

CURRICULUM VITAE

a) NAME:

INKPEN, Diana, Professor, tenured
Member of the Faculty of Graduate and Postdoctoral Studies: yes

b) DEGREES:

Ph.D., Computer Science, University of Toronto, Canada, October 2003
M.Sc., Computer Science and Engineering, Technical Univ. of Cluj-Napoca, Romania, July 1995
Dipl. Eng., Computer Science and Eng., Technical Univ. of Cluj-Napoca, Romania, July 1994

c) EMPLOYMENT HISTORY:

May 2012-present, Professor, School of Electrical Engineering and Computer Science (EECS),
University of Ottawa
May 2008-April 2012, Associate Professor, EECS, University of Ottawa
July 2003-April 2008, Assistant Professor, EECS, University of Ottawa
May-Aug. 2001, Sept.-Dec. 2002, Part-Time Lecturer, Computer Science, University of Toronto
Feb. 1996-July 1998, Junior Lecturer, Computer Science, Technical University of Cluj-Napoca
Sept. 1994-Feb. 1996 Researcher/Programmer, Software ITC S.A., Cluj-Napoca, Romania

d) ACADEMIC HONOURS:

Erasmus+ Visiting Scholar, Alexandru Ioan Cuza University of Iasi, Romania, June 2018
Visiting Professor, Guangdong University of Foreign Studies, China, June-July 2017
Visiting Scholar, Université Paul Sabatier, Toulouse, France, Oct-Nov 2012
Visiting Researcher, LIMMR, University de Montpellier, France, Sept-Oct 2012
Visiting Professor (honorific title), University of Wolverhampton, UK, Sept. 2010 - 2013
Erasmus Mundus Visiting Scholar, University of Wolverhampton, UK, Apr.-July 2009
Natural Sciences and Engineering Research Council (NSERC) Scholarship, 2000-2002
University of Toronto Connaught Scholarship, 1998-2002
European Training Foundation mobility at Free University of Amsterdam, Apr.-June 1998
European Training Foundation mobility at University of Limerick, Ireland, May 1996

e) SCHOLARLY AND PROFESSIONAL ACADEMIC ACTIVITIES: past 8 years only

- **Editor-in-chief**, Computational Intelligence journal, Willey-Blackwell, from July 1, 2018.
- **Associate Editor**, Natural Language Engineering, Cambridge University Press, from Dec 21, 2012.
- **Associate Editor**, Computational Intelligence journal, Willey-Blackwell, from Dec 2011-June 2018.
- Organizer, MAISoN 2021, International Workshop on Mining Actionable Insights from Social

Networks, Special Edition on Healthcare Social Analytics, at the 15th International AAAI Conference on Web and Social Media (ICWSM 2021), June 7, 2021.

- **Organizer**, the 4th IEEE International Conference on Data Science and Advanced Analytics (DSAA 2017), Special Session on Environmental and Geo-spatial Data Analytics (EnGeoData), Tokyo, Japan Oct. 2017
- **Organizer**, the 3rd IEEE International Conference on Data Science and Advanced Analytics (DSAA 2016), Special Session on Environmental and Geo-spatial Data Analytics (EnGeoData), Montreal, QC, Oct. 2016.
- **Area chair**, Lexical Semantics and Figurative Languages, for *SEM 2017, Vancouver, BC, July 2017.
- **Area chair**, Lexical Semantics and Ontologies, for COLING 2016, Osaka, Japan, Dec 2016.
- Tutorial Presenter, Applications of Social Media Text Analysis. AI 2016, Victoria, BC, May 31, 2016.
- Tutorial Presenter, Applications of Social Media Text Analysis. EMNLP 2015, Lisbon, Portugal, Sept 18, 2015.
- **Program committee co-chair**, the twenty-fifth Canadian Conference on Artificial Intelligence (AI 2012), Toronto, ON, Canada, May 28-30, 2012.
- **Organizer**, EACL 2014 Workshop on Semantic Analysis in Social Networks, Avignon, France, April 27, 2014.
- **Organizer**, NAACL 2013 Workshop on Language Analysis in Social Media, Atlanta, Georgia, June 13, 2013.

Invited talks at conferences and workshops:

- Invited speaker, “Signs of Mental Illness and Behavioural Issues from Online Communication”, Carleton University, Institute for Data Science, Distinguished Speaker Seminar Series, Mar 24, 2021
- Invited speaker, “Natural Language Processing for Book Recommender Systems”, TNT Lecture Series, UCLouvain, Belgium, Mar 4, 2021
- Invited speaker, “Détection de signes de maladie mentale et de troubles du comportement à partir de la communication en ligne”, Séminaires scientifiques de CRIM, Montreal, QC, Canada, Nov 21, 2019.
- Invited speaker, “Emotion Analysis for Detecting Signs of Mental Health Issues from Social Media”, KDD 2018 Workshop on Issues of Sentiment Discovery and Opinion Mining (WISDOM), London, UK, Aug 8, 2018.
- Keynote speaker, “Detecting Signs of Mental Illness from Social Media”, International Conference on Pattern Recognition and Artificial Intelligence (ICPRAI 2018), Montréal, QC, Canada, May 16, 2018.
- Invited speaker, “Applications en Analyse de textes des médias sociaux”, Colloque du Doctorat en Informatique Cognitive, UQAM, Montréal, QC, Canada, Jan 26, 2017
- Invited speaker, “Natural Language Processing for Social Media”, Florida Artificial Intelligence Research Society Conference (FLAIRS 2016), Applied Natural Language Processing track, May 19, 2016, Key Largo, FL, USA.
- Invited speaker, “Natural Language Processing: From Noisy Channel Models to Mining Social Media”, The Shannon Conference, University of Ottawa, April 15, 2016.
- Invited speaker, “Detection Locations from Twitter Messages”, Symposium for Big Data (SimBig 2015), Sept 4, 2015, Cuzco, Peru.
- Invited speaker, “Detection Locations from Twitter Messages”, the 26th Canadian Conference on Artificial Intelligence (AI 2015), June 4, 2015, Halifax, NS, Canada.
- Invited talk, "Automatic Classification of Opinions and Emotions in Texts", Senterritoire Workshop, Université de Montpellier, France, Sept 4, 2012.
- Invited talk, "Multilingual Word Similarity", Romanian Academy, Workshop exploratoriu: Tehnologii lingvistice in cercetarea romaneasca din tara si diaspora (LT4RD - Language Technologies for R-D),

