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EDUCATION

University of Ottawa, Ottawa, Canada PhD in Computer Science, Advisors: Dr. Daniel Amyot and Dr. Liam Peyton	04/2013
University of Ottawa, Ottawa, Canada MSc. in System Science, Advisors: Dr. Daniel Amyot and Dr. Liam Peyton	05/2007
Amirkabir University of Technology, Tehran, Iran BSc. in Industrial and System Engineering	08/2003

RESEARCH INTERESTS

- Privacy and Security in Software Engineering
 - Privacy and Security for Internet of Things (IoT) and Cloud Computing
 - Regulatory Compliance Software Engineering
 - Usable Privacy
 - Applied Natural Language Processing and Machine Learning for Privacy Policy Analysis
 - Privacy by Design and Privacy Requirements Analysis
 - Goal-Oriented Requirements Modeling and Requirements Engineering
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TEACHING INTERESTS

Undergraduate Courses:

- Principle of Software and Requirements Engineering
- Software Design and Architecture
- Object-oriented Programming and Design
- Software Project Management
- Software Quality
- Software and Computer Security
- Usable Privacy and Security

Graduate Courses:

- Engineering Privacy in Software Systems (Advanced Topics in Software Engineering)
 - Usable Privacy and Security
 - Advanced Software Engineering
 - Software Metrics
 - Software Quality Management
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RESEARCH AND PROFESSIONAL EXPERIENCE

Texas Tech University, Lubbock, TX **08/2016 – Present**
Assistant Professor, Tenure - Track – Conducting foundational research and teaching on requirements, software and privacy engineering as well as legal-compliance related topics.

Radboud University, Nijmegen, The Netherlands **02/2016 – 07/2016**
Visiting Assistant Professor – Conducted research on privacy and software engineering, privacy by design strategies, principle-based enterprise engineering, argumentation framework for requirements engineering approaches.

Carnegie Mellon University, Pittsburgh, PA**02/2015 – 06/2015**

Visiting Faculty working with Dr. Travis Breaux – Developed a formal ontology for privacy-related regulations in the US and implemented algorithms for comparing the similarities and the differences in the definitions.

Luxembourg Institute of Science and Technology, Luxembourg**01/2014 – 12/2015**

Postdoctoral Fellow, Marie Curie Grant – Conducted research on legally compliant goal-oriented framework, multi-jurisdictional compliance framework, principle-based enterprise engineering, argumentation frameworks for requirements engineering.

PhD Supervision – Diana Marosin, PhD in Computer Science, Co-supervisor: Dr. Henderik A. Proper, Area of research: Principle-based Enterprise Engineering, Requirements Engineering, Goal-oriented Requirements Modeling; 2013 – 2017.

e-Dealer, Toronto, Canada**05/2013 – 12/2013**

Senior Project Manager – Successfully managed the release of the web-based system for dashboard reporting, inventory marketing and lead management, web and mobile sites for version 3 of new and used inventory, admin tool and iPhone application.

eHealth Ontario, Toronto, Canada**06/2011 – 05/2013**

Senior Business Technical Analyst – Part of teams that delivered healthcare information systems that defined business requirements, functional and technical design, and operations deliverables for 11 projects across the Agency.

University of Ottawa, Ottawa, Canada**09/2007 – 04/2013**

Research Assistant to Dr. Daniel Amyot and Dr. Liam Peyton, Business Intelligent Network (BIN) – Involved in a grant submission, which was awarded \$5 million by NSERC to develop intelligent data management and decision-making solutions. Developed a framework for business process compliance as a result of the gaps identified in a systematic literature review.

Fondazione Bruno Kessler (FBK), Trento, Italy**02/2010 – 04/2010**

Visiting Researcher to Dr. Angelo Susi – Performed a study on building privacy-compliant business processes and software system.

University of Ottawa, Ottawa, Canada**01/2005 – 08/2007**

Research Assistant to Dr. Daniel Amyot and Dr. Liam Peyton – Modified hospital business processes for accessing Personal Health Information to ensure they were legally compliant with Ontario privacy legislation.

