November 24 - 25, 2020 • Virtual Course

Unlock the Value in Your Data to Enhance Evidence-Based Decision-Making in Your Organization!

Virtual Course

Big Data & Analytics
for the Public Sector

Advance your knowledge in government-utilized predictive analytics, data visualization and artificial intelligence

YOUR FACULTY

CONFIRMED PARTICIPANTS INCLUDE:

Paul Girard
Treasury Board Secretariat

Dr. Alma Barranco-Mendoza
Infogenetica Solutions Ltd.

Anthony Mantione
Labour Market Information Council

... and more

Benefits of attending:

- Address the challenges in cross-jurisdictional data sharing
- Hear the latest in tools to enhance data-driven decisions
- Implement business information analysis to public service programs
- Protect privacy while meeting your objectives
- Explore how to incorporate blockchain in the way government functions today
- Procurement to support improved data sharing
- Discuss the enthusiasm behind visualization and identify where data visualization can be adopted
- Examine value creation for transactions, assets, contracts, voting, compliance, identity management, supply chain traceability, healthcare and taxation
- Hear case studies from Canada, the U.S., all levels of government, and various spheres for application
- Learn what artificial intelligence means for big data
- Explore the implications for big data and behavioral science on policy-making

Plus! *Get tips for going beyond predictive data and into predictive maintenance*

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Big Data & Analytics for the Public Sector

November 24 - 25, 2020 • Virtual Course

DAY ONE PROGRAM AGENDA: TUESDAY, NOVEMBER 24, 2020

10:00 - 10:10 EST

Welcome and Opening Remarks from the Chairs

Ajay K. Sood, Regional Vice President, Country Manager, Armis

Adam Splonick, Senior Account Executive, Armis

10:10 - 11:10 EST

Why Organizations Should Consider Adopting Agile, DevOps and Cloud

Paul Girard, Executive Director and Chief Information Officer, Treasury Board Secretariat

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11:10 - 11:30 EST Break

11:30 - 12:30 EST

Transforming Data and Analytics in Ontario's Social Services: A Five-Year Retrospective

Mandeep Flora, Director, Data Strategy & Solutions Platform, Ministry of Children, Community & Social Services, Government of Ontario

Learn about the multi-year journey of the Ontario Ministry of Children, Community and Social Services (MCCSS) and its cultural and organizational transformation to enhance how data and analytics inform social policy planning and service design and delivery. A number of strategic data activities and case studies will be presented, as well as lessons learned in executing an enterprise data and analytics strategy in the midst of a transformative ministry agenda, demonstrating how MCCSS:

- Implemented a data strategy and a new organizational model to better deliver analytics in supporting decision-making
- Designed modern data governance and analytics infrastructure to improve data quality and access
- Co-led efforts to introduce new Ontario legislation to enable ministries to integrate data, as well as developing partnerships across governments and partners and answer large social policy questions
- Used collaborative, agile processes to better and more quickly serve business needs, including in response to COVID-19

12:30 - 13:30 EST Break

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DAY ONE PROGRAM AGENDA: TUESDAY, NOVEMBER 24, 2020

13:30 - 14:30 EST

Remote Sensing for Large Animal Detection in St. Lawrence

Ayse Rumeysa Mohammed, Data Scientist, Transport Canada

- Remote Sensing / Image Classification / Object Detection description
- Transport Canada Whale Detection project description
- Project phase 1 applications with Kaggle Dataset
- Project phase 2 applications with TC dataset
- The challenges of Transport Canada dataset
- Current model performances
- How to improve the performances / image transformations and filtering
- What are we doing currently and what we will do in the future

14:30 - 15:30 EST

Predictive Targeting for Regulatory Enforcement

Carlos Jabour, Senior Data Scientist, Environment and Climate Change Canada

- Applying a risk-based methodology: propensity and impact of noncompliance
- Linking historical compliance records to intradepartmental, interdepartmental and external datasets
- Modelling drivers of noncompliance over time
- Applying Machine Learning and Deep Learning approaches for predictive targeting
- Field testing model results

15:30 - 15:45 EST Break

15:45 - 16:45 EST

Developing an Information Strategy for Effective Data Governance and Performance Management

Dr. Alma Barranco-Mendoza, CEO, Infogenetica Solutions Ltd.