Bucharest, Sept 27, 2012.

f) GRADUATE SUPERVISIONS:

Completed: 12 Ph.D., 45 M.Sc., 12 PDF In progress: 9 Ph.D., 1 M.Sc., 0 PDF

NAME OF STUDENTS, title of thesis or project, year of first registration and year of completion:

In progress:

1. Supervisor for Shahriar Shayesteh, Adversarial Learning, M.Sc., Jan 2021.
2. Supervisor for Dimo Angelov, Deep Learning Topic Vectors, Ph.D., Jan 2021.
3. Supervisor for Muhammad Hammad Fahim Siddiqui, Emotion Cause Detection for Online Child Safety, M.Sc., Jan 2021.
4. Co-supervisor for Zainab Abujasim, Ph.D., Interpretability of Word Embeddings, Carleton U., Jan 2020 (supervisor Dr. Yuhong Guo)
5. Co-supervisor for Yuan Wu, Ph.D., Domain Adaptation, Carleton U., Jan 2020 (supervisor Dr. Ahmed El-Roby)
6. Supervisor for Dooa Ibrahim, Ph.D. in E-business, Detecting Drug Dependencies, Sept 2017 (co-supervisor Dr. Hussein Al-Osman).
7. Supervisor for Qianjia Huang, Ph.D., Cyberbullying Detection, Jan 2017.
8. Supervisor for Ruba Skaik, Ph.D., Text Classification for Mental Health, Sept 2016.
9. Co-supervisor for Mohammadreza Seifollahi, Ph.D. in E-business, Detecting Innovation via Text Mining, Sept 2016 (supervisor Dr. Sandra Schillo).
10. Supervisor for Prasadith Buddhitha Kirinde Gamaarachchige, Ph.D. in E-business, Multi-Task Deep Learning for Detecting Mental Health Issues from Social Media, Sept 2015.

Completed:

11. Supervisor for Keerthana Nallamari Devanand, M.Sc. (intensive project), Recommendation System for Companies Collaboration Using Text Similarities, Jan-Apr 2021.
12. Supervisor for Yilin Bai, M.Sc. (intensive project), Generating Structured Queries from Natural Language, Jan-Apr 2021.
13. Supervisor for Shilpu Srivastava, M.Sc. (intensive project), Common-sense Validation and Explanation, Jan-Apr 2021.
14. Supervisor for Tasneema Khan Pathan, M.Sc. (intensive project in DTI), Therapist Chatbot, Jan-Apr 2020.
15. Supervisor for Stefania Pecore, PDF, Detecting Eating Disorders from Social Media, June 2018-Feb 2021.
16. Supervisor for Arya Rahgozar, PDF, Chatbots for the Tourism Industry, June 2020-Jan 2021.
17. Supervisor for Diana Lucaci, M.Sc., Explainable Deep Learning Text Classification, Jan 2019-Dec 2020.
18. Supervisor for Cheng Duan, M.Sc., Imbalanced Data Classification with the K-Closest Resemblance Classifier for Remote Sensing and Social Media Texts, Sept 2018-Oct 2020.
19. Supervisor for Dwarak Govind Parthiban, M.Sc., On the Softmax Bottleneck of Word-Level Recurrent Language Models, Sept 2017-Nov 2020 (co-supervisors Dr. Yongyi Mao and Harry Guo).
20. Supervisor for Weizhao Xin, M.Sc., Multi-Task Deep Learning for Emotion Detection, Sept 2018-

July 2020.

21. Supervisor for Arya Rahgozar, Ph.D. in E-business, Classification of Persian Poems, Sept 2015-May 2020.
22. Supervisor for Tianyu Jiang, M.Sc. (intensive project), Domain-specific Terminology Extraction with LSTM and CRF, Jan-Apr 2020.
23. Supervisor for Deepshi Mediratta, M.Sc. (intensive project), Movie Recommendation System Using MovieLens Dataset, Jan-Apr 2020.
24. Supervisor for Raj Kumar Endla, M.Sc. (intensive project), Automatic Summarization of Tweets for Topic Discovery, Jan-Apr 2020.
25. Supervisor for Sakshi Gupta M.Sc. (intensive project), Public Sector Auditing in the Canadian Federal Government: Is Tone Part of the Message?, Jan-Apr 2020.
26. Supervisor for Fateme Ghadami, PDF, Intrusion Detection, June 2018-Feb 2020.
27. Supervisor for Nikhil Oswal, M.Sc. (intensive project), Identifying and Categorizing Offensive Language in Social Media, Sep-Dec 2019.
28. Supervisor for Mert Metin, M.Sc., User Location Detection in Social Media, Sept 2016 – June 2019 (co-supervisor Dr. Xiaodan Zhu).
29. Supervisor for Saman Daneshvar, M.Sc., Personality Modelling in Social Media, Sept 2016-Aug 2019.
30. Supervisor for Haifa Alharthi, Ph.D., Social Media Text-Based User Profiling, Jan 2015-May 2019.
31. Co-supervisor for Ehsan Amjadian, Semantic Bridging, Sept 2013-Jan 2019 (supervisor Dr. Raj Singh, Institute for Cognitive Science, Carleton University).
32. Supervisor for Ahmed Hussein Orabi, PDF, Algorithm Design and Model Optimization for Behavioral Problem Detection, Sept 2017-Feb 2019.
33. Supervisor for Mahmoud Hussein Orabi, PDF, System Architecture for Scalable Artificial Intelligence Software, Sept 2017-Feb 2019.
34. Supervisor for Romualdo Alvez Pereira, PDF, Text Visualization and Knowledge Discovery, Apr 2016-Sept 2018.
35. Co-supervisor for Hanqing Zhou, M.Sc., Detecting Outliers in Linked Data, May 2016-Mar 2018 (supervisor Dr. Amal Zouaq).
36. Co-Supervisor for Vaibkhav Kesarwani, M.Sc., Poetry Graphs, Jan 2016-Feb 2018 (supervisor Dr. Chris Tanasescu).
37. Supervisor for Ali Dehghan, M.Sc. (intensive project), Postal Delivery Time Window Prediction, Sept-Dec 2017.
38. Supervisor for Chaoping Lin, M.Sc. (intensive project), Detecting Rumors and Fake News, Sept-Dec 2017.
39. Co-supervisor for Vidya David, M.Sc, in Cognitive Science at Carleton University, Computational Analysis of Personality and Emotion in Semi-Structured Interviews, Sept 2016-July 2017 (supervisor: Dr. John Logan).
40. Co-supervisor for Parinaz Sobhani, PhD, Stance and Argument Classification, Jan 2014-June 2017 (supervisor Dr. Stan Matwin).
41. Supervisor for Zunaira Jamil, M.Sc., Social Media Emotion Detection, Jan 2016-Apr 2017.
42. Co-supervisor for Tarundeep Singh, M.Sc. (intensive project), Employee Data Scrapping and Gender Classification, Jan-Apr 2016 (co-supervisor: Dr. Sandra Schillo).
43. Co-supervisor for Surya Vijjapuu, M.Sc. (intensive project), Web Scraping Based Innovation Identification for Companies, Jan-Apr 2016 (co-supervisor: Dr. Sandra Schillo).
44. Supervisor for Mohamed Mouine, PDF, Semantic Correlations, Sept 2014-Feb 2017.
45. Co-supervisor for Muhammad Tareen, M.Sc. (intensive project at Carleton University), Semi-