TEACHING EXPERIENCE

Instructor, Texas Tech University, Lubbock, TX**Fall 2016 – Present**

Spring 2018: Software Engineering II (Undergraduate – TTU – CS4365)

Fall 2017: Computer Science Graduate Seminar (TTU – CS5120) – Graduate Seminar Organizer

Fall 2017: Engineering Privacy in Software Systems (Undergraduate elective and Graduate – TTU CS4331 & CS5332)

Spring 2017: Engineering Privacy in Software Systems (Graduate – TTU CS5332)

Fall 2016: Software Engineering I (Undergraduate – TTU – CS3365)

Spring, Summer and Fall 2017 & Spring 2018: Individual Studies in Computer Science (Undergraduate Elective – TTU – CS4000)

Instructor, Luxembourg Institute of Science and Technology, Luxembourg**November, 2015**

Tutorial together with Diana Marosin and Marc van Zee

Title: Business Process Compliance Analysis: A Graphical Representation with Tool Support

Instructor, 23rd IEEE Int. Requirements Engineering Conference (RE'15), Ottawa, Canada**August, 2015**

Tutorial together with Diana Marosin and Marc van Zee

Title: Business Process Compliance Analysis: A Graphical Representation with Tool Support

Guest Lecturer, Blekinge Institute of Technology (BTH), Karlskrona, Sweden**December 2014**

Course Title: Legal Requirements Engineering Course

Title: Legal- URN Framework - A Legal Compliance Management Framework

Guest Lecturer, Centre de Recherche Henri Tudor, Luxembourg	March 2014
<u>Course Title:</u> Requirements Engineering Course (Master's Level)	
<u>Title:</u> Introduction on URN and jUCMNav	
Instructor: 19th IEEE Int. Requirements Engineering Conference (RE'11), Trento, Italy	August, 2011
Tutorial together with Gunter Mussbacher, Alireza Pourshahid and Azalia Shamsaei	
<u>Title:</u> The User Requirements Notation (URN) for Business Process Modeling and Legal Compliance	
Teaching Assistant, University of Ottawa, Canada – School of Electrical Engineering and Computer Science	2008 - 2011
Winter 2011: Software Quality Assurance (SEG 3103)	
Fall 2010: Introduction to Computing (ITI1120)	
Fall 2010: Software Requirements Analysis (SEG 3101/3201)	
Fall 2009: Software Requirements Analysis (SEG 3101/3201)	
Fall 2008: Ingénierie des exigences (SEG 3501)	
Fall 2008: Introduction à l'informatique I (ITI 1620)	
Head Teaching Assistant, University of Ottawa, Ottawa, Canada – Telfer School of Management	2006 - 2011
Winters 2006 – 2011: Applied Statistical Methods in Business (ADM 2304) – 6 times	
Falls 2006 – 2010: Statistics for Management (ADM 2303) – 5 times	

CURRENT GRANT EFFORTS

PI: Privacy, Security and Legal Requirements Curriculum Development for Computer Science and Law Students
March 2018

NSF – HSI – Improving Undergraduate STEM Education: Hispanic-Serving Institutions, Co-PIs: Dr. Abdul Serwada, Department of Computer Science, Texas Tech University; Dr. Catherine Christopher, TTU School of Law, Texas Tech University – Under Development.

PI: SaTC: CORE: Small: Collaborative Research: Engineering Privacy and Security Engineering of Internet of Things
November 2017

NSF – Secure & Trustworthy Cyberspace (SaTC), Co-PI: Dr. Aaron Massey, UMBC, USA – Under Review.

PI: A Tool-Supported Approach for Privacy Consistency Analysis of Internet of Things
October 2017

Google Faculty Research Award – Under Review.

PI: CRII: SaTC: PReCIoT Framework - Cross-Domain Privacy Requirements Consistency Framework for the Internet of Things (IoT)
August 2017

NSF – Research Initiation Initiative (CRII) – Secure & Trustworthy Cyberspace – Declined.

PI: CPS: Small: Collaborative Research: Privacy and Security Requirements for the Internet of Things
March 2017

NSF – Cyber-Physical-Systems (CPS), Co-PI: Dr. Aaron Massey, UMBC, USA – Declined.

PI: Standard Grant - Free, Prior, and Informed Consent in the Information Age - Modeling and Securing Privacy in Internet of Things Devices
February 2017

NSF – Science, Tech & Society (STS), Co-PI: Dr. Manuel Wörsdörfer, Texas Tech University – Declined.

