

February 18 - 19, 2020 • Ottawa, Ontario

Optimize Digital Transformation Strategies for Improved Outcomes!

# Preparing for Artificial Intelligence in the Public Sector

*Be Ready for a Future in which AI will be the Basis of Decision Making in the Public Sector!*

## YOUR FACULTY CONFIRMED PARTICIPANTS INCLUDE:



**Shannon Drew**  
Canada Revenue  
Agency



**Somaieh Nikpoor**  
Government of Canada



**Gregory Richards**  
University of Ottawa



**John Ogilvie**  
Bifrost Group



**Major James Lindsay**  
Department of  
National Defence

... and more

## Benefits of attending:

- Gain a valuable new perspective into how data science can improve efficiency
- Exploring privacy while meeting your data objectives
- Best practices and lessons learned from leading government departments and agencies
- Gain specialized technical and business insights from custom tracks with actionable information
- Benchmark your current strategies and initiatives with other leading companies
- Learn what artificial intelligence and machine learning means for big data
- Implement business information analysis with the use of big data and machine learning
- Hear the latest developments in Leveraging AI to improve human performance and interaction
- Learn how data science can facilitate the public sector to best use the skills and people it has at its disposal
- Speak to industry leaders who are driving technological innovation in the industry

**Plus!** Hear the latest updates from the top data & analytics executives all across North America



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**DAY ONE PROGRAM AGENDA: TUESDAY, FEBRUARY 18, 2020**

08:00 - 09:00 Registration and Continental Breakfast

09:00 - 09:10



**Welcome and Opening Remarks from the Chair**

***John Lark, Co-Founder, Applied AI Canada Inc.***

09:10 - 10:00



**Laying the Groundwork**

***Francois Leblanc, Data Scientist, Treasury Board of Canada Secretariat***

- Preparing for AI: what to expect
- Data Science: decision support vs automation
- Getting your data house in order
- Building a framework for experimentation
- Focus on your business and the rest will follow

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10:00 - 10:15 Break

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10:15 - 11:15



**Machine Learning Applied to Cyber Security ... This Time is Different?**

***Major James Lindsay, Chief Architect and Engineer of End Point Security, Department of National Defence***

- Is Machine Learning, when applied to cyber security, just a buzzword that is nearing the end of a hype cycle. Or has a fundamental shift in technology occurred that requires the cyber community to rethink how it delivers cyber security defence
- Quick deep learning overview
- Where is machine learning currently being used within cyber security
- Potential existing applications of machine learning to cyber security issues
- Geopolitical drivers of AI and machine learning adoption

**DAY ONE PROGRAM AGENDA: TUESDAY, FEBRUARY 18, 2020**

11:15 - 12:15



**How Standards Bridge the Gap Between AI Innovation and Implementation**

**Keith Jansa, Executive Director, CIO Strategy Council**

- Learn about how standards play a critical role in facilitating innovation and addressing the ethical use of artificial intelligence
- Hear about the latest developments in the creation of Canadian standards for the digital space – from data governance to AI and cybersecurity
- Discover partnership and thought leadership that is bridging the divide between public and private sector innovation
- Explore novel use cases modernizing the toolkit for bringing AI products and services to market
- Learn about how Canada is poised to provide an international benchmark for the next generation of AI talent to drive future certification and credentialing programs at the national, regional and international level

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12:15 - 13:15    Luncheon

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13:15 - 14:15



**Application of AI to Government Finance and Audit**

**John Craig, Director, Government & Integration Partnerships, MindBridge Ai**

- Financial data is being created exponentially, and current financial management and audit processes are failing to detect errors, omissions and fraud, together referred to as financial anomalies
- Today, only specially trained analysts are able to review and detect financial anomalies, creating a resource bottleneck
- AI allows for the democratization of analytics, allowing all financial managers and auditors to leverage analytics without specialized training
- AI is 10x-30x more effective at detecting financial anomalies than current accounting methods
- AI provides a way for finance officers to detect financial anomalies (fraud and mistakes) before the audit process, and for auditors to more rapidly perform audits, and focus in on risky transactions

**DAY ONE PROGRAM AGENDA: TUESDAY, FEBRUARY 18, 2020**

14:15 - 15:15



**AI in the Public Sector - A Source of Uncertainty**

**John Lark, Co-Founder, Applied AI Canada Inc.**

The arrival of computers and the Internet changed all aspects of our lives, Artificial Intelligence is similarly swiftly changing our world from predicting products you may want to purchase to analyzing medical test results and predicting.