- Supervised Learning for Social Media Text, Sept-Dec 2016 (supervisor: Dr. Tony White).
46. Co-supervisor for Alex Plachkov, Information Extraction from SAR Reports, Sept 2013-Oct 2016 (supervisor Dr. Voicu Groza, Dr. Emil Petriu, Dr. Rami Abielmona)
 47. Supervisor for Varada Kolhatkar, PDF, Named Entity Extraction from Medical Texts, Oct 2015-Aug 2016.
 48. Supervisor for Martin Scaiano, Ph.D., Automatic Extraction of Knowledge from Dictionary Definitions, Jan. 2009-May 2016.
 49. Supervisor for Sourav Dindal, M.Sc. (intensive project), Monitoring Tweets for Signs of Mental Illness, Jan-Apr 2016.
 50. Supervisor for Borui Shen, M.Sc. (intensive project), Spoken Dialog System for Robots, Jan-Apr 2016.
 51. Co-supervisor for Dingwen Xiao, M.Sc. (intensive project), MyAnnotation: An Error Annotation Tool for Language Teachers, Jan-Apr 2016. (co-supervisors Dr. Tony White and Dr. Marie-Josée Hamel).
 52. Co-supervisor for Diman Ghazi, Ph.D., Analysis of Emotion in Texts, Jan 2009-Jan 2016 (co-supervisor Dr. Stan Szpakowicz).
 53. Supervisor for Colette Joubarne, MSc, Phoneme-to-Grapheme Transcription for French, Sept 2010-Aug 2015.
 54. Supervisor for Hamid Poursepanj, M.Sc., Analysis of Medical Tweets, Jan 2013 – May 2015 (co-supervisor Dr. Marina Sokolova, Faculty of Medicine).
 55. Supervisor for Rajiv Karki, M.Sc. (intensive project), LDA Topics for Information Retrieval, Sept 2014 - May 2014.
 56. Supervisor for David Carter, M.Sc., Extracting Aspect-Specific Opinion Structure from Product Reviews, Jan 2012-Mar 2015.
 57. Supervisor for Falah Hassan Al-akashi, Ph.D., Distributed Information Retrieval, Jan 2009-Oct 2014.
 58. Supervisor for Ji Liu, M.Sc. in E-business, Content-based Locations Detection in Twitter, May 2013 - Nov 2014.
 59. Supervisor for Josh Weissbock, MSc, Forecasting the Outcome of Hockey Games, Sept 2012-Aug 2014.
 60. Supervisor for Amir Razavi, PDF, Topic Analysis and Trend Summarization in Enterprise Social Networks, May 2012-Apr 2013.
 61. Supervisor for Chris Fournier, MSc, Evaluating Text Segmentation, Sept 2010 - Mar 2013.
 62. Supervisor for Anis Noor Ali, M.Sc. (intensive project), Automatic Terminology Extraction, Jan-Apr 2013.
 63. Supervisor for Tanveer Ali, M.Sc. (intensive project), Opinion Analysis in Medical Forums, Jan-Apr 2013 (co-supervisor Dr. Marina Sokolova, Faculty of Medicine).
 64. Supervisor for Oana Frunza, PDF, Automatic Extraction of To-Do Items from Notes, June-Dec., 2012.
 65. Co-supervisor for Iustina Ilisei, Ph.D., Translation Universals, University of Wolverhampton, UK, Sept 2008- Dec 2012 (supervisor Dr. Ruslan Mitkov and co-supervisor Dr. Gloria Corpas Pastor).
 66. Supervisor for Oana Frunza, Ph.D., Information Extraction from Medical Text, Jan. 2007- May 2012.
 67. Supervisor for Fazel Keshtkar, Ph.D., Analysis and Generation of Emotion in Text, Sept 2006-July 2011.
 68. Supervisor for Soumaya Chaffar, PDF, Generating Text with Emotions and Personality, May 2010-July 2011.
 69. Co-supervisor for Peyman Nojournian, Ph.D. in Linguistics, Morphology and Disambiguation for Persian Language, Feb. 2006-Aug. 2011 (supervisor Dr. Paul Hirschbühler).
 70. Supervisor for Aminul Islam, Ph.D., Unsupervised Methods for Text Correction using Google Ngrams, Sept. 2006-May 2011.

