

CASCON x EVOKE 2021

NOVEMBER 22 - 25

A premier industrial and academic conference for advanced studies in computer science and software engineering - sponsored by IBM Advanced Studies and EVOKE Foundation.

Replays



Thanks for joining us. Watch replays here

Social



#CXEtchconf



Intelligent Systems and Software

CASCON x EVOKE 2021, taking place virtually from November 22-25, is the premier industrial and academic conference for advanced studies in computer science and software engineering - sponsored by IBM Advanced Studies and EVOKE Foundation.

IBM Advanced Studies is committed to organizing meaningful digital delivery through COVID-19 restrictions. The second virtual CASCON x EVOKE will once again prioritize opportunities to network, present and learn by leveraging technology to ensure user experience and community participation.



OUR EVENTS

<p>212 INDUSTRY SPEAKERS</p>	<p>187 UNIVERSITY SPEAKERS</p>	<p>4 KEYNOTES</p>	<p>10 TECHNICAL THEMES</p>	<p>66 INDUSTRY TALKS</p>
<p>25 WORKSHOPS</p>	<p>33 ACADEMIC TALKS</p>	<p>41 TECHNICAL BOOTHS</p>	<p>0 SALES TALK</p>	

SPEAKERS

KEY-NOTE SPEAKERS

<p>RAMA AKKIRAJU IBM Fellow, CTO IBM</p>	
<p>MARTIN FONTAINE Chief Research Officer CSE</p>	<p>ASHKAN KARBASFROOSHAN Chief Executive Officer WatchMojo</p>
<p>KRZYSZTOF CZARNECKI Professor University of Waterloo</p>	

FEATURED SPEAKERS

HelloHelloHelloHelloHelloHelloHelloHelloHelloHelloHelloHelloHelloHelloHelloHello



Activity Sessions

In spirit of a virtual conference, CASCONxEVOKE is bringing you at-home activities that the whole family can enjoy! Listen to amazing music from Ottawa band Suit and Tie, and participate in activities with instructors Jessica, Amanda and Pablo. These fun activity sessions will occur periodically throughout the course of the conference!

HelloHelloHelloHello



CASCON, The 31st Annual International Conference, Is The Premier Industrial + Academic Conference For Advanced Studies In Computer Science And Software Engineering Sponsored By The IBM Canada Lab.



[View more](#)

EVO KE

Evoked Brings Together The Developer Community In Toronto For One Of The Largest Developer Conferences And Events In Canada. Evoked's Mission Is To Inspire, Excite, Motivate And Unite Canada's Leading Developers, Engineers, Data Scientists, Tech Leaders And Entrepreneurs.

[View more](#)

SOCIAL MEDIA

Share the word about our conference with these CASCON x Evoke 2021 Social Posters!

Share on Social Media!



LIVE TWEETS

See what everyone is saying about the conference!



[#CXEtechconf](#)

[Tweet Now!](#)



 **Terry Cutler** 
@TerryCutler

Register today, I'll be a guest speaker at this year's CASCON x Evoke 2021. This premier conference for advanced studies in computer science and software engineering sponsored by IBM Advanced Studies and EVOKE Foundation. Visit <https://t.co/lwEgRtG815> to register #CXETechConf

 **Diversity Institute** 
@RyersonDI

The second virtual #CXETechconf is taking place from Nov 22-25! There will be lots of opportunities to network, present and learn the latest in computer science and software engineering! Registration is free: <https://t.co/9k9CCaplc5>

 **Future Jobs Canada** 
@futureJobsCan

📅 Mark your calendars! On November 24th join our panel "What will the transition to digital economy look like? Exploring future Skills, Jobs, and policies needed Post COVID" at CASCON x EVOKE conference! #CXETechconf #AdvancedStudies @IBMCanada @EvokeConf #FutureJobsCanada



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#CXETechconf
www.cascon.ca
TERRY CUTLER
Founder & CEO
Cytogen Labs
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 **Evoke** 
@EvokeConf

