j.ijhcs.2009.03.002.
15. **H. A. Rahman**, K. Beznosov, J. R. Martí, "Identification of Sources of Failures and Their Propagation in Critical Infrastructures from 12 Years of Public Failure Reports," *International Journal of Critical Infrastructure Systems*, 2009, vol.5, No.3, pp. 220—244.
16. **R. Werlinger**, K. Hawkey, K. Beznosov, "An Integrated View of Human, Organizational, and Technology Challenges in IT Security Management," *Journal of Information Management & Computer Security*, Emerald, vol. 17, no. 1, January 2009, pp. 4—19,  
DOI= <http://dx.doi.org/10.1108/09685220910944722>
17. **Q. Wei**, M. Ripeanu, K. Beznosov, "Cooperative Secondary Authorization Recycling" *IEEE Transactions on Parallel and Distributed Systems* (impact factor 1.4), vol. 20, no. 2, February 2009, pp. 275—288,  
DOI= <http://dx.doi.org/10.1109/TPDS.2008.80>

18. **K. Hawkey**, **K. Muldner**, **K. Beznosov**, "Searching for the Right Fit: A case study of IT Security Management Models," *IEEE Internet Computing* (impact factor 2), vol. 12, no. 3, May/June 2008, pp. 22—30.
19. **K. Beznosov** and **O. Beznosova**, "On the Imbalance of the Security Problem Space and its Expected Consequences," *Journal of Information Management & Computer Security*, Emerald, vol. 15 no.5, September 2007, pp.420—431.
20. **Y. Song**, **K. Beznosov**, **V.C.M. Leung**, "Multiple Channel Security Model and Its Implementation over SSL," *EURASIP Journal on Wireless Communications and Networking* (impact factor 0.87), vol. 2006 issue 2, article ID 85495, 14 pages, July 2006.
21. **Deng, Y.**, **Wang, J.**, **Tsai, J. J. P.**, and **Beznosov, K.**, "An Approach for Modeling and Analysis of Security System Architectures," *IEEE Transactions on Knowledge and Data Engineering* (impact factor 1.66), vol. 15, no. 5, September/October 2003, pp. 1095—1115.

(b) *Conference Proceedings*

1. **J. H. Huh**, **S. Oh**, **H. Kim**, **K. Beznosov**, **A. Mohan**, **S. Rajagopalan** "Surpass: System-initiated user-replaceable passwords," in Proceedings of ACM Conference on *Computer and Communications Security* (CCS), Denver, Colorado, October 13-15, 2015, 12 pages (acceptance rate: 20%).
2. **S.T. Sun**, **A. Cuadros**, **K. Beznosov**, "Android Rooting: Methods, Detection, and Evasion," in Proceedings of ACM CCS Workshop on *Security and Privacy in Smartphones and Mobile Devices* (SPSM), Denver, Colorado, October 12, 2015, 12 pages.
3. **Y. Boshmaf**, **M. Ripeanu**, **K. Beznosov**, **E. Santos-Neto**, "Thwarting Fake OSN Accounts by Predicting their Victims," in Proceedings of ACM CCS Workshop on *Artificial Intelligence and Security*, Denver, Colorado, October 16, 2015, 9 pages.
4. **P. Wijesekera**, **A. Baokar**, **A. Hosseini**, **S. Egelman**, **D. Wagner**, **K. Beznosov**, "Android Permissions Remystified: A Field Study on Contextual Integrity," in Proceedings of *USENIX Security Symposium*, August 12-14, 2015, Washington, DC, pp. 499—514 (acceptance rate: 16%).
5. **I. Cherapau**, **I. Muslukhov**, **N. Asanka**, and **K. Beznosov**, "On the Impact of Touch ID on iPhone Passcodes," in Proceedings of Symposium On Usable Privacy and Security (SOUPS), Ottawa, Canada, July 22-24, 2015, pp. 257—276 (acceptance rate: 24%).
6. **J. H. Huh**, **H. Kim**, **R. B. Bobba**, **M. N. Bashir**, **K. Beznosov**, "On the Memorability of System-generated PINs: Can Chunking Help?" in Proceedings of *Symposium On Usable Privacy and Security* (SOUPS), Ottawa, Canada, July 22-24, 2015, pp. 197—209, (acceptance rate: 24%).
7. **Y. Boshmaf**, **D. Logothetis**, **G. Siganos**, **J. Lería**, **J. Lorenzo**, **M. Ripeanu**, **K. Beznosov**, "Integro: Leveraging Victim Prediction for Robust Fake Account Detection in OSNs," in Proceedings of *Network and Distributed System Security Symposium* (NDSS), San Diego, CA, 08-11 February, 2015 (acceptance rate: 17%), 15 pages.
8. **H. Rashtian**, **Y. Boshmaf**, **P. Jaferian**, **K. Beznosov**, "To Befriend Or Not? A Model of Friend Request Acceptance on Facebook," in Proceedings of the *Symposium on Usable Privacy and Security* (SOUPS), Carnegie Mellon University, Pittsburgh, PA, USA, July 9-11, 2014, (acceptance rate 27%), pp. 285-300.