71. Supervisor for Fadi Abu-Sheikha, M.Sc., Analysis and Generation of Formal and Informal Text, Sept 2008-Sept 2010.
72. Supervisor for Maria Fernanda Caropreso, PDF, Natural Language Generation for Games, Sept 2008-Dec 2009.
73. Supervisor for Muath Alzghool, Ph.D., Cross-Language Information Retrieval, Sept. 2004-Dec 2009.
74. Supervisor for Martin Scaiano, M.Sc., Automatic Frame Extraction from Sentences, Jan 2007-Jan 2009.
75. Supervisor for Darren Kipp, M.Sc., Semantic Knowledge for Multi-Document Summarization, Jan. 2005-Dec 2008 (co-supervisor Dr. Stan Szpakowicz).
76. Supervisor for Aurel Constantinescu, MSc. with intensive project, Page Ranking Algorithms for Citation Analysis, Sept. 2006-May 2007.
77. Supervisor for Md. Aminul Islam, M.Sc., Semantic Similarity in Database Schemas, Sept. 2004-June 2006 (co-supervisor Dr. Iluju Kiringa).
78. Supervisor for Oana Frunza, M.Sc., French and English Cognates and False Friends with Applications to Language Learning, Sept. 2004-Sept 2006.
79. Co-supervisor for Isabela Pasca, M.Sc., Neural Networks, Jan. 2004-Dec.2006 (supervisor Dr. Emil Petriu).

Supervisor for 9 UROP undergraduate projects, University of Ottawa, 2012-2019 (Ashish Darji 2012, Yusi Fan 2012, Nada Ashraf Radhaf Mohsen 2013, Sean Billings 2013, Blair Robert Drummond 2014, Bryan Paget 2015, Gabriel Tapuc 2016, Felix Gothier, 2017, Christine Bui, 2017).

Supervisor of 30+ undergraduate Honours Projects, University of Ottawa, 2004-2021.

Thesis committee member for 30+ M.Sc. students and 30+ Ph.D. students (2004-2021).

External examiner for a PhD student, Concordia University, Feb 2013.

External examiner for a PhD student, University of Windsor, Mar 2013.

External examiner for a PhD student, Concordia University, Apr 2009.

External examiner for a PhD student, University of Windsor, Sept 2010.

External examiner for a PhD student, Université de Montreal, Mar 2011.

External examiner for a PhD student, University of Alberta, Sept 2015.

External examiner for a PhD student, Syracuse University, Jan 2016.

External examiner for a MSc student, Ecole Polytechnique, Montreal, Apr 2016.

External examiner for a PhD student, Dalhousie University, Apr 2017.

External examiner for a PhD student, University of Eastern Finland, Apr 2017.

External examiner for a PhD student, York University, Toronto, Mar 2018.

External examiner for a PhD student, University of Alberta, July 2018.

External examiner for a PhD student, Dalhousie University, July 2019.

External examiner for a PhD student, Universite de Montpellier, Sept 2020.

External examiner for a PhD student, Lakehead University, Nov 2020.

External examiner for a PhD student, York University, Toronto, Nov 2020.

External examiner for a PhD student, University of Windsor, Dec 2020.

External examiner for a PhD student, University of New Brunswick, Apr 2021.

g) GRADUATE COURSES:

CSI 5386 Natural Language Processing, Winter 2021, Winter 2020, Winter 2019, Fall 2017, Winter 2016,

Winter 2015, Winter 2014

CSI5800: Topics in AI: Statistical Natural Language Processing, Fall 2004, Fall 2005, Winter 2007, Winter 2008, Winter 2009, Winter 2010, Winter 2011, Winter 2012

h) EXTERNAL RESEARCH FUNDING: (past 8 years only)

Year	Source	Type*	Amount per year	Purpose**	Title of Project
2020-2022	NSERC CRD / SafeToNet	C,O	\$130,000	Research	Multi-modal and Multi-lingual Child Safety Application
2020-2021	MITACS / Sprevel Inc.	C	\$48,000	Research	Intelligent Chatbot Development for the Tourism Industry
2018-2023	NSERC Discovery	C	\$34,000	Research	Learning from Social Media Texts
2017-2019	NSERC CRD / OCE / VISR	C, O	\$147,140	Research	Social Media Text Mining for Detecting Behavioral and Psychological Conditions
2017-2018	NSERC Discovery	C	\$23,000	Research	Learning from Social Media Texts
2015-2018	NSERC Strategic	C	\$193,800 (\$96,900)	Research	Social Web Mining and Sentiment Analysis for Mental Illness Detection
2016-2018	SSHRC IDG (PI: Sandra Schillo)	C	\$33,500 (\$15,000)	Research	New Innovation Indicators – Integrating Survey Methodology with Web-Based Data Analytics
2015	NSERC Engage (Predikat Inc.)	C	\$25,000	Research	Predictive Models for Customer Attrition
2013-2015	SSHRC IDG (PI: Farahnaz Faez)	C	\$20,000 (15,000)	Research	Automatic Terminology Extraction
2014-2016	SSHRC IDG (PI: C.Tanasescu)	C	\$27,040 (13,520)	Research	Poetry Computational Graphs
2012-2017	NSERC Discovery	C	\$17,000	Research	Natural Language Analysis and Generation
2014-2015	NSERC Engage and Engage+ (Koneka Inc)	C	\$25,000	Research	Semantic Correlation Between Documents and Taxonomies
2014	NSERC Engage (OneStopR&D)	C	\$25,000	Research	Specialized Search Engine
2013-2014	NSERC Engage (NLP Tech.)	C	\$25,000	Research	Content-based Location Detection from Social Media Messages
2013	NSERC Engage (Larus Co.)	C	\$25,000	Research	Automatic Risk Mining from Textual Search-and-Rescue Operator Reports
2012	NSERC Engage (Tindr.co)	C	\$25,000	Research	Automatic Extraction of TO DO Items from Notes
2014 2012	OCE TSP (BI Solutions)	O	\$66,000	Research	Topic Analysis and Trend Summarization in Enterprise Social Networks

**Type: C-Granting councils; G-Government; F-Foundations; O-Other*

*** Purpose: research, travel, publication, etc.*

Note: For joint grants, the total amount is listed, followed by my share in brackets.

i) INTERNAL RESEARCH FUNDING: (past 8 years only)

j) PUBLICATIONS:

1) Life-time summary (count) according to the following categories:

- Books	4
- Edited books	1
- Edited proceedings and journal issues	8
- <u>Refereed</u> chapters in books	10
- Papers in <u>refereed</u> journals	37
- Papers in <u>refereed</u> conference and workshop proceedings.	132
- Non-refereed publications.....	4

2) Details (past 8 years only):

Books:

1. Anna Atefeh Farzindar and **Diana Inkpen**, Natural Language Processing for Social Media, Third Edition, Synthesis Lectures on Human Language Technologies Series, Morgan and Claypool Publishers, Apr 2020 (219 pages).
2. Atefeh Farzindar and **Diana Inkpen**, Natural Language Processing for Social Media, Second Edition, Synthesis Lectures on Human Language Technologies Series, Morgan and Claypool Publishers, Dec 2017 (175 pages).
3. Atefeh Farzindar and **Diana Inkpen**, Natural Language Processing for Social Media, Synthesis Lectures on Human Language Technologies Series, Morgan and Claypool Publishers, Aug 2015 (146 pages).