GRANTS, HONORS AND AWARDS

NSF Support Grant for Junior Researchers – CNS-1257011 – Schloss Dagstuhl – Dagstuhl Seminar 18171, “Normative Multi-Agent Systems”, 2,000 USD, 2017.

Start-up Package – Texas Tech University, USA, 258, 576 USD for 5 years, 2016 – 2021.

Visiting Researcher Support – Carnegie Mellon University, USA, 21,000 USD for 5 months, 2015.

Post-doctoral Marie Curie Grant – Fond Nationale de la Recherche de Luxembourg, 112,000 Euro for 2 years, 2014-2015.

Canada Graduate Scholarship (CGS-D) – NSERC, Canada, 70,000 CAD for 2 years, 2009-2011.

Michael Smiths Foreign Study Supplements Program – NSERC, Canada, 6,000 CAD for 3 months, 2010.

Ontario Graduate Scholarship – OGS – Canada, 15,000 CAD, 2011-2012.

University of Ottawa Excellence Scholarship – Canada, 94,000 CAD for 3 years, 2009-2012.

University of Ottawa Admission Scholarship – Canada, 60,000 CAD for 2 years, 2007-2009.

MCeTech Conference, Best Paper Award, 2007.

INVITED GRANT PROPOSAL REVIEWER

NSF Panel Reviewer, 2018.

The Center for Cyber Law & Policy, University of Haifa, Haifa, Israel, Summer 2017.

ORGANIZING AND PROGRAM COMMITTEE

Proceeding Co-Chair, The 26th IEEE International Requirements Engineering Conference (RE'18), Banff, Canada, 2018.

Organizing Co-Chair, The Artificial Intelligence and Natural Language Processing for Web Privacy Symposium, 2018.

Organizing Co-Chair, A panel on Big Data, Privacy and Ethics with Dr. Manuel Wörsdörfer and Dr. Peer Zumbansen, at Transnational Law Summit 2018, King's College London, UK, 2018.

Program Co-Chair, The 10th International Workshop on Requirements Engineering and Law (RELAW'17), Lisbon, Portugal, 2017.

Organizing Co-Chair, The 10th International i* (iStar) Workshop, Essen, Germany, 2017.

Program Co-Chair, The 9th International Workshop on Requirements Engineering and Law (RELAW'16), Beijing, China, 2016.

Program Co-Chair, The 8th International Workshop on Requirements Engineering and Law (RELAW'15), Ottawa, Canada, 2015.

Organizing Co-Chair, Posters, Demos and Exhibits Co-Chair - at the 23rd International Requirements Engineering Conference (RE'15), Ottawa, Canada, 2015.

Program Committee, The 26th IEEE International Requirements Engineering Conference (RE'18), Banff, Canada, 2018.

Program Committee, The 37th International Conference on Conceptual Modeling (ER), Xi'an, Shaanxi province, China, 2018.

Program Committee, Special Track on Internet of Things (IoT), at the 33rd Annual ACM Symposium on Applied Computing (SAC-2018), Pau, France, 2018.

Program Committee, Requirements Engineering Track, 11th Edition at the 33rd Annual ACM Symposium on Applied Computing (SAC-2018), Pau, France, 2018.

program committee, The 24th International Working Conference on Requirements Engineering: Foundation for Software Quality (REFSQ 2018), Utrecht, The Netherlands, 2018.

Program Committee, The 25th International Requirements Engineering Conference (RE'17), Lisbon, Portugal, 2017.

Program Committee, RENext! - The 25th International Requirements Engineering Conference, Lisbon, Portugal, 2017.

Program Committee, The 36th International Conference on Conceptual Modeling (ER), Valencia, Spain, 2017.

Program Committee, The 7th International Workshop on Requirements Patterns (RePa), Lisbon, Portugal, 2017.

Program Committee, The 4th International Workshop on Evolving Security and Privacy Requirements Engineering (ESPRE), Lisbon, Portugal, 2017.

Program Committee, The 10th Requirements Engineering Track, at the 32nd Annual ACM Symposium on Applied Computing (SAC-2017) Marrakech, Morocco, 2017.