9. **P. Jaferian**, H. Rashtian, K. Beznosov, "To Authorize or Not Authorize: Helping Users Review Access Policies in Organizations," in Proceedings of the *Symposium on Usable Privacy and Security (SOUPS)*, USA, July 9-11, 2014, (acceptance rate 27%), pp. 301-320.
10. **H. Kim**, K. Beznosov, and E. Yoneki, "Finding influential neighbors to maximize information diffusion in twitter,"<sup>22</sup> In Proceedings of SIMPLEX: The 6th Annual Workshop on *Simplifying Complex Networks for Practitioners*, held in conjunction with the 23rd international conference on World wide web (WWW), Seoul, Korea, April 2014, pp. 701-706.  
DOI=10.1145/2567948.2579358 <http://dx.doi.org/10.1145/2567948.2579358>
11. **I. Muslukhov**, Y. Boshmaf, C. Kuo, J. Lester, and K. Beznosov, "Know Your Enemy: The Risk of Unauthorized Access in Smartphones by Insiders," In Proceedings of the 15th International Conference on *Human-computer Interaction with Mobile Devices and Services (Mobile HCI)*, August 27 - 30, 2013, Munich, Germany, pp. 271-280 (acceptance rate 27%).
12. **(best paper award) Y. Boshmaf**, K. Beznosov, M. Ripeanu, "Graph-based Sybil Detection in Social and Information Systems," In the Proceedings of the 2013 IEEE/ACM *International Conference on Advances in Social Networks Analysis and Mining (ASONAM'13)*, Niagara Falls, Canada, August 25-28, 2013, pp. 466-473 (acceptance rate 13%).
13. **S. Torabi**, K. Beznosov, "Privacy Aspects of Health Related Information Sharing in Online Social Networks," USENIX Workshop on *Health Information Technologies (HealthTech '13)*, 12 August 2013, Washington, USA, 12 pages.
14. **S. Egelman**, A. Sotirakopoulos, I. Muslukhov, K. Beznosov, and C. Herley, "Does My Password Go up to Eleven? The Impact of Password Meters on Password Selection," In Proceedings of *ACM Computer-Human Interaction (CHI)* Conference, pp. 2379-2388, 29 April - 2 May 2013, Paris, France, (acceptance rate 20%).
15. **S. Sun** and K. Beznosov, "The Devil is in the (Implementation) Details: an Empirical Analysis of OAuth SSO Systems," In Proceedings of the ACM Conference on *Computer and communications Security (CCS)*, October 16-18, 2012, Raleigh, NC, USA, pp. 378-390, (acceptance rate 19%).  
DOI=10.1145/2382196.2382238 <http://doi.acm.org/10.1145/2382196.2382238>
16. **Y. Boshmaf**, I. Muslukhov, K. Beznosov, M. Ripeanu, "Key challenges in defending against malicious socialbots," in Proceedings of the 5th USENIX Workshop on *Large-scale Exploits and Emergent Threats*, (LEET '12), Berkeley, CA, USA, USENIX Association, 24 April 2012, 4 pages.
17. **I. Muslukhov**, Y. Boshmaf, C. Kuo, J. Lester, K. Beznosov, "Understanding Users' Requirements for Data Protection in Smartphones," in Proceedings of ICDE Workshop on *Secure Data Management on Smartphones and Mobiles*, Washington D.C., USA, 5 April 2012, pp. 228-235.
18. **(best paper award) Y. Boshmaf**, I. Muslukhov, K. Beznosov, and M. Ripeanu, "The socialbot network: when bots socialize for fame and money," in Proceedings of the 27th *Annual Computer Security Applications Conference (ACSAC'11)*, Orlando, Florida, 5-9 December 2011, pp. 93-102, (acceptance rate 25%), DOI=10.1145/2076732.2076746.
19. **S. Sun**, E. Pospisil, I. Muslukhov, N. Dindar, K. Hawkey, and K. Beznosov, "What makes users refuse web single sign-on? an empirical investigation of OpenID," in Proceedings of the *Symposium on Usable Privacy and Security (SOUPS)*, Carnegie Mellon University, Pittsburgh, PA, USA, July 20-22, 2011, 20 pages. (acceptance rate 33%)
20. **F. Raja**, K. Hawkey, S. Hsu, K. C. Wang, and K. Beznosov, "A Brick Wall, a Locked Door, and a Bandit: A Physical Security Metaphor For Firewall Warnings," in Proceedings of the *Symposium on Usable Privacy and Security (SOUPS)*, Carnegie Mellon University, Pittsburgh, PA, USA, July 20-22, 2011, 20 pages. (acceptance rate 33%)