Edited Books:

1. Leila Kosseim and **Diana Inkpen** (eds.) Advances in Artificial Intelligence 25nd Canadian Conference on Artificial Intelligence (AI 2012) Toronto, Canada, May 28-30, 2012, Proceedings, Series Lecture Notes in Computer Science, Subseries: Lecture Notes in Artificial Intelligence, Springer, Vol. 7310, 2012.

Edited proceedings and journal issues:

1. **Diana Inkpen**, Mathieu Roche, and Maguelonne Teisseire (eds.) International Journal of Data Science and Analytics, 5(2-3), Special Issue on Environmental and Geospatial Data Analytics, Springer, 2018.
2. Atefeh Farzindar, **Diana Inkpen**, Michael Gamon and Meenakshi Nagarajan (eds.) Proceedings of the EACL 2014 Workshop on Language Analysis in Social Media, April 27, 2014, Gothenburg, Sweden.

3. Cristian Danescu-Niculescu-Mizil, Michael Gamon, Atefeh Farzindar, **Diana Inkpen** and Meenakshi Nagarajan (eds.) Proceedings of the NAACL 2013 Workshop on Language Analysis in Social Media, June 13, 2013, Atlanta, GA.
4. **Diana Inkpen** and Carlo Strapparava (eds.) Computational Intelligence, Special Issue on Analysis of Emotion in Text, Willey-Blackwell, 2013.
5. Atefeh Farzindar and **Diana Inkpen** (eds.) Proceedings of the EACL 2012 Workshop on Semantic Analysis in Social Media, April 23, 2012, Avignon, France.

Refereed Chapters in Books:

1. Atefeh (Anna) Farzindar and **Diana Inkpen**. Enhancing Healthcare Decision-Making with Data-Driven Methods and Technology. In Transforming Healthcare with Big Data and AI (Mingbo Gong, Anna Farzindar, and Alex Liu, Eds.), IAP, 2020.
2. **Diana Inkpen**. Text Mining in Social Media for Security Threats, in Recent Advances in Computational Intelligence in Defense and Security, Springer, 2016.
3. **Diana Inkpen** and Colette Joubarne, “Multilingual Word Similarity”. LT4RD Papers. Romanian Academy Publishing House, 2013.
4. Oana Frunza and **Diana Inkpen**, “Natural Language Processing and Machine Learning Techniques Help Achieve a Better Medical Practice”, in R. Magdalena, E. Soria, J. Guerrero, J. Gómez-Sanchis and A.J. Serrano (eds.), *Medical Applications of Intelligent Data Analysis: Research advancements*, IGI Global, pp. 237-254, 2012.

Papers in Refereed Journals:

1. Ruba Skaik and Diana Inkpen. Using Social Media for Mental Health Surveillance: A Review. ACM Computing Surveys (CSUR) 53(6):1-31, ACM, Dec. 2021, DOI: <https://doi.org/10.1145/3422824>
2. Chris Tanasescu (Margento), Diana Inkpen, Vaibhav Kesarwani, and Prasadith Kirinde Gamaarachchige. A-poetic Technology. #GraphPoem and the Social Function of Computational Performance. DH Benelux journal, article 39, 2020.
3. David Van Bruwaene, Qianjia Huang and **Diana Inkpen**. A multi-platform dataset for detecting cyberbullying in social media. Language Resources and Evaluation, Springer, 54(4):851-874, 2020.
4. Ehsan Amjadian, **Diana Inkpen**, T. Sima Paribakht and Farahnaz Faez. Distributed specificity for automatic terminology extraction. Terminology 24(1):23-40, Special issue on Computational terminology and filtering of terminological information, 2018.
5. **Diana Inkpen**, Ji Liu, Atefeh Farzindar, Farzaneh Kazemi, and Diman Ghazi. Location Detection and Disambiguation from Twitter Messages. Journal of Intelligent Information Systems, Springer, 49:237–253, DOI 10.1007/s10844-017-0458-3, 2017.
6. Haifa Alharthi, **Diana Inkpen**, and Stan Szpakowicz. A Survey of Book Recommender Systems. Journal of Intelligent Information Systems, Springer, 51(1):139-160, 2018.
7. Marie-Josée Hamel, **Diana Inkpen**, Nikolay Slavkov, and Dingwen Xiao. MyAnnotator: A Tool for Technology-Mediated Written Corrective Feedback. Traitement Automatique des Langues (TAL) special issue on NLP for learning and teaching, 57(3):119-142, 2017.
8. Prasadith Buddhitha and Diana Inkpen. Topic-Based Sentiment Analysis. In Communications in Computer and Information Science (CCIS series, volume 656), Springer, 2016, 95-107 (extended version of the SimBig 2015 paper).