Program Committee, RENext! - The 24th International Requirements Engineering Conference, Beijing, China, 2016.

Program Committee, The 35th International Conference on Conceptual Modeling (ER), Gifu, Japan, 2016.

Program Committee, The 18th International IEEE Conference on Business Informatics (CBI), Paris, France, 2016.

Program Committee, - The 21st International Conference on Exploring Modeling Methods in Systems Analysis and Design (EMMSAD), co-located at CAiSE, Ljubljana, Slovenia, 2016.

Program Committee, The 3rd International Workshop on Evolving Security and Privacy Requirements Engineering (ESPRE), Beijing, China, 2016.

Program Committee, The 9th International i* (iStar) Workshop, Beijing, China, 2016.

Program Committee, The 1st International Workshop on Requirements for Visualizations in Systems Engineering (ReVISE'16), Beijing, China 2016

Program Committee, The 23rd International Requirements Engineering Conference (RE15), Ottawa, Canada, 2015.

Program Committee, The 34th International Conference on Conceptual Modeling (ER), Stockholm, Sweden, 2015.

Program Committee, The 17th International IEEE Conference on Business Informatics (CBI), Lisbon, Portugal, 2015.

Program Committee, The 23rd European Conference on Information Systems (ECIS), MÜNster, Germany, 2015.

Program Committee, The 2nd International Workshop on Evolving Security and Privacy Requirements Engineering (ESPRE), Ottawa, Canada, 2015.

Program Committee, The 8th International i* (iStar) Workshop, Ottawa, Canada, 2015.

Program Committee, The 16th International IEEE Conference on Business Informatics (CBI), Geneva, Switzerland, 2014.

Program Committee, The 9th Mediterranean Conference on Information Systems (MCIS), Verona, Italy, 2014.

Program Committee, The 1st International Workshop on Evolving Security and Privacy Requirements Engineering (ESPRE), Stockholm, Sweden, 2014.

Program Committee, The 7th International Workshop on Requirements Engineering and Law (RELAW), Stockholm, Sweden, 2014.

Program Committee, The 7th International i* (iStar) Workshop, Thessaloniki, Greece, 2014.

Program Committee, The 8th TEE Workshop: Transformation & Engineering of Enterprises, Geneva, Switzerland, 2014.

Program Committee, TEE-8-CS - TEE-8 case studies, Geneva, Switzerland, 2014.

Program Committee, The 6th International Workshop on Requirements Engineering and Law (RELAW), Rio de Janeiro, Brasil, 2013.

Program Committee, The 5th International Workshop on Requirements Engineering and Law (RELAW), Chicago, USA, 2012.

INVITED REVIEW AND REFEREE PARTICIPATIONS

Reviewer, ACM Transactions on Software Engineering and Methodology (TOSEM), ACM, Since 2018.

Reviewer, Journal of Systems and Software, Elsevier (JSS), Since 2017.

Reviewer, Empirical Software Engineering Journal, Springer, Since 2016.

Reviewer, IEEE Software, IEEE Computing Society, Since 2016.

Reviewer, Software Quality Journal, Springer, Since 2015.

Reviewer, International Journal on Software Tools for Technology Transfer, Springer, 2014 – 2015.

Reviewer, Journal of Requirements Engineering (REJ), Springer, Since 2014.

Reviewer, International Conference on Requirements Engineering (RE), Since 2008.

Reviewer, International Conference on Advance Information Systems Engineering (CAiSE'07-CAiSE'15).

Reviewer, International Conference on Model Driven Engineering Language and System (MODELS'10-12).

Reviewer, International Workshop on Requirements Engineering and Law (RELAW'07- RELAW'14).

CONTRIBUTION TO STANDARDS

Developed GRL Analysis Algorithms of ITU-T, Recommendation Z.151 (10/12): User Requirements Notation (URN) - Language Definition, Geneva, Switzerland, approved Oct.2012, Co-editors: Daniel Amyot and Gunter Mussbacher.