---

<sup>22</sup> "runner up" for best paper.

21. **(best paper award) P. Jaferian**, K. Hawkey, A. Sotirakopoulos, M. Velez-Rojas, K. Beznosov, "Heuristics for Evaluating IT Security Management Tools," in Proceedings of the *Symposium on Usable Privacy and Security (SOUPS)*, Carnegie Mellon University, Pittsburgh, PA, USA, July 20-22, 2011, 20 pages. (acceptance rate 33%)
22. **A. Sotirakopoulos**, K. Hawkey, and K. Beznosov, "On the Challenges in Usable Security Lab Studies: Lessons Learned from Replicating a Study on SSL Warnings," in Proceedings of the *Symposium on Usable Privacy and Security (SOUPS)*, Carnegie Mellon University, Pittsburgh, PA, USA, July 20-22, 2011, 20 pages. (acceptance rate 33%)
23. **K. Zeeuwen**, M. Ripeanu, and K. Beznosov, "Improving malicious URL re-evaluation scheduling through an empirical study of malware download centers," In *Proceedings of the 2011 Joint WICOW/AIRWeb Workshop on Web Quality (WebQuality '11)*, ACM, pp. 42-49. <http://doi.acm.org/10.1145/1964114.1964123>
24. **S. Sun**, K. Hawkey, and K. Beznosov, "OpenIDemail Enabled Browser: Towards Fixing the Broken Web Single Sign-On Triangle," in *Proceedings of the Sixth ACM Workshop on Digital Identity Management (DIM)*, 8 October 2010, pp. 49-58.
25. **F. Raja**, K. Hawkey, P. Jaferian, K. Beznosov, and K. S. Booth, "It's Too Complicated, So I Turned It Off! Expectations, Perceptions, and Misconceptions of Personal Firewalls," in *Proceedings of the Third ACM Workshop on Assurable & Usable Security Configuration (SafeConfig)*, Chicago, IL, USA, 4 October 2010, pp. 53-62.
26. **S. Sun**, Y. Boshmaf, K. Hawkey, K. Beznosov, "A Billion Keys, but Few Locks: The Crisis of Web Single Sign-On," in *Proceedings of the New Security Paradigms Workshop (NSPW)*, Concord, MA. USA, 20-22 September 2010, pp. 61-72. (acceptance rate 41%)
27. **S. Motiee**, K. Hawkey, K. Beznosov, "Investigating User Account Control Practices" in *Proceedings of the Symposium on Usable Privacy and Security (SOUPS)*, Microsoft, Redmond, WA, USA, 14-16 July 2010, 12 pages. (acceptance rate 25%).
28. **H. Xiong**, K. Beznosov, M. Ripeanu, "Efficient and Spontaneous Privacy-Preserving Protocol for Secure Vehicular Communication" in *Proceedings of the IEEE International Communications Conference (ICC)*, Cape Town, South Africa, 23-27 May 2010, pp. 1-6.
29. **P. Jaferian**, D. Botta, K. Hawkey, and K. Beznosov, "A Case Study of Enterprise Identity Management System Adoption in an Insurance Organization," in *Proceedings of the ACM Computer Human Interaction for Management of Information Technology (CHIMIT) Symposium*, November 2009. (33% acceptance rate)
30. **S. Sun**, K. Hawkey, and K. Beznosov, "Secure Web 2.0 Content Sharing Beyond Walled Gardens" in Proceedings of Annual Computer Security Applications Conference (ACSAC), 7-11 December 2009, pp. 409-418. (acceptance rate 20%)
31. **F. Raja**, K. Hawkey, K. Beznosov, "Revealing Hidden Context: Improving Mental Models of Personal Firewall Users" in Proceedings of the *Symposium on Usable Privacy and Security (SOUPS)*, 15-17 July 2009, article 1, 12 pages. (acceptance rate 30%)
32. **R. Werlinger**, K. Muldner, K. Hawkey, K. Beznosov, "Towards Understanding Diagnostic Work During the Detection and Investigation of Security Incidents" in *Proceedings of the International Symposium on Human Aspects of Information Security & Assurance (HAISA)*, 25-26 June 2010, pp. 119-132.
33. **O. Zheng**, J. Poon, K. Beznosov, "Application-Based TCP Hijacking" in *Proceedings of the European Workshop on System Security (EuroSec)*, 31 March 2009, Nuremberg, Germany, pp. 9-15.
34. **P. Jaferian**, D. Botta, F. Raja, K. Hawkey, K. Beznosov, "Guidelines for design of IT Security Management Tools" in *Proceedings of the ACM Computer Human Interaction for Management of Information Technology (CHIMIT) Symposium*, San Diego, CA, November 2008, 10 pages. (29% acceptance rate)

