

**Spectrum:
Concordia University Research Repository
Eighth Annual Report, 2017
March 2018**

Spectrum: Concordia University Research Repository was launched in October 2009. Built using EPrints open source software (<http://www.eprints.org/>), it contains book chapters, articles, conference papers, datasets, and other works authored or created by members of the Concordia community. After a wide-ranging discussion involving faculty from across the University, in the spring of 2010 the Concordia Senate passed a resolution encouraging all Concordia researchers to deposit their peer-reviewed articles in Spectrum.¹ It is also the repository for Concordia theses and dissertations. This eighth annual report summarizes progress and achievements from **January 1, 2017 to December 31, 2017**, and outlines developments for Spectrum’s ninth year.

Growth and usage of content in Spectrum

Between January 1, 2017 and December 31, 2017, 803 documents were deposited in Spectrum.

Document Type	Number Deposited	Percentage of Total Deposits
Thesis	541	67.4%
Article	157	19.6%
Non-Thesis Graduate Project	33	4.1%
Monograph Chapter	23	2.9%
Monograph	22	2.7%
Conference Paper	21	2.6%
Dataset	5	0.6%
Video	1	0.1%

Table 1. Number of documents added to Spectrum by type and percentage of total, 2017.

A total **15,214** documents were deposited in Spectrum from September 1, 2009 to December 31, 2017. Access to Spectrum’s full text content between January 1, 2017 to December 31, 2017 was **594,892** downloads. Total or cumulative downloads of Spectrum materials from September 1, 2009 to December 31, 2017 was **4,550,922**.

¹ Concordia University Senate Resolution on Open Access, 2010,
<http://library.concordia.ca/research/openaccess/SenateResolutiononOpenAccess.pdf>.

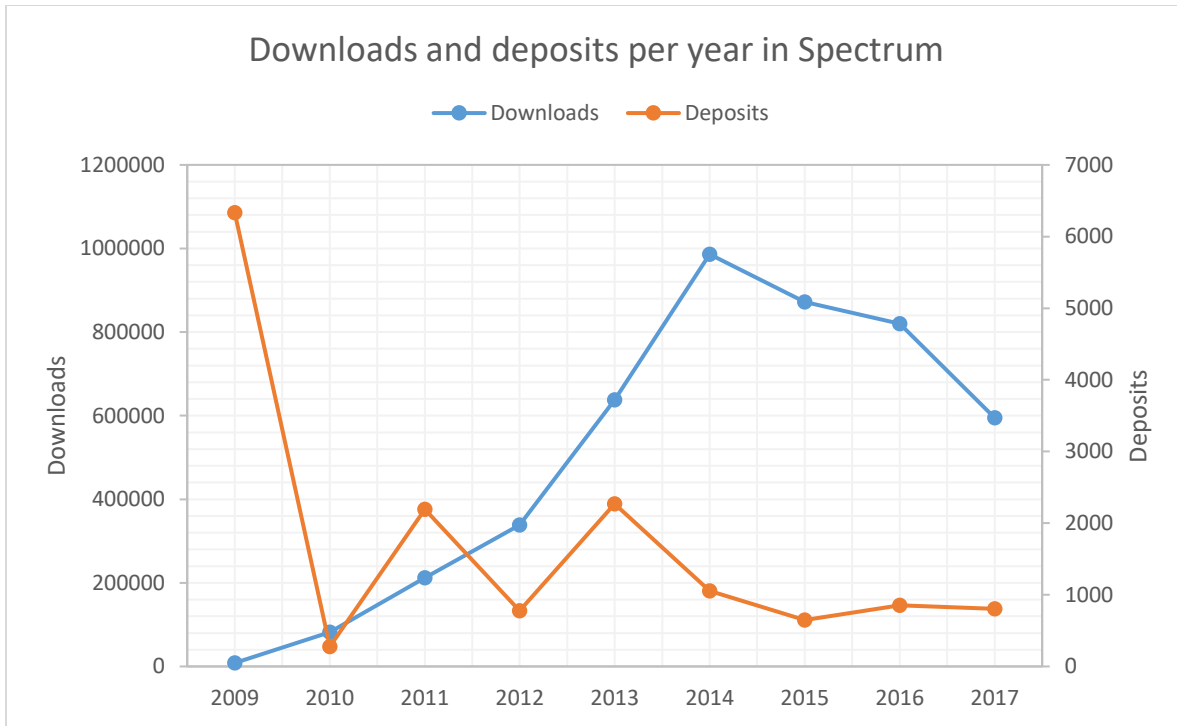


Figure 1. Number of deposits in and full-text downloads from Spectrum per year over an eight-year period.