In response to this pervasive implementation of AI, the Treasury Board Secretariat has developed a Directive on automated decision making that comes into force on April 1, 2020 and which applies to any AI system developed or procured after April 1, 2020. The objective of the TBS Directive is to ensure that automated decision systems are deployed in the federal government in a manner that reduces risk to Canadians and to federal institutions, and in a way that leads to more efficient, accurate, consistent, and interpretable decisions.

- The following techniques are specifically identified as related to AI: rules-based systems, regression, predictive analytics, machine learning, deep learning, and neural nets
- The presentation will touch on how to determine whether AI is a good fit for the problem you have or the operation you are thinking of modifying
- There will be a question and answer session at the end to respond to specific areas of interest to conference participants

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15:15 - 15:30    Break

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15:30 - 16:30



**Building GC AI Clusters on Premises and in the Cloud**

**John Ogilvie, IT Architect, Bifrost Group**

- AI clusters require specific “High Performance Computing” IT equipment
- GC users can deploy HPC/AI clusters on premises, in the cloud or at the shared GC HPC centre
- What are the pros and cons of each approach?
- What are the costs and schedules involved?
- What does a ‘standard architecture’ look like for HPC/AI?

16:30

**End of Day One**

**DAY TWO PROGRAM AGENDA: WEDNESDAY, FEBRUARY 19, 2020**

08:00 - 09:00 Registration and Continental Breakfast

09:00 - 09:10



**Welcome and Opening Remarks from the Chair**

***John Lark, Co-Founder, Applied AI Canada Inc.***

09:10 - 10:00



**Artificial Intelligence at the Canada Revenue Agency**

***Shannon Drew, Acting Director General, Research & Innovation Lab, Canada Revenue Agency***



***Philippe Bélanger, Manager, Advanced Analytics, Accelerated Business Solution Lab, Canada Revenue Agency***

- Provide better service and enhancing client experience
- Enable better detection/deterrence of non-compliance
- Increase efficiency of our internal programs and corporate services

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10:00 - 10:15 Break

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10:15 - 11:15



**The Almost Mythical Expectations Concerning AI's Impact on our Future**

***Alex Ramirez, Associate Professor, Information Systems, Sprott School of Business, Carleton University***



***Gregory Richards, Executive MBA Director and Adjunct Professor, University of Ottawa***



***Stéphane Gagnon, Associate Professor, Business Technology Management, Université du Québec en Outaouais***

- Jobs will disappear
- Robots will be ubiquitous
- Computers will anticipate our needs
- Humans will be augmented by cyberotechnology
- Computers will play a major role in solving social problems

In this session, we will explore the “kernels of truth” contained in these expectations and discuss what’s real and what’s likely to emerge

**DAY TWO PROGRAM AGENDA: WEDNESDAY, FEBRUARY 19, 2020**

11:15 - 12:15

**Cloud Foundations for AI in the Department of National Defence**

**James McIntosh, Senior Cloud Architect, Department of National Defence**

- The DND Cloud Journey
- Cloud foundations
- Network – joys and sorrows
- Data – glitches and gotchas
- Path to PROD ( PBMM)

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12:15 - 13:15 Luncheon

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13:15 - 14:15



**AI for Regulatory Compliance: A Shift Towards Risk Prevention**

**Somaieh Nikpoor, Research Advisor, Labour Program, Government of Canada**

- The potential for leveraging AI-powered solutions for regulatory compliance.
- How can AI increase the efficiency and effectiveness of regulators?
- The limits and challenges of using AI for regulatory compliance.
- Lessons learned from Labour Program experiments with AI.