9. Mohamed Mouine, **Diana Inkpen**, Pierre-Olivier Charlebois and Tri Ho. Identifying multiple topics in texts, *International Journal of Computational Linguistics and Application*, 7(2):29-44, Alexander Gelbuch (ed.), Special issue CICLing of 2016.
10. **Diana Inkpen**, T.Sima Paribakht, Farahnaz Faez and Ehsan Amjadian. Term Evaluator: A Tool for Terminology Annotation and Evaluation, *International Journal of Computational Linguistics and Application*, 7(2):145-165, Alexander Gelbuch (ed.), Special issue of CICLing 2016.
11. Diman Ghazi, **Diana Inkpen**, and Stan Szpakowicz. Prior and Contextual Emotion of Words in Sentential Context, *Computer Speech & Language* (Elsevier), 28 (1): 76–92, 2014. **(IF 1.812)**
12. Fazel Keshtkar and **Diana Inkpen**. A Bootstrapping Method for Extracting Paraphrases of Emotion Expressions from Texts. *Computational Intelligence* (Willey-Blackwell), 29 (3): 417-435, 2013. **(IF 0.87)**
13. Fadi Abu Sheihka and **Diana Inkpen**. Learning to Classify Documents According to Formal and Informal Style. *Linguistic Issues in Language Technology* (CSLI Publications, Stanford University), 8: 1-29, 2012.
14. Doina Tatar, **Diana Inkpen**, and Gabriela Czibula, “Text Segmentation Using Roget-based Lexical Chains. *Computing and Informatics*, 32: 1001-1018, 2013. **(IF 0.319)**
15. Maria Fernanda Caropreso, **Diana Inkpen**, Shahzad Khan, and Fazel Keshtkar. Template Authoring Environment for the Automatic Generation of Narrative Content”. *Journal of Interactive Learning Research* (AAACE Publication), 23(3), 1-23, 2012.
16. Fazel Keshtkar and **Diana Inkpen**, A hierarchical approach to mood classification in blogs. *Natural Language Engineering* (Cambridge University Press), 18(1):61-81, 2012. **(IF 0.463)**

Papers in Refereed Conference and Workshop Proceedings

1. Yuan Wu, **Diana Inkpen** and Ahmed El-Roby. Mixup-Regularized Adversarial Networks for Multi-Domain Text Classification. In proceedings of the IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2021), Toronto, ON, June 2021.
2. Yuan Wu, **Diana Inkpen** and Ahmed El-Roby. Conditional Adversarial Networks for Multi-Domain Text Classification. In the Second Workshop on Domain Adaptation for NLP at EACL 2021, Kyiv, Ukraine, April 2021 **(best paper award)**.
3. Ruba Skaik and **Diana Inkpen**. Using Twitter Social Media for Depression Detection in the Canadian Population. In Proceedings of the 3rd Artificial Intelligence and Cloud Computing Conference (AICCC 2020). ACM, Kyoto, Japan, Dec. 2021.
4. Ruba Skaik and **Diana Inkpen**. Suicide Ideation Estimators within Canadian Provinces using Machine Learning Tools on Social Media Text. In Proceedings of the 13th International Conference on Machine Learning and Computing (ICMLC 2021). ACM, Adelaide, Australia, Dec. 2021.
5. Intisar Almuslim, **Diana Inkpen**. Document Level Embeddings for Identifying Similar Legal Cases and Laws. In Working Notes of FIRE 2020 - Forum for Information Retrieval Evaluation, Hyderabad, India, 2020. Volume 2826 of CEUR Workshop Proceedings, pages 42-48, CEUR-WS.org, Dec. 2020.
6. Yuan Wu, Diana Inkpen and Ahmed El-Roby. Dual Mixup Regularized Learning for Adversarial Domain Adaptation. In European Conference on Computer Vision (ECCV 2020), Springer, Glasgow, UK, Aug 2020, pp. 540-555.
7. Nabil Belacel, Cheng Duan and **Diana Inkpen**. The K-Closest Resemblance Classifier for remote sensing data sets. In Proceedings of the 33th Canadian Conference on Artificial Intelligence (AI 2020), Ottawa, ON, Canada, May 2020.
8. Weizhao Xin and **Diana Inkpen**. [CL-Aff Shared Task] Detecting Disclosure and Support via Deep Multi-Task Learning. In Proceedings of the AAAI-20 Workshop on Affective Content Analysis, New

York, NY, USA, Feb 2020. (Best System Paper)

9. Prasadith Kirinde Gamaarachchige and **Diana Inkpen**. Multi-Task, Multi-Channel, Multi-Input Learning for Mental Illness Detection using Social Media Text. In Proceedings of the Tenth International Workshop on Health Text Mining and Information Analysis (LOUHI 2019), EMNLP 2019, ACL, pp. 54-64, Hong Kong, Nov 2019.
10. Haifa Alharthi and **Diana Inkpen**. Study of Linguistic Features Incorporated in a Literary Book Recommender System. In Proceedings of the 34th ACM/SIGAPP Symposium on Applied Computing (SAC 2019), Limassol, Cyprus, April 2019.
11. Weizhao Xin and **Diana Inkpen**. [CL-Aff Shared Task] Happiness Ingredients Detection using Multi-Task Deep Learning. In Proceedings of the AAAI-19 Workshop on Affective Content Analysis, Honolulu, Hawaii, USA, Jan 2019.
12. Haifa Alharthi, **Diana Inkpen**, and Stan Szpakowicz. Authorship Identification for Literary Book Recommendations. In Proceedings of the 27th International Conference on Computational Linguistics, ACL, pp. 390-400, Santa Fe, NM, USA, 2018.
13. Ahmed Hussein Orabi, Mahmoud Hussein Orabi, Qianjia Huang, **Diana Inkpen** and David Van Bruwaene. Cyber-aggression Detection using Cross Segment-and-Concatenate Multi-Task Learning from Text. In Proceedings of the First Workshop on Trolling, Aggression and Cyberbullying (TRAC-1), COLING 2018, pp.159-165, Santa Fe, NM, USA, 2018.
14. Qianjia Huang, **Diana Inkpen**, Jianhong Zhang and David Van Bruwaene. Cyberbullying Intervention Based on Convolutional Neural Networks. In Proceedings of the First Workshop on Trolling, Aggression and Cyberbullying (TRAC-1), COLING 2018, Santa Fe, NM, USA, 2018, pp.42-51.
15. Ahmed Hussein Orabi, Prasadith Buddhitha, Mahmoud Hussein Orabi, and **Diana Inkpen**. Deep Learning for Depression Detection of Twitter Users. In Proceedings of the Computational Linguistics and Clinical Psychology Workshop CLPsych 2018 at NAACL 2018, New Orleans, LA, USA, June 2018.
16. Ahmed Hussein Orabi, Mahmoud Hussein Orabi, and **Diana Inkpen**. uOttawa at SemEval-2018 Task 1: Self-Attentive Hybrid GRU-Based Network. In Proceedings of SemEval 2018 at NAACL 2018, New Orleans, LA, USA, June 2018.
17. Chris Tanasescu, Vaibhav Kesarwani, and Diana Inkpen. Metaphor Detection by Deep Learning and the Place of Poetic Metaphor in Digital Humanities. In Proceedings of Florida Artificial Intelligence Research Society Conference (FLAIRS 2018), Melbourne, FL, May 2018.
18. Hanqing Zhou, Amal Zouaq, and **Diana Inkpen**. DBpedia Entity Type Detection using Entity Embeddings and N-Gram Models. In Proceedings of the International Conference on Knowledge Engineering and Semantic Web (KESW 2017), Szczecin, Poland, Nov 2017.
19. Qian Chen, Xiaodan Zhu, Zhen-Hua Ling, Si Wei, Hui Jiang, and **Diana Inkpen**. Recurrent Neural Network-Based Sentence Encoder with Gated Attention for Natural Language Inference. In Proceedings of the 2nd Workshop on Evaluating Vector Space Representations for NLP, Sept. 2017, EMNLP 2017 Copenhagen, Denmark, pp.36-40.
20. Haifa Alharthi, **Diana Inkpen** and Stan Szpakowicz. Unsupervised Topic Modelling in a Book Recommender System for New Users. In Proceedings of the 2017 SIGIR Workshop on eCommerce, Tokyo, Japan, Aug 2017.
21. Qian Chen, Xiaodan Zhu, Zhen-Hua Ling, Si Wei, Hui Jiang, and **Diana Inkpen**. Enhanced LSTM for Natural Language Inference. In Proceedings of the 55th Annual Meeting of the Association for Computational Linguistics (Vol 1: Long Papers), July, 2017, Vancouver, Canada, pp.1657-1668.
22. Zunaira Jamil, **Diana Inkpen**, Prasadith Buddhitha, and Kenton White. Monitoring Tweets for Depression to Detect At-risk Users. In Proceedings of the Computational Linguistics and Clinical Psychology Workshop (CLPsych 2017), ACL 2017, Vancouver BC, Canada, August 2017, pp. 32-40.