35. **Q. Wei**, M. Ripeanu, and K. Beznosov, "Authorization Using the Publish-Subscribe Model," in the Proceedings of the *IEEE International Symposium on Parallel and Distributed Processing with Applications (ISPA)*, Sydney, Australia, December 10-12, 2008, pp. 53-62. (acceptance rate 36%)
36. **Y. Natchetoi**, K. Beznosov, *V. Kaufman*, "Mobile Applications for Public Sector: Balancing Usability and Security" in the *Collaboration and the Knowledge Economy: Issues, Applications, Case Studies*, Paul Cunningham and Miriam Cunningham (Eds), IOS Press, 2008 Amsterdam, ISBN 978-1-58603-924-0, Stockholm, Sweden, 22 - 24 October 2008, article #117, 6 pages.
37. **R. Werlinger**, *K. Hawkey*, *K. Muldner*, *P. Jaferian*, K. Beznosov "The Challenges of Using an Intrusion Detection System: Is It Worth the Effort?" in *Proceedings of the Symposium on Usable Privacy and Security (SOUPS)*, Carnegie Mellon University, Pittsburgh, PA, USA, 23-25 July 2008, paper #10, 12 pages. (acceptance rate 26%).
38. (**best paper award**) **R. Werlinger**, *K. Hawkey*, K. Beznosov, "Human, Organizational and Technological Challenges of Implementing IT Security in Organizations," in *Proceedings of the International Symposium on Human Aspects of Information Security & Assurance (HAISA)*, University of Plymouth, UK, 8-10 July 2008, pp. 35-48.
39. **A. Gagné**, *K. Muldner*, K. Beznosov, "Identifying Differences Between Security and Other IT Practitioners: a Qualitative Analysis," in *Proceedings of the International Symposium on Human Aspects of Information Security & Assurance (HAISA)*, University of Plymouth, UK, 8-10 July 2008, pp. 69-80.
40. **Q. Wei**, J. Crampton, K. Beznosov, M. Ripeanu, "Authorization Recycling in RBAC Systems" in *Proceedings of the ACM Symposium on Access Control Models and Technologies (SACMAT)*, Estes Park, Colorado, 11-13 June 2008, pp.63-72. (22% acceptance rate)
41. **D. Botta**, *R. Werlinger*, *A. Gagné*, *K. Beznosov*, L. Iverson, S. Fels, B. Fisher, "Towards Understanding IT Security Professionals and Their Tools," in *Proceedings of the Symposium on Usable Privacy and Security (SOUPS)*, Carnegie Mellon University, Pittsburgh, PA, USA, 19-21 July 2007, pp. 100-111. (acceptance rate 32%)
42. **Q. Wei**, M. Ripeanu, K. Beznosov, "Cooperative Secondary and Approximate Authorization Recycling," in *Proceedings of the IEEE International Symposium on High-Performance Distributed Computing (HPDC)*, Monterey Bay, CA, 27-29 June 2007, pp. 65-74. (acceptance rate 20%).
43. **K. Beznosov**, O. Beznosova, "On the Imbalance of the Security Problem Space and its Expected Consequences," in *Proceedings of the International Symposium on Human Aspects of Information Security & Assurance (HAISA)*, University of Plymouth, UK, 10 July 2007, pp. 128-140.
44. **J. Tsang** and K. Beznosov, "A Security Analysis of the Precise Time Protocol (Short Paper)" in *Proceedings of the Eighth International Conference on Information and Communications Security (ICICS '06)*, Raleigh, North Carolina, USA, December 4-7, 2006, pp.50-59.
45. **J. Crampton**, *W. Leung*, K. Beznosov, "The Secondary and Approximate Authorization Model and its Application to Bell-LaPadula Policies," in *Proceedings of the ACM Symposium on Access Control Models and Technologies (SACMAT)*, Lake Tahoe, California, USA, 7-9 June, 2006, pp. 111-120. (acceptance rate 30%)
46. **G. Boström**, J. Wäyrynen, M. Bodén, K. Beznosov, Ph. Kruchten, "Extending eXtreme Programming to Support Security Requirements Engineering" *Proceedings of the Workshop on Software Engineering for Secure Systems (SESS)*, Shanghai, 20-21 May 2006, pp.11-17.
47. **H. Rahman**, K. Beznosov, "SPAPI: A Security and Protection Architecture for Physical Infrastructures and its Deployment Strategy Using Sensor Networks" in *Proceedings of 10th IEEE International Conference on Emerging Technologies and Factory Automation*, Facolta' di Ingegneria, Catania, Italy, 19-22 September 2005, pp. 885-892.
48. K. Beznosov, "Flooding and Recycling Authorizations" in *Proceedings of New Security Paradigms Workshop (NSPW)*, 2005, Lake Arrowhead, CA, USA, 20-23 September 2005, pp. 67-72. (acceptance rate 35%)