BOOK CHAPTERS

1. Marosin, D. and **Ghanavati, S.**, Steering Transformations with Architecture Principles, In: H. A. Proper, R. Winter, S. Aier and S. de Kinderen (Eds), Architectural Coordination of Enterprise Transformation, Springer, 2017, To be appeared.
 2. Marosin, D. and **Ghanavati, S.**, Principle-based GRL, In: H. A. Proper, R. Winter, S. Aier and S. de Kinderen (Eds), Architectural Coordination of Enterprise Transformation, Springer, 2017, To be appeared.
 3. Pourshahid, A., Peyton, L., **Ghanavati, S.**, Amyot, D., Chen, P. and Weiss, M., Model-Based Validation of Business Processes. In: V. Shankararaman, J.L. Zhao and J.K. Lee (Eds), Business Enterprise, Process, and Technology Management: Models and Applications, Business Science Reference, IGI Global, USA, pp. 165-183, 2012. DOI: 10.4018/978-1-46660-249-6.
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REFEREED JOURNAL PUBLICATIONS

- J1. van Zee, M., Bex, F. and **Ghanavati, S.**, RationalGRL: A Framework for Argumentation and Goal Modeling, Springer Requirements Engineering Journal (REJ), 2017, Under Review.
 - J2. **Ghanavati, S.**, Siena, A., Amyot, D., Perini, A., Peyton, L. and Susi, A., Integrating Business Strategies with Requirement Models of Legal Compliance, International Journal of Electronic Business, Inderscience Publishers, Vol. 8, No. 3, pp 260-280, 2010. DOI: 10.1504/IJEB.2010.034171.
 - J3. Amyot, D., **Ghanavati, S.**, Horkoff, J., Mussbacher, G., Peyton, L. and Yu, E., Evaluating Goal Models within the Goal-oriented Requirement Language, International Journal of Intelligent Systems, John Wiley & Sons, Vol. 25, No. 8, pp 841-877, 2010. DOI: 10.1002/int.20433.
 - J4. Pourshahid, A., Chen, P., Amyot, D., Forster, A.J., **Ghanavati, S.**, Peyton, L. and Weiss, M., Business Process Management with the User Requirements Notation, Electronic Commerce Research, Springer, Vol. 9 No. 4, pp 269-316, 2009.
 - J5. Peyton, L., **Ghanavati, S.** and Amyot, D., Designing for Privacy Compliance and Performance Management in Health Care, Design Principles and Practices: An International Journal, Vol. 1, Number 3, Common Ground, 2007, 13-25.
-

REFEREED CONFERENCE, WORKSHOP AND DEMO PROCEEDINGS

- C1. Vloutis, V. and **Ghanavati, S.**, A Goal-oriented Modeling Framework for Security Analysis in Cloud, To be Submitted to the 26th IEEE International Requirements Engineering Conference, February 2018.
- C2. Rabinia, A. and **Ghanavati, S.**, Mapping Regulations to FOL Statements in Legal-GRL, To be Submitted to the 26th IEEE International Requirements Engineering Conference, February 2018.
- C3. **Ghanavati, S.**, Security and Privacy Requirements Engineering Approaches for the IoT – A Literature Study, To be Submitted to RENext! at the 26th IEEE International Requirements Engineering Conference, March 2018.
- C4. Shayegh, P. and **Ghanavati, S.**, Automated Approach to Improve IoT Privacy Policies, Submitted to 2018 IEEE Symposium on Security and Privacy (SP), 2018, Under Review.
- C5. Massey, A.K., Holtgreffe, E. and **Ghanavati, S.**, Modeling Regulatory Ambiguities for Requirements Analysis, In proceeding of the 36th International Conference on Conceptual Modeling (ER'17), Valencia, Spain, November 2017, (**Acceptance rate: 25%**).
- W1. Shayegh, P. and **Ghanavati, S.**, Toward an Approach to Privacy Notices in IoT, In Proceeding of the 4th International Workshop on Evolving Security & Privacy Requirements Engineering (ESPRES'17), Lisbon, Portugal, September 2017.
- W2. Rabinia, A. and **Ghanavati, S.**, FOL-based Approach for Improving Legal-GRL Modeling Framework - A Case for Requirements Engineering of Legal Regulations of Social Media, In Proceeding of the 10th International Requirements Engineering and Law Workshop (RELAW'17), Lisbon, Portugal, September 2017.