Calling all software developers, researchers, innovators, academics, and decision-makers! Next week is IBM's & Evoke's annual CASCON x Evoke virtual developer conference. Connect with industry and academia and register today for free at <https://t.co/EL4einfW1l>! #CXETechConf



 **Guy Levesque** 
@GuyLevesqueUOtt

<https://t.co/8YzwmkE7gg> #CXETechconf #AdvancedStudies @IBMCanada @EvokeConf



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 **Omid Moaddab** 
@OMoaddab

<https://t.co/wphTAU6K9K> #CXETechconf #AdvancedStudies @IBMCanada @EvokeConf

 **Iosif Viorel Onut** 
@VioOnut

As Conference General Chair of CASCONxEVOKE, I have the pleasure and opportunity to work with a great team on what will be an excellent technical conference. Join us, only 2 more days! <https://t.co/5p1Bbx8QP> #CXETechconf #AdvancedStudies @IBMCanada @EvokeConf



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Founding General Chair of CASCON x E

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 **Aleem Rehmtulla** 
@aleemrehmtulla

Super excited to talk about DAOs and NFTs in the funding + ownership of scientific research @ IBM's Evoke conference! Join in on Nov 22nd @ 5pm ET: <https://t.co/q8fx7hPdG> #CXETechconf #AdvancedStudies



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ALEEM REHMTULLA
Industry Talks Speaker
Architect
IBM
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 **IBM Canada** 
@IBMCanada

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 **Jennifer Collins (she/her)** 
@jlcleads

Where industry and academia meet! Register for free! <https://t.co/2HuZ3JyNGF> #CXETechconf #AdvancedStudies @IBMCanada @EvokeConf



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Register for free at CASCON.CA

 **Steven Astorino** 
@astorino_steven

Join me at CASCON x EVOKE. Learn about the latest in Intelligent Systems and Software, Cloud Computing, Emerging Technologies, Big Data Systems, and Privacy & Security. #CXETechconf <https://t.co/zBs2Foy3JU> #IBM

 **Terry Cutler** 
@TerryCutler

Register today, I'll be a guest speaker at this year's CASCON x Evoke 2021. This premier conference for advanced studies in computer science and software engineering sponsored by IBM Advanced Studies and EVOKE Foundation. Visit <https://t.co/lwEgRtG815> to register #CXETechConf



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STEVEN ASTORINO
Senior Executive, Director of Development, Data and AI and Director, Lead Director
Global and Corporate Software
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 **Tinny Ng** 
@tng_ca

Only 4 days left! Excited to meeting you all virtually on Monday! Register for free: <https://t.co/UyBzlnGmIJ> #CXETechconf #AdvancedStudies @IBMCANADA @EvokeConf



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<https://www.cascon.ca>

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 **Tinny Ng** 
@tng_ca

I'll be joining all the students, faculty and technical experts gathering at this year's CASCON x EVOKE to hear over 180 university speakers and over 200 industry speakers. Look forward to it! #CXETechconf #AdvancedStudies @IBMCANADA @EvokeConf



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KEYNOTE SPEAKERS

- MARTIN FONTAINE, Chief Technical Officer, IBM
- PAMA AKKIPPAU, CEO, EVOKE
- KRZYSZTOF CZARNECKI, Professor, University of Waterloo
- ASHRAN KARBASPOOSHAN, Chief Executive Officer, IBM

REGISTER FOR FREE @ CASCON.CA

 **Terry Cutler** 
@Terrycutler

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 **Christine Andrew** 
@chrisandrew

I'm super excited to be speaking at the @IBM Canada CASCON x @EvokeConf #tech conference next week. Join me for my talk on Inclusion by Design: The role of technology in fostering diversity and inclusion on November 24 at 2:45 pm ET #CXETechconf #InclusionAndDiversity



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CHRISTINE ANDREW
Managing Director for Digital @IBM

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 **Terry Cutler** 
@Terrycutler

Very honored to be a guest speaker at this year's CASCON x Evoke 2021. This premier conference for advanced studies in computer science and software engineering sponsored by IBM Advanced Studies and EVOKE Foundation. Visit <https://t.co/lwEgRtG815> to register for free #CxEtechConf



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Founder & CEO
Cytogenics Labs

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TOPIC STREAMS

Attendees may choose to watch a variety of themed discussions displayed on our 9 stages. Each stage will display presentations, keynotes and interesting discussions led by successful and innovative speakers.