23. Vaibhav Kesarwani, **Diana Inkpen**, Stan Szpakowicz, and Chris Tanasescu. Metaphor Detection in a Poetry Corpus. In Proceedings of the Joint SIGHUM Workshop on Computational Linguistics for Cultural Heritage, Social Sciences, Humanities and Literature (LaTeCH-CLfL 2017), ACL 2017, Vancouver BC, Canada, August 2017, pp. 1-9.
24. Romualdo Alves Pereira Jr. and **Diana Inkpen**. Using Cognitive Computing to Get Insights on Personality Traits from Twitter Messages. In Proceedings of the 30th Canadian Conference on Artificial Intelligence (AI 2017), Edmonton, AB, Canada, May 2017, pp. 279-283.
25. Parinaz Sobhani, Xiaodan Zhu, and **Diana Inkpen**. A Dataset for Multi-target Stance Detection. In Proceedings of EACL 2017, Valencia, Spain, April 2017, pp. 551-557.
26. Alex Plachkov, Voicu Groza, **Diana Inkpen**, Emil Petriu, Rami Abielmona, Moufid Harb, and Rafael Falcon. Soft-Data-Driven Resource Management for Concurrent Maritime Security Operations. In Proceeding of the 2017 IEEE Conference on Cognitive and Computational Aspects of Situation Management, Savannah, GA, USA, Mar 2017.
27. Ehsan Amjadian, **Diana Inkpen**, T. Sima Paribakht, and Farahnaz Faez. Local-Global Vectors to Improve Unigram Terminology Extraction. In Proceedings of CompuTerm 2016, the 5th International Workshop on Computational Terminology. COLING 2016, Osaka, Japan, Dec. 2016, pp. 2-11.
28. Soumaya Chaffar and **Diana Inkpen**. Using a Generic Text-based Approach for Emotion Prediction. In Proceedings of the International Conference on Computer and Applications (ICCA 2016), Dubai, UAE, Sept 2016.
29. Borui Shen and **Diana Inkpen**. Speech Intent Recognition for Robots. In Proceedings of the 3rd International Conference on Mathematics and Computers in Sciences and Industry, IEEE CPS, Chania, Crete, Aug 2016.
30. Alex Plachkov, Rami Abielmona, Moufid Harb, Rafael Falcon, **Diana Inkpen**, and Voicu Groza. Automatic Course of Action Generation using Soft Data for Maritime Domain Awareness. In Proceedings of the ACM Genetic and Evolutionary Computation Conference, Denver, CO, July 2016, pp. 1071-1078.
31. Arya Rahgozar and **Diana Inkpen**. Bilingual Chronological Classification of Hafez's Poems. In Proceedings of the Fifth Workshop on Computational Linguistics for Literature, NAACL 2016, San Diego, CA, June 2016, pp. 54--62.
32. Arya Rahgozar and **Diana Inkpen**. Poetry Chronological Classification: Hafez. In Proceedings of the 27th Canadian Conference on Artificial Intelligence (AI 2016), Victoria, BC, May 2016.
33. Chris Tanasescu, Bryan Paget, and **Diana Inkpen**. Automatic Classification of Poetry by Meter and Rhyme. In Proceedings of Florida Artificial Intelligence Research Society Conference (FLAIRS 2016), Key Largo, FL, May 2016, pp. 244-249.
34. Chiraag Sumanth and Diana Inkpen. How Much Does Word Sense Disambiguation Help in Sentiment Analysis of Micropost Data? In Proceedings of 6th Workshop on Computational Approaches to Subjectivity, Sentiment & Social Media Analysis (WASSA 2015), EMNLP 2015, Lisbon, Portugal, Sept 2015, pp. 67-77.
35. Prasadith Buddhitha and **Diana Inkpen**. Dependency-based Topic-Oriented Sentiment Analysis in Microposts. In Proceedings of the 2nd Annual International Symposium on Information Management and Big Data (SimBig 2015), Cuzco, Peru, Sept 2015.
36. Ji Liu and **Diana Inkpen**. Estimating User Locations on Social Media: A Deep Learning Approach. In Proceedings of the NAACL 2015 Workshop on Vector Space Modeling for NLP, Denver, Colorado, June 2015.
37. Parinaz Sobhani, **Diana Inkpen** and Stan Matwin. From Argumentation Mining to Stance Classification. In Proceedings of NAACL 2015 Workshop on Argumentation, Denver, Colorado, June 2015.