49. K. Beznosov, "Experience Report: Design and Implementation of a Component-Based Protection Architecture for ASP.NET Web Services," in *Proceedings of the Eighth International SIGSOFT Symposium on Component-based Software Engineering (CBSE 2005)*, St. Louis, Missouri, USA, 15-21 May 2005, pp. 337-352. (acceptance rate 25%)
50. K. Beznosov, "On the Benefits of Decomposing Policy Engines into Components," in *Proceedings of The 3rd Workshop on Reflective and Adaptive Middleware*, Toronto, ON, Canada, 19 October 2004, pp. 183-188.
51. K. Beznosov, "Here's Your Lego™ Security Kit: How to Give Developers All Protection Mechanisms They Will Ever Need," in *Proceedings of Software Engineering and Middleware (SEM) Workshop*, pp. 3-18, Linz, Austria, 20-21 September 2004.
52. **K. Beznosov** and P. Kruchten, "Towards Agile Security Assurance," in *Proceedings of The New Security Paradigms Workshop*, White Point Beach Resort, Nova Scotia, 20-23 September 2004. pp. 47-54.
53. **Y. Song**, V.C.M. Leung, K. Beznosov, "Implementing Multiple Channels over SSL," in *Proceedings of the 1st International Conference on E-business and Telecommunication Networks*, pp. 246-253, Setúbal, Portugal, 25-28 August 2004.
54. **Y. Song**, V. C. M. Leung, K. Beznosov, "Supporting End-to-end security Across Proxies with Multiple-channel SSL," in *Proceedings of the 19th IFIP International Information Security Conference*, pp. 323—337, Toulouse, France, 23-26 August 2004.
55. **S. Gao**, Y. Deng, H. Yu, X. He, K. Beznosov, K. Cooper, "Applying Aspect-Oriented Design in Designing Security Systems: A Case Study," in *Proceedings of the Sixteenth International Conference on Software Engineering and Knowledge Engineering (SEKE'04)*, pp. 360-365, Banff, Alberta, Canada, June 20-24, 2004.
56. K. Beznosov, "Extreme Security Engineering: On Employing XP Practices to Achieve 'Good Enough Security' without Defining It," in *Proceedings of the First ACM Workshop on Business Driven Security Engineering*, pp. TBD, Fairfax, VA, USA, 31 October 2003.
57. K. Beznosov, "Object Security Attributes: Enabling Application-specific Access Control in Middleware," in *Proceedings of 4th International Symposium on Distributed Objects & Applications (DOA)*, Irvine, California, USA, October 28 - November 1 2002, pp. 693-710.
58. K. Beznosov, **L. Espinal**, and Y. Deng, "Performance Considerations for CORBA-based Application Authorization Service," in *Proceedings of Fourth IASTED International Conference Software Engineering and Applications*, Las Vegas, Nevada, USA, November 2000.
59. **K. Beznosov** and Y. Deng, "A Framework for Implementing Role-based Access Control Using CORBA Security Service," in *Proceedings of Fourth ACM Workshop on Role-Based Access Control*, Fairfax, Virginia, USA, October 1999, pp. 19-30.
60. **J. Barkley**, K. Beznosov, and J. Uppal, "Supporting Relationships in Access Control Using Role Based Access Control," in *Proceedings of Fourth ACM Role-based Access Control Workshop*, Fairfax, Virginia, USA, October 1999, pp. 55-65.
61. **K. Beznosov**, Y. Deng, B. Blakley, C. Burt, and J. Barkley, "A Resource Access Decision Service for CORBA-based Distributed Systems," in *Proceedings of Annual Computer Security Applications Conference*, Phoenix, Arizona, USA, December 1999, pp. 310-319.