14:15 - 15:15



**Beyond the Algorithmic Impact Assessment (AIA): Procuring, Building and Deploying AI in the Public Sector**

**Rob Davidson, Manager, Data Analysis & Research, Information & Communications Technology Council (ICTC)**

- The AIA and its Function (hint: Risk Management)
- The Federal Government's AI Procurement Vehicle
- Acquiring and Building Responsible AI
- Practical Operational AI Considerations
- The Future of AI in the Public Sector

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15:15 - 15:30 Break

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**DAY TWO PROGRAM AGENDA: WEDNESDAY, FEBRUARY 19, 2020**

15:30 - 16:30

**What If We Are Not Prepared for AI in the Public Sector?**

**Ken Holmes, CMA Senior Analyst, Federal Government**

Ken will build on former research presented at Infonex where he presented the economic and social change that drives increases in cyber-attacks; the dangers of artificial intelligence in control of dangerous nation and non-state leaders; and, the requirement for the audit and IT communities to work as one coordinated team to combat the negative challenges of the 21st Century. This presentation focuses on the consequences if the IT community is not ready for AI and have neglected to deploy due diligence. Such failures are far deeper than most IT professionals realize. His presentation moves from defining what due diligence means though, to example scenarios on the costs and consequences in our era where due to Internet of Things results in overlap between public sector systems and the private sector.

- Why is due diligence in the management and protection of systems and data essential in this era of AI generated cyber attacks?
- Our IT systems are now the backbone that supports confidence in our economic systems. What happens when public confidence fails?
- Public sector systems overlap with private sector systems. What happens when a substantive failure originates in a public system that affects private citizens and corporate profitability?
- Three scenario examples illustrate the challenges that arise from the failure of IT managers to carry out due cyber diligence.

16:30

**End of Day Two**

**SPONSORSHIP AND EXHIBITION OPPORTUNITIES**

Increase your visibility with senior business strategy, technology, analytics, and business intelligence professionals at *Preparing for Artificial Intelligence in the Public Sector*. A limited number of sponsorship options are available.

For more information or to check availability, contact our sponsorship department by telephone at 416.507.4202, or by email at [sponsorship@infonex.com](mailto:sponsorship@infonex.com).



# Preparing for **Artificial Intelligence** in the Public Sector

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## REGISTER BY PHONE, ON-LINE, OR IN THESE 3 EASY STEPS!

### 1 PRINT YOUR NAME AND CONTACT INFORMATION

Full Name \_\_\_\_\_ Title \_\_\_\_\_

Organization \_\_\_\_\_

Telephone (\_\_\_\_) \_\_\_\_\_ Ext \_\_\_\_\_ Fax (\_\_\_\_) \_\_\_\_\_

Email address \_\_\_\_\_

Name of Approving Manager \_\_\_\_\_ Title \_\_\_\_\_

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 January 24
Course for Groups of 3 +	\$ 2,199 each	<b>\$ 1,999 each</b>
Course for Groups of 2	\$ 2,299 each	<b>\$ 2,099 each</b>
Course for 1 Registrant	\$ 2,399	<b>\$ 2,199</b>



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#### LOCATION:

*Preparing for Artificial Intelligence in the Public Sector* will be held at a convenient location in Ottawa, Ontario. Detailed venue information will be forthcoming as it becomes available.

#### YOUR REGISTRATION INCLUDES:

Registration fees include all course materials, continental breakfast, lunch, and refreshments. **Parking and accommodation are not included.**

#### SPONSORSHIP, EXHIBITION, AND PROMOTIONAL OPPORTUNITIES:

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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](mailto:register@infonex.com) or fax to 1.800.558.6520 **no later than February 18, 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.

Registrants who cancel after **February 18, 2020**, will not be eligible to receive any credits and are liable for the entire registration fee.

Confirmed registrants who do not cancel by **February 18, 2020** and fail to attend will be liable for the entire registration fee.

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