- CLOUD COMPUTING
- BIG DATA SYSTEM
- COGNITIVE/AI SYSTEM
- PRIVACY & SECURITY
- EMERGING TECHNOLOGIES
- QUANTUM COMPUTING
- DECENTRALIZED SYSTEMS
- HUMAN FACTORS & SOCIETY
- SOFTWARE ENGINEERING
- AIOPS DIGITAL TWINS

FORMATS

- PAPERS
- EXPO
- WORKSHOPS
- INDUSTRY TALKS

EVENT SCHEDULE

FILTER BY

DAY

TOPIC

FORMAT

MONDAY

TUESDAY

WEDNESDAY

THURSDAY

Monday

All times displayed are in Eastern Standard Time

Cloud

Cognitive/AI Systems

Emerging Technologies

Decentralized Systems

Software Engineering

Big Data Systems

AI Operations and Digital Twins

9:30 AM

Welcome - Highlight for the day

10:00 AM



Keynote - Rama Akkiraju: AIOps: Automating and Optimizing IT Operations Management with AI

HAUSI MULLER, RAMA K AKKIRAJU

15 mins break - Day 1: Stretch at your desk workout

11:15 AM

Expo (Block 1)
30 mins

+

Networking (Block 1)/AMA with an IBM Campus Recruiter (Day 1)
30 mins

15 mins break - Day 1: Mat stretch workout

12:30 PM

Cloud - Industry Talks (Block 1)

Mono2Micro: An AI Powered Java Monolith to Microservices Transformer for

Emerging Technologies - Industry Talks (Block 1)

Decentralized Systems - Industry Talks (Block 1)

Software Engineering - Industry Talks

Big Data Systems - Papers (Block 1)

15 mins break - Day 1: Mobility Moves Workout

2:15 PM

Cloud-Native Java Made Easy with MicroProfile and JakartaEE (hands-on)

WebSphere Liberty (3 hours Workshop) (hands-on)

Emerging Technologies - Industry Talks (Block 2)

Decentralized Systems - Industry Talks (Block 2)

Software Engineering - Papers (Block 1)

Hands on with Db2 Graph (hands-on)

Workshop on Proactive AIOps through Digital Twins

15 mins break - Day 1: Bodyweight Functional Strength Workout

4:00 PM

Cognitive/AI Systems - Industry Talks (Block 1)

Emerging Technologies - Industry Talks (Block 3)

Decentralized Systems - Industry Talks (Block 3)

Natural Language Processing for Software Requirement Specifications

Intro into IBM Accelerator Catalog (hands-on)

5:30 PM

Tuesday

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Cloud

Cognitive/AI Systems

Emerging Technologies

Decentralized Systems

Big Data Systems

Privacy & Security

Quantum

9:30 AM

Welcome - Highlight for the day

10:00 AM



Keynote - Martin J. Fontaine: Towards pro-active cyber defense - research challenges

GUY JOURDAN, MARTIN FONTAINE

15 mins break - Day 2: Low Impact Cardio Workout

11:15 AM

Expo (Block 2)
30 mins

+

Networking (Block 2)
30 mins

15 mins break - Day 2: Stretch at your desk workout

12:30 PM

Cloud - Industry Talks (Block 2)

Cognitive/AI Systems - Papers (Block 1)

Emerging Technologies - Industry Talks (Block 4)

Building Kubernetes Operators in the Wild - going beyond just install and upgrade

Privacy & Security - Papers (Block 1)

15 mins break - Day 2: Mat stretch workout

2:15 PM

The 13th CASCON Workshop on Cloud Computing: Engineering AIOps

Cognitive/AI Systems - Short Papers (Block 1)

Emerging Technologies - Industry Talks (Block 5)