- W3.** **Ghanavati, S.**, van Zee, M. and Bex, F., Argumentation-based Methodology for Goal-oriented Requirements Language (GRL), In proceeding of the 10th International iStar Workshop (iStar'17), Essen, Germany, June 2017.
- W4.** Marosin, M., and **Ghanavati, S.**, Semi-formal Evaluation of Architecture Design Based on Architecture Principles, In proceeding of the 10th International iStar Workshop (iStar'17), Essen, Germany, June 2017.
- C6.** van Zee, M., Marosin, D., Bex, F. and **Ghanavati, S.**, RationalGRL: A Framework for Rationalizing Goal Models from Argument Graphs, In proceeding of the 35th International Conference on Conceptual Modeling (ER'16), Gifu, Japan, November 2016.
- D1.** van Zee, M., Marosin, D., Bex, F. and **Ghanavati, S.**, The RationalGRL toolset for Goal Models and Argument Diagrams, In proceeding of the 6th International Conference on Computational Models of Argument (COMMA'16) as a DEMO ABSTRACT, Extended Abstract, Potsdam, Germany, September 2016.
- C7.** Marosin, D., van Zee, M. and **Ghanavati, S.**, Formalizing and Modeling Enterprise Architecture (EA) Principles with Goal-oriented Requirements Language (GRL), In Proceedings of the 28th International Conference on Advanced Information System Engineering (CAiSE16), Slovenia, June 2016. **(Acceptance rate = 16%)**
- W5.** **Ghanavati, S.** and Breaux, T.D., Comparing and Analyzing Definitions in Multi-Jurisdictions, In the 8th IEEE International Workshop on Requirements Engineering and Law (RELAW'15), August 2015, Ottawa, Canada.
- W6.** Marosin, D. and **Ghanavati, S.**, Measuring and Managing the Design Restriction of Enterprise Architecture (EA) Principles on EA models, In the 8th IEEE International Workshop on Requirements Engineering and Law (RELAW'15), Ottawa, Canada, 2015.
- C8.** van Zee, M., Bex, F. and **Ghanavati, S.**, Rationalization of Goal Models in GRL using Formal Argumentation, In RENext! @ 23rd International IEEE Requirements Engineering Conference (RE'15), Ottawa, Canada, August 2015.
- W7.** Humphreys, L., Boella, G., Robaldo, L., Di Caro, L., Cupi, L., **Ghanavati, S.**, Muthuri, R. and Van der Torre, L., Classifying and Extracting Elements of Norms for Ontology Population using Semantic Role Labelling, In 2015 Workshop on Automated Detection, Extraction and Analysis of Semantic Information in Legal Texts in Conjunction to ICAIL'15, San Diego, US, 2015.
- W8.** **Ghanavati, S.** and Hulstijn, J., Impact of Legal Interpretation in Business Process Compliance, In TELERISE'15 Workshop, In ICSE'15 Workshop, Italy, 2015.
- C9.** van Zee, M. and **Ghanavati, S.**, Capturing Evidence and Rationales with Requirements Engineering and Argumentation-Based Techniques, The 26th BENELUX Conference ON Artificial Intelligence (BNAIC'14), Nijmegen, Netherlands, 2014.
- C10.** **Ghanavati, S.**, Ingolfo, S. and Siena, A., Exploring Legal Business Process Alternatives, 7th IFIP WG 8.1 working conference on the Practice of Enterprise Modelling (POEM'14), Manchester, UK, 2014.
- W9.** **Ghanavati, S.**, Muthuri, R., Rifaut, A., Humphreys, L. and Boella, G., The Role of Power in Legal Compliance, In the 7th Int. Workshop on Requirements Engineering and Law (RELAW), Karlskrona, Sweden, Extended Abstract, 2014.
- C11.** **Ghanavati, S.**, Humphreys, L., Boella, G., Di Caro, L., Robaldo, L. and van der Torre, L., Business Process Compliance with Multiple Regulations, In the proceeding of the 33rd International Conference on Conceptual Modeling (ER'14), USA, 2014.
- C12.** **Ghanavati, S.**, Amyot, D., Rifaut, A. and Dubois, E., Goal-Oriented Compliance with Multiple Regulations, In the 22nd IEEE International Requirements Engineering Conference (RE'14), Karlskrona, Sweden, 2014, (Acceptance rate = 26%).
- W10.** Marosin, D., **Ghanavati, S.** and van der Linden, D., A Principle-based Goal-oriented Requirements Language (GRL) for Enterprise Architecture, 7th International i* Workshop (iStar'14), Thessaloniki, Greece, In conjunction with CAiSE'14, 2014.
- C13.** Boella, G., Colombo Tosatto, S., **Ghanavati, S.**, Hulstijn, J., Humphreys, L., Muthuri, R., Rifaut, A. and van der Torre, L., Integrating Legal-URN and Eunomos: Towards a Comprehensive Compliance Management Solution, In the proceeding of Artificial Intelligence and the Complexity of Legal Systems (AICOL), 2014.
- W11.** **Ghanavati, S.**, Amyot, D. and Rifaut, A., Legal Goal-oriented Requirement Language (Legal GRL) for Modeling Regulations, Workshop on Modeling in Software Engineering @ICSE2014 (MiSE), Hyderabad, India, 2014.
- W12.** Rifaut, A. and **Ghanavati, S.**, Measurement-Oriented Comparison of Multiple Regulations with GRL, 5th Int. Workshop on Requirements Engineering and Law (RELAW), Chicago, USA, September 2012.