(c) *Other*International Standards

1. Contributor, *OASIS eXtensible Access Control Markup Language (XACML) version 1.0*, OASIS XACML-TC, February 18 2003.
2. Editor, *Security Domain Membership Management Service, Final Submission*, Object Management Group, document number orbos/2001-07-20, July 11 2001.
3. Co-author, *Resource Access Decision Facility*, Object Management Group, document number formal/2001-04-01, August 2001.

**2. NON-REFEREED PUBLICATIONS**(a) *Journals*

1. K. Beznosov, B. Chess, "Security for the Rest of Us: An Industry Perspective on the Secure-Software Challenge," *IEEE Software*, vol .25, no. 1, Jan / 2008, pp. 10-12.

(b) *Conferences and Workshops*

1. **J. H. Huh**, H. Kim, R. Bobba, M. Bashir, K. Beznosov, "On the Memorability of System-generated PINs: Can Chunking Help?" presented at Who are you?! Adventures in Authentication: WAY Workshop, SOUPS, July 9, 2014, 2 pages.
2. **P. Wijesekera**, **I. Cherapau**, A. Samarakoon, K. Beznosov, "Cued Mnemonics for Better Security and Memorability" presented at Who are you?! Adventures in Authentication: WAY Workshop, SOUPS, July 9, 2014, 2 pages.
3. **N. Arachchilage**, I. Flechais, K. Beznosov, "A Game Storyboard Design for Avoiding Phishing Attacks" Poster presented at the Symposium on Usable Privacy and Security (SOUPS), Carnegie Mellon University, Pittsburgh, PA, USA, July 9, 2014.
4. **P. Jaferian**, K. Beznosov, "Helping Users Review and Make Sense Of Access Policies In Organizations," In *Proceedings of the 32th ACM International Conference Extended Abstracts on Human Factors in Computing Systems (CHI '14)*, Toronto, ON, Canada, 2014, 6 pages. (49% acceptance rate).
5. **O. Komili**, **K. Zeeuwen**, M. Ripeanu, K. Beznosov, "Strategies for Monitoring Fake AV Distribution Networks," Virus Bulletin Conference, Barcelona, Spain, September 2011, 14 pages.
6. **F. Raja**, K. Hawkey, S. Hsu, K. C. Wang, K. Beznosov, "Promoting A Physical Security Mental Model For Personal Firewall Warnings," In *Proceedings of the 29th ACM International Conference Extended Abstracts on Human Factors in Computing Systems (CHI '11)*, Vancouver, BC, Canada, 2011, 6 pages.
7. **S. Sun**, E. Pospisil, I. Muslukhov, N. Dindar, **K. Hawkey**, K. Beznosov, "OpenID-Enabled Browser: Towards Usable and Secure Web Single Sign-On," In *Proceedings of the 29th ACM International Conference Extended abstracts on Human Factors in Computing Systems (CHI '11)*, Vancouver, Canada, 2011, 6 pages.
8. **P. Jaferian**, K. Hawkey, **A. Sotirakopoulos**, K. Beznosov, "Heuristics for Evaluating IT Security Management Tools," In *Proceedings of the ACM 29th international conference extended abstracts on Human factors in computing systems (CHI '11)*, Vancouver, Canada, 2011, 6 pages.

9. **S. Sun**, **K. Hawkey**, K. Beznosov, "Towards Enabling Web 2.0 Content Sharing Beyond Walled Gardens," presented at Workshop on Security and Privacy in Online Social Networking, Vancouver, Canada, 29 / Aug / 2009.