DevOps Workshop for Software Engineers (hands-on)

Build and Deploy Machine Learning Models with IBM Db2 (hands-on)

Privacy & Security - Short Papers (Block 1)

Towards Practical Quantum Applications using Hybrid Problem Solving Techniques Part 1

15 mins break - Day 2: Core Yoga workout

4:00 PM

Cognitive/AI Systems - Industry Talks (Block 2)

Emerging Technologies - Industry Talks (Block 6)

Building Secure, Resilient and Compliant Solutions on the IBM Cloud for Financial Services

5:30 PM

Wednesday

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Cloud

Cognitive/AI Systems

Emerging Technologies

Decentralized Systems

Big Data Systems

Quantum

Human Factors and Society

9:30 AM

Welcome - Highlight for the day

10:00 AM



Keynote - Ashkan Karbasfrooshan: The Paradox of Success

ANDREW LOVISOTTO, ASHKAN KARBASFROOSHAN

15 mins break - Day 3: Bodyweight Functional Strength Workout

11:15 AM

Expo (Block 3)
30 mins

+

Networking (Block 3)/AMA with an IBM Campus Recruiter (Day 3)/CASCONxEVOKE: Chat with us!
30 mins

15 mins break - Day 3: Low Impact Cardio Workout

12:30 PM

Cognitive/AI Systems - Papers (Block 2)

Emerging Technologies - Industry Talks (Block 7)

Decentralized Systems - Papers (Block 1)

Big Data Systems - Industry Talks (Block 1)

What will the transition to digital economy look like? Exploring future Skills, Jobs, and policies needed Post COVID (panel)

15 mins break - Day 3: Stretch at your desk workout

2:15 PM

5th Workshop on Advances in Open Runtimes and Cloud Performance Technologies (4.5 hours Workshop)

Build a chatbot that can play an ice cream guessing game using IBM Watson Assistant (hands-on)

Compliance by Design: Software Analytics and AIOps

Decentralized Systems - Short Papers (Block 1)

Let's Do This - Exploring Data Science and AI through Hands-on IBM Watson Workshop Part 1 (hands-on)

Towards Practical Quantum Applications using Hybrid Problem Solving Techniques Part 2

Human Factors and Society - Industry Talks (Block 1)

Day 3: Matsuri

4:00 PM

Automation, Control, and Analysis of Knowledge-intensive Processes

The IBM Cloud for Education and Academy (Including the Applications Lab and Learn@IBM)

5:30 PM

Thursday

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Cloud

Cognitive/AI Systems

Emerging Technologies

Decentralized Systems

Big Data Systems

Privacy & Security

Human Factors and Society

9:30 AM

Welcome - Highlight for the day

10:00 AM



Keynote - Krzysztof Czarnecki: How do we know this self-driving car is safe? Safety assurance of AI-enabled mobile robots

FARHANA ZULKERNINE, KRZYSZTOF CZARNECKI

15 mins break - Day 4: Mobility Moves Workout

11:15 AM

Awards + MIP

15 mins break - Day 4: Bodyweight Functional Strength Workout

12:30 PM

Cloud - Short Papers (Block 1)

Cognitive/AI Systems - Industry Talks (Block 3)

Emerging Technologies - Industry Talks (Block 8)

Software Techniques for Engineering Cyber-Physical Systems

Big Data Systems - Industry Talks (Block 2)

Privacy & Security - Industry Talks (Block 1)

Human Factors and Society - Industry Talks (Block 2)

15 mins break - Day 4: Low Impact Cardio Workout

2:15 PM

GitOps driven automation framework

Emerging applications of machine learning in modern data management

Financial observability triggering usage cost reduction (hands-on)

Software Techniques for Engineering Cyber-Physical Systems

Let's Do This - Exploring Data Science and AI through Hands-on IBM Watson Workshop Part 2 (hands-on)

Privacy & Security - Industry Talks (Block 2)

Community Service Learning / Work Integrated Learning

15 mins break

4:00 PM

5:30 PM

[DOWNLOAD CONFERENCE SCHEDULE](#)