- W13. Ghanavati, S.,** Amyot, D. and Peyton, L., A Systematic Review of Goal-oriented Requirements Management Frameworks for Business Process Compliance, 4th Int. Workshop on Requirements Engineering and Law (RELAW), Trento, Italy, August 2011.
- W14.** Amyot, D., Mussbacher, G., **Ghanavati, S.,** and Kealey, J., GRL Modeling and Analysis with jUCMNav, 5th Int. i* Workshop, Trento, Italy, August 2011.
- W15. Ghanavati, S.,** Siena, A., Amyot, D., Susi, A. and Perini, A., Towards a Framework for Business Process Compliance. International Workshop on Goal-based Business Process Engineering (WGBP'10), Vitoria, ES, Brazil, October 2010.
- W16. Ghanavati, S.,** Siena, A., Amyot, D., Susi, A. and Perini, A., Making Business Processes Law-Compliant. First Workshop on Law Compliancy Issues in Organisational Systems and Strategies (iComply'10), Fiesole, Firenze, Italy, July 2010.
- C14. Ghanavati, S.,** Amyot, D. and Peyton, L., Compliance Analysis Based on a Goal-oriented Requirement Language Evaluation Methodology. 17th IEEE International Requirements Engineering Conference (RE'09), Atlanta, USA, September 2009. IEEE CS, 133-142. **(Acceptance rate: 21%)**.
- C15. Ghanavati, S.,** Siena, A., Perini, A., Amyot, D., Peyton, L. and Susi, A., A Legal Perspective on Business: Modeling the Impact of Law. In the 4th International MCE Tech Conference on eTechnologies, Canada, May. LNBP, Springer, 267-278, 2009.
- D2.** Mussbacher, G., **Ghanavati, S.** and Amyot, D., Modeling and Analysis of URN Goals and Scenarios with jUCMNav. Research demo at the 17th IEEE International Requirements Engineering Conference (RE'09), Atlanta, USA, September 2009. Short paper also published by IEEE CS.
- W17. Ghanavati, S.,** Amyot D. and Peyton, L., Comparative Analysis between Document-based and Model-based Compliance Management Approaches. First Int. Workshop on Requirements Engineering and Law (RELAW 2008), Barcelona, Spain, September. IEEE, 35-39, 2008.
- C16.** Pourshahid, A., Chen, P., Amyot, D., Forster, A.J., **Ghanavati, S.,** Peyton, L. and Weiss, M., Toward an integrated User Requirements Notation framework and tool for Business Process Management. 3rd Int. MCE Tech Conference on eTechnologies, Montréal, Canada, January 2008. IEEE Computer Society, 3-15. **(Best Paper Award)**.
- C17. Ghanavati, S.,** Amyot D. and Peyton, L., Towards a Framework for Tracking Legal Compliance in Healthcare. 19th Int. Conf. on Advanced Information Systems Engineering (CAiSE'07), Trondheim, Norway, June. LNCS 4495, Springer, 218-232, 2007, **(Acceptance rate: 13%)**.
- W18. Ghanavati, S.,** Amyot D. and Peyton, L., A Requirements Management Framework for Privacy Compliance. In the Proceeding of the 10th Workshop on Requirements Engineering (WER'07), Toronto, Canada, 149-159.