10. **K. Beznosov**, P. Inglesant, J. Lobo, R. Reeder, M. Zurko, "Usability Meets Access Control: Challenges and Research Opportunities" panel in *Proceedings of the ACM Symposium on Access Control Models and Technologies (SACMAT)*, Stresa, Italy, June 3-5, 2009, pp. 73-74.
11. **S. Sun**, **K. Beznosov**, "Open Problems in Users' Content Sharing in Web 2.0," presented at the Workshop on Open Research Problems in Network Security (iNetSec), 23-24 April 2009, Zurich, Switzerland, pp. 37-51.
12. **F. Raja**, **K. Hawkey**, K. Beznosov, "Revealing Hidden Context: Improving Mental Models of Personal Firewall Users" presented at Work in Progress poster session of the *ACM SIG CHI* conference, April 4-9, 2009, Boston, MA. (50% acceptance rate)
13. **P. Jaferian**, D. Botta, **K. Hawkey**, K. Beznosov, "Design guidelines for IT security management tools," presented at the Workshop on Usable IT Security Management, July 23, 2008, CMU, Pittsburgh, PA, USA.
14. **R. Werlinger**, **K. Hawkey**, K. Beznosov, "Responding to Security Incidents: Are Security Tools Everything You Need?" presented at the 20<sup>th</sup> Conference of the Forum of Incident Response and Security Teams (FIRST), June 22-27, 2008, Vancouver, Canada.
15. **K. Hawkey**, D. Botta, **R. Werlinger**, **K. Muldner**, **A. Gagné**, K. Beznosov "Human, Organizational, and Technological Factors of IT Security" presented at Research Landscape session of the *ACM SIG CHI* conference, April 5-10, 2008, Florence, Italy.
16. **R. Werlinger**, **K. Hawkey**, K. Beznosov "Security practitioners in context: Their activities and collaborative interactions" presented at Work in Progress poster session of the *ACM SIG CHI* conference, April 5-10, 2008, Florence, Italy. (30% acceptance rate)
17. **D. Botta**, **R. Werlinger**, **A. Gagné**, K. Beznosov, L. Iverson, S. Fels, B. Fisher, "Studying IT Security Professionals: Research Design and Lessons Learned," position paper at the CHI Workshop on Security User studies: Methodologies and Best Practices, San Francisco, CA, 28 April 2007, 4 pages.
18. **H. A. Rahman**, K. Beznosov, J. R. Martí, "Identification of Sources of Failures and Their Propagation in Critical Infrastructures from 12 Years of Public Failure Reports," In *Proceedings of the Third International Conference on Critical Infrastructures*, Alexandria, VA, USA, The International Institute for Critical Infrastructures, 24-27 September, 2006, 11 pages.
19. K. Beznosov, "Requirements for access control: US healthcare domain," Panel Position paper, In *Proceedings of the Third ACM Workshop on Role-Based Access Control*, Fairfax, Virginia, USA, October 1998, p.43.
20. **K. Wreder**, K. Beznosov, A. Bramblett, E. Butler, A. D'Empaire, E. Hernandez, E. Navarro, A. Romano, M. Tortolini-Taylor, E. Urzais, and R. Ventura, "Architecting a Computerized Patient Record with Distributed Objects," in *Proceedings of Health Information Systems Society Conference*, February 1998, pp. 149-158.
21. K. Beznosov, "Issues in the Security Architecture of the Computerized Patient Record Enterprise," *Second Workshop on Distributed Object Computing Security*, Baltimore, Maryland, USA, May 1998.