Spectrum is accessed by users from across the globe; the top ten countries represented by downloads for the period covered in this report are (in descending order): Germany, United States, Canada, China, United Kingdom, India, France, Japan, Australia and Republic of Korea.

Spectrum’s download statistics track information about individual authors and deposits. The following authors’ works were heavily downloaded during Spectrum’s eighth year.

Author	Department/Faculty	Downloads
Laroche, Michel	John Molson School of Business	10,848
Richard, Marie-Odile	John Molson School of Business	6,949
Habibi, Mohammad Reza	John Molson School of Business	6,350
Sankaranarayanan, Ramesh	John Molson School of Business	6,237
Okoli, Chitu	John Molson School of Business	3,336
Radomsky, Adam S.	Psychology	2,906
Pawlowski, Suzanne D.	John Molson School of Business	2,881
Reilly, Rosemary C.	Applied Human Sciences	2,775
Valverde, Raul	John Molson School of Business	2,491
Charbonneau, Olivier	Library	2,413

Table 2. Most downloaded Spectrum authors, 2017.

The following 10 documents in Spectrum received the most full-text downloads from January 1, 2017 to December 31, 2017.

Author	Document Type	Title	Downloads
Laroche, Michel, Habibi, Mohammad Reza, Richard, Marie-Odile and Sankaranarayanan, Ramesh	Journal Article	The effects of social media based brand communities on brand community markers, value creation practices, brand trust and brand loyalty	6,194
Okoli, Chitu and Pawlowski, Suzanne D.	Journal Article	The Delphi method as a research tool: an example, design considerations and applications	2,881
Hassanein, Ahmed	Ph.D. Thesis	Planning and scheduling highway construction using GIS and dynamic programming	2,297
Farah, Carlos Abou	M.A.Sc. Thesis	Ultimate bearing capacity of shallow foundations of layered soils	1,864
Mohammadi, Babak	M.A.Sc. Thesis	Development of Concrete Water Absorption Testing for Quality Control	1,793
Wang, Ruiping	M.A.Sc. Thesis	A study of vibration isolation of engine mount system	1,616
Konidis, Jordan	M.Eng. Thesis	Design of direct heated rotary dryers	1,288
Campbell, Margaret S	M.A. Thesis	Perspectives on Pornography and Erotica: Nudes, Prudes and Attitudes	1,212
Millette, Valerie	M. Sc. Admin. Thesis	Designing volunteers' tasks to maximize motivation, satisfaction and performance ; The impact of job characteristics on the outcomes of volunteer involvement	1,156
Waclawek, Anna	Ph. D. Thesis	From graffiti to the street art movement : negotiating art worlds, urban spaces, and visual culture, c. 1970-2008	1,115

Table 3. Most downloaded Spectrum documents, 2017.

Developments in 2017 and Goals for 2018

As of 2017, all of the changes to the source code for Spectrum have been managed with a library git version control system (<https://git-scm.com/>). This will improve the efficiency of future feature enhancements and upgrade processes for Spectrum.

The [browse by document type](#) screen was made more detailed by the inclusion of the ability to browse by document subtypes for monograph, conference and thesis items.

In 2017, Spectrum was configured to serve content through a secure SSL connection with HSTS ([HTTP Strict Transport Security](#)). This is the recommended best practice by Google and major web browsers such as Firefox and Chrome. As a result, users are consistently redirected to secure HTTPS connections whenever accessing Spectrum.

The backlog of [thesis harvesting](#) by Library and Archives Canada that was planned for 2017 has been postponed until Library and Archives Canada completes the technological improvements on their systems. In 2017, in preparation for the harvesting, a prototype of the required [OAI-ORE](#) export functionality was added to Spectrum.

The integration of [ORCID](#) (Open Researcher and Contributor ID) will be enhanced in 2018 through an upgrade to the latest version of the [ORCID Support plugin](#). In addition, Concordia University has joined the [ORCID-CA Consortium](#), giving us access to functionality that facilitates registration, depositing, editing and updating ORCID data, with permission of individual ORCID ID holders. In 2018, we will continue to work in collaboration with ORCID-CA to promote the adoption and integration of ORCID with key research information systems. For example, we aim to configure the ability to sign into ORCID with Concordia institutional credentials.

In 2018, work on digital preservation within the context of Spectrum will result in an update to the “File Formats” recommendations in the [Spectrum Guidelines](#). The recommended file formats will be presented as part of an updated and detailed Format Policy Registry.

As part of the metadata quality control review of theses deposited in Spectrum since 2012, we plan to complete the examination of the “Program” metadata field in 2018.

Last, we will work on an updated layout for the abstract pages in Spectrum and experiment with the addition of the [Core Recommender plugin](#). This plugin suggests similar articles found in the [CORE](#) database while browsing Spectrum.

Submitted by D. Dennie and T. Neugebauer