38. Andres Lou, **Diana Inkpen** and Chris Tanasescu. Multi-label Subject-based Classification of Poetry. In Proceedings of Florida Artificial Intelligence Research Society Conference (FLAIRS 2015), May 2015, pp. 187-192.
39. David Carter and **Diana Inkpen**. Inferring Aspect-Specific Opinion Structure in Product Reviews Using Co-training. In Proceedings of the 16th International Conference on Intelligent Text Processing and Computational Linguistics (CICLing 2015), LNCS 9042, Cairo, Egypt, Apr 2015, pp. 225-240. (acceptance rate for long papers 29%)
40. **Diana Inkpen**, Ji Liu, Atefeh Farzindar, Farzaneh Kazemi, and Diman Ghazi. Location Detection and Disambiguation from Twitter Messages. In Proceedings of the 16th International Conference on Intelligent Text Processing and Computational Linguistics (CICLing 2015), LNCS 9042, Cairo, Egypt, pp. 152-165. (acceptance rate for long papers 29%)
41. Diman Ghazi, **Diana Inkpen**, and Stan Szpakowicz. Detecting Emotion Stimuli in Emotion-Bearing Sentences. In Proceedings of the 16th International Conference on Intelligent Text Processing and Computational Linguistics (CICLing 2015), LNCS 9042, Cairo, Egypt, pp. 321-332. (acceptance rate for long papers 29%)
42. Haifa Alharthi and **Diana Inkpen**. Content-Based Recommender System Enriched with Wordnet Synsets. In Proceedings of the 16th International Conference on Intelligent Text Processing and Computational Linguistics (CICLing 2015), LNCS 9042, Cairo, Egypt, pp. 295-308. (acceptance rate for long papers 29%)
43. Falah Al-akashi and **Diana Inkpen**. Term Impact-Based Web Page Ranking. In Proceedings of 4th International Conference on Web Intelligence, Mining and Semantics (WIMS 2014), ICPS Published by ACM, Thessaloniki, Greece, June 2014.
44. Josh Weissbock and **Diana Inkpen**. Combining Textual Pre-game Reports and Statistical Data for Predicting Success in the National Hockey League. In Proceedings of the 25th Canadian Conference on Artificial Intelligence (AI 2014), Montreal, QC, Canada, May 2014, pp. 251-262. (acceptance rate for long papers 23%)
45. Amir H. Razavi and **Diana Inkpen**. Text Representation Using Multi-level Latent Dirichlet Allocation. In Proceedings of the 25th Canadian Conference on Artificial Intelligence (AI 2014), Montreal, QC, Canada, May 2014, pp. 215-226. (acceptance rate for long papers 23%)
46. **Diana Inkpen** and Amir H. Razavi. Topic Classification using Latent Dirichlet Allocation at Multiple Levels. Poster at CICling 2014, April 2014, Kathmandu, Nepal.
47. Amir H. Razavi, **Diana Inkpen**, Rafael Falcon and Rami Abielmona. Textual Risk Mining for Maritime Situational Awareness. In Proceedings of the 2014 IEEE International Inter-Disciplinary Conference on Cognitive Methods in Situation Awareness and Decision Support, March 2014, San Antonio, TX.
48. Josh Weissbock, Ahmed A. A. Esmin, and **Diana Inkpen**. Using External Information for Classifying Tweets. BRACIS 2013, pp. 1-5.
49. Josh Weissbock, Herna Viktor and **Diana Inkpen**. Using Performance Metrics to Forecast Success in the National Hockey League. In Proceedings of the Machine Learning and Data Mining for Sports Analytics workshop at ECML/PKDD 2013, Sept 2013, Prague, Czech Republic.
50. Amir H. Razavi and **Diana Inkpen**. General Topic Annotation in Social Networks: A Latent Dirichlet Allocation Approach. In Proceedings of the 26th Canadian Conference on Artificial Intelligence (AI 2013), Regina, SK, Canada, May 2013, pp. 293-300. (acceptance rate for long papers 26%)
51. Josh Weissbock, Hamid Poursepanj, and **Diana Inkpen**. uOttawa: System description for SemEval 2013 Task 2 Sentiment Analysis in Twitter. In Proceedings of the International Workshop on Semantic Evaluation SemEval 2013, June 2013, Atlanta, GA.
52. Namrata Patel, Pierre Accorsi, **Diana Inkpen**, Cédric Lopez and Mathieu Roche. Approaches of

- anonymisation of an SMS corpus. In Proceedings of the 14th International Conference on Intelligent Text Processing and Computational Linguistics (CICLing 2013), March 2013, 77-88.
53. Falah H. Al-Akashi and **Diana Inkpen**. Intelligent Web Page Retrieval Using Wikipedia Knowledge. In Proceedings of the International Conference on Web Intelligence, Mining and Semantics (WIMS2012), ICPS Published by ACM, Craiova, Romania, June 2012.
 54. Chris Fournier and **Diana Inkpen**. Segmentation Similarity and Agreement. In Proceedings of NAACL HLT 2012, Montreal, Canada, June 2012, pp. 152-161. (accept. rate long papers 31%)
 55. Martin Scaiano and **Diana Inkpen**. Getting More from Segmentation Evaluation. In Proceedings of NAACL HLT 2012, Montreal, Canada, June 2012, pp. 362-366. (accept. rate short papers 34.6%)
 56. Iustina Ilisei, **Diana Inkpen**, Gloria Corpas, and Ruslan Mitkov. Romanian Translational Corpora: Building Comparable Corpora for Translation Studies. In Proceedings of the LREC 2012 Workshop on Building and Using Comparable Corpora, May 2012, pp. 56-61.
 57. Dave Carter and **Diana Inkpen**. Searching for Poor Quality Machine Translated Text: Learning the Difference between Human Writing and Machine Translations. In Proceedings of the 25th Canadian Conference on Artificial Intelligence (AI 2012), Toronto, ON, Canada, May 2012, pp. 49-60. (acceptance rate for long papers 29%)