INVITED PAPERS AND THESES

1. **Ghanavati, S.,** Amyot, D., Peyton, L. and Mussbacher, G., A Compliance Framework for Business Processes Based on URN and DOORS. 2007 Telelogic User Group Conference, Atlanta, USA, October 2007.
2. **Ghanavati, S.,** Legal-URN framework for legal compliance of business processes, Ph.D. thesis, University of Ottawa, Canada, 2013.
3. **Ghanavati, S.,** A Compliance Framework for Business Processes Based on URN, MSc. thesis, University of Ottawa, Canada, 2007.

INVITED TALKS

1. **Multi-jurisdictional Privacy Compliance in IoT era**
Department of Computer Science, Texas Tech University, USA, November 2016.
2. **Multi-jurisdictional Legal Compliance,**
Department of Informatic, University of Hamburg, Germany, September 2015.
3. **Legal - URN Framework - A Method for Business Process Compliance,**
Centre of Security and Trust (SnT), Luxembourg, January 2015.

4. **Legal- URN Framework for Privacy Compliance**,
University of Toronto, Toronto, Canada, October 2014.
5. **Legal- URN Framework for Privacy Compliance**,
Normative Multi-Agent Systems: NorMAS 2014, Bertinoro, Italy, September 2014.
6. **Legal- URN Framework for Privacy Compliance**,
Bournemouth University, UK, May 2014.
7. **Legal- User Requirements Notation Framework for Business Process Compliance**,
Centre de Recherche Henri Tudor, Luxembourg, February 2014.
8. **Goal-oriented Legal Compliance: A Lightweight URN Profile**,
Fondazione Bruno Kessler (FBK), IRST - ICT, Software Engineering Unit, Italy, March 2010.

UNIVERSITY SERVICE

Faculty Search Committee – Spring 2018.

Graduate Admission Committee – Spring 2018.

Undergraduate Program Committee – Fall 2017 – Spring 2018.

Graduate Program Committee – Fall 2016 – Spring 2017.

ACADEMIC ADVISING

Amin Rabinia, PhD, Computer Science, Texas Tech, starting Fall 2017.

Parvaneh Shayegh, PhD, Computer Science, Texas Tech, starting Spring 2017.

Diana Marosin, PhD, Computer Science, Luxembourg Institute of Science and Technology, starting Spring 2014.

Jason P. Green, BSc. Computer Science, Texas Tech, starting Spring 2018.

Celina Maharjan, BSc. Computer Science, Texas Tech, Spring 2018.

Rajeev Kuikel, BSc. Computer Science, Texas Tech, Spring 2018.

Alex Schryer, BSc. Computer Science, Texas Tech, Spring 2018.

Jacob Opoku, BSc. Computer Science, Texas Tech, Spring 2017 – Spring 2018.

Vasilis Vloutis, BSc. Computer Science, Texas Tech, starting Summer 2017 – Spring 2018.

Bohyun Suh, BSc. Computer Science, Texas Tech, starting Fall 2017 – Spring 2018.

LEADERSHIP EXPERIENCE

VP of Finance - Computer Science Graduate Student Association (CSGSA) -2011

VP of Communication - Computer Science Graduate Association (CSGSA - IGADI) – 2009

PROFESSIONAL MEMBERSHIPS

Member of Institute for Electrical and Electronics Engineers (IEEE), since 2007.

Member of Association for Computing Machinery (ACM), since 2016.

Member of the IEEE Computer Society, since 2007.

Member of the ACM Special Interest Group on Software Engineering (SIGSOFT), since 2016.

Member of the ACM-W Group, since 2016.

Computer Skills

Programming Languages: Java, Python, Ruby, JavaScript, HTML, Bash, R, and MATLAB

Development Environments/platforms: Eclipse, NetBeans, Arduino

Requirements Analysis: SDLC, UML, and BPMN OCL, RUP, URN (UCM-GRL), Tropos, i* modeling, SecureTropos, and Rational Software Architect, Visio, jUCMNav, IBM DOORS tools.

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