(c) *Other*

1. **K. Beznosov**, D. Flinn, S. Kawamoto, and B. Hartman, "Introduction to Web Services And Their Security," *Information Security Technical Report (ISTR)*, the Information Security Group, Royal Holloway, University of London and Elsevier publishers, vol. 10 no. 1, 2005, pp 2-14.
2. K. Beznosov, "Information Enterprise Architectures: Problems and Perspectives," School of Computer Science, Florida International University, Miami, technical report 2000-06, June 2000.

3. **L. Espinal**, K. Beznosov, and Y. Deng, "Design and Implementation of Resource Access Decision Server," Center for Advanced Distributed Systems Engineering (CADSE) - Florida International University, Miami, technical report 2000-01, January 2000.
4. W. Wilson and **K. Beznosov**, "CORBAmed Security White Paper," Object Management Group, document number corbamed/97-11-03, technical report, November 1997.
5. K. Beznosov, "Taxonomy of CPR enterprise security concerns at Baptist Health Systems of South Florida," Baptist Health Systems of South Florida, Miami, technical report, 1997.
6. K. Beznosov, "CPR Security CORBA-based Security and Intranet Services Object Technology Group Position Paper," Baptist Health Systems of South Florida, Miami, technical report, 1997.
7. K. Beznosov, "Applicability of CORBA Security to the Healthcare Problem Domain," Object Management Group, document number corbamed/97-09-11, September 1997.

### 3. **BOOKS**

#### (a) *Authored*

1. B. Hartman, D. Flinn, K. Beznosov, and S. Kawamoto, *Mastering Web Services Security*, 1st ed., New York, John Wiley & Sons, Inc., 2003, pp. 436.
2. B. Hartman, D. Flinn, and K. Beznosov, *Enterprise Security With EJB and CORBA*, New York, John Wiley & Sons, Inc., 2001, pp. 364.

#### (b) *Edited*

1. *Proceedings of New Security Paradigms Workshop*, Editors: R. Ford, C. Gates, K. Beznosov, ACM Press, 2010, 164 pages, ISBN: 978-1-4503-0415-3.
2. *Proceedings of New Security Paradigms Workshop*, Editors: K. Beznosov, A. D. Keromytis, M. H. Heydari, ACM Press, 2007, 102 pages, ISBN: 978-1-60558-080-7.

#### (c) *Chapters*

1. K. Beznosov, "Protecting ASP.NET Web Services," in *Securing Web Services: Practical Usage of Standards and Specifications*, Ed. P. Periorellis, Idea Group Inc., Hershey PA, 2008, ISBN: 978-1-59904-639-6, pp. 206-227.
2. **K. Beznosov** and Y. Deng, "Engineering Application-level Access Control in Distributed Systems," in *Handbook of Software Engineering And Knowledge Engineering*, Chang, S. K., Ed. World Scientific Publishing, 2002, pp. 69-90.

### 4. **PATENTS**

- K. Beznosov, J. Carter, J. Mwaura, H. Nguyen, "Method and system for authorization and access to protected resources," US Patent 7,260,831, 2007

### 5. **SPECIAL COPYRIGHTS**

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