- Understand the key elements that conform an effective Information Strategy within the public sector
- Identify the common challenges we need to address when managing Big Data
- How to align an organization’s data with the organization’s strategic objectives
- Understand what constitutes effective data governance and how it can be implemented within the public sector
- Identify and avoid common pitfalls in data analysis

16:45 EST

Closing Remarks from the Chairs

Ajay K. Sood, Regional Vice President, Country Manager, Armis

Adam Splonick, Senior Account Executive, Armis

DAY ONE PROGRAM AGENDA: TUESDAY, NOVEMBER 24, 2020

DAY TWO PROGRAM AGENDA: WEDNESDAY, NOVEMBER 25, 2020

10:00 - 10:10 EST

Welcome and Opening Remarks from the Chairs

Ajay K. Sood, Regional Vice President, Country Manager, Armis

Adam Splonick, Senior Account Executive, Armis

10:10 - 11:10 EST

Improving the Timeliness, Localness, and Granularity of Labour Market Information with Web Scraped Data

Anthony Mantione, Senior Economist, Labour Market Information Council

- Understand the role of labour market information (LMI) in making career, training, and education related decisions
- Appreciate the controversy surrounding skills shortages in Canada
- Learn about the current strategies using web scraped data to identify the skills needed by Canadians to succeed in the changing workforce
- Discover what the federal government is doing to help improve the discussion surrounding skills training and development in Canada
- Understand the importance of data transparency

11:10 - 11:30 EST Break

11:30 - 12:30 EST

From Data to Decision Making during Uncertainty: Seconds Count

Sid Tobias, Director, Digital Standards Office, Technology and Business Transformation, Advanced Education and Skills Training, Government of British Columbia

- Unprecedented urgency for decision support tools: Climate change vs predictive weather forecast (BC Wildfire Case Study)
- Choosing the right decision framework based on complexity theory: uncomplicated data does not address complicated problems
- From data to prediction ensuring your data is applicable: could you be dangerously making inferences on base data
- From prediction to modeling: trying my decision before applying my decision
- From modeling to evidenced based decision making

12:30 - 13:30 EST Break

DAY TWO PROGRAM AGENDA: WEDNESDAY, NOVEMBER 25, 2020

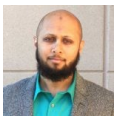
13:30 - 14:30 EST

Who's Afraid of Unmanaged Devices?

Ajay K. Sood, Regional Vice President, Country Manager, Armis

- We all have seen the statistics about the growth of unmanaged devices, sometimes called the "Enterprise of Things". This includes building management systems (lighting, cooling), security systems (cameras, badge readers), office equipment (smart TVs, headsets, phones, printers), and specialized devices used in environments such as retail, manufacturing and healthcare
- Is it time to worry about these devices from a security perspective? Can attackers use these devices to undermine our carefully constructed cyber defenses? If so, what kind of defenses do we need that we don't already have?
- This presentation will explore the realities of Enterprise of Things devices, including their inherent security weaknesses and the attacks that are currently targeting them. Some common-sense models of security will then be proposed that could help mitigate the security risks

14:30 - 15:30 EST



Building a Data Science Capacity in the Healthcare sector

Saad Rais, Senior Manager, Health Data Science, Ontario Ministry of Health

- Overview of data science and analytics
- Applications in healthcare
- Priorities in capacity building
- Use cases
- Challenges

15:30 - 15:45 EST Break

DAY TWO PROGRAM AGENDA: WEDNESDAY, NOVEMBER 25, 2020

15:45 - 16:45 EST

Our Journey: Data and Analytics Strategy at a Central Bank

Erik Balodis, Program Director, Enterprise Data & Analytics Strategy, Bank of Canada

- The Bank of Canada is keenly aware of the rapid pace of change of the Canadian economy, and we understand the value of improved data and analytics to improve policy, research and business decision making
- In 2018, we set out to capture a data and analytic strategy that would meet the evolving needs of Bank staff, and of Canadians. This strategy had to address a range of data maturity levels, and was finalized in 2019.
- Over the last 18 months, we've made significant progress to drive change across the Bank's people, processes, and technologies; all with the objective of strengthening our data foundation, and improving our ability to undertake advanced data work.
- COVID-19 has provided a new backdrop to our strategic efforts, and has placed an emphasis on digital transformation and the data capabilities that support our digital ambitions
- This talk will discuss our journey, where we've made progress, and where we've encountered challenges.

16:45 EST

Closing Remarks from the Chairs

Ajay K. Sood, Regional Vice President, Country Manager, Armis

Adam Splonick, Senior Account Executive, Armis

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Address _____

City _____ Province _____ Postal Code _____

Company's main line of business _____ Number of Employees _____

2 SELECT YOUR PREFERRED PAYMENT METHOD

Prices subject to GST / HST	**Full Price**	**Register by November 6**
Course for Groups of 3 +	CAD $ 2,199 each	**CAD $ 1,699 each**
Course for Groups of 2	CAD $ 2,299 each	**CAD $ 1,799 each**
Course for 1 Registrant	CAD $ 2,399	**CAD $ 1,899**

Register by **NOVEMBER 6 to SAVE up to CAD $ 500** off the regular course fee

** Groups must register together at the same time to be eligible for group savings.*

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Big Data & Analytics for the Public Sector will be held as a virtual on-line event. Details on how to access and participate in the event will be sent to all confirmed delegates prior to run date.

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CANCELLATION POLICY:

Substitutions may be made at any time. If you are unable to attend, please make cancellations in writing and email to register@infonex.com or fax to 1.800.558.6520 **no later than November 10, 2020**. A credit voucher will be issued to you for the full amount, redeemable against any other INFONEX course and which is valid for twelve months (one year) from the date of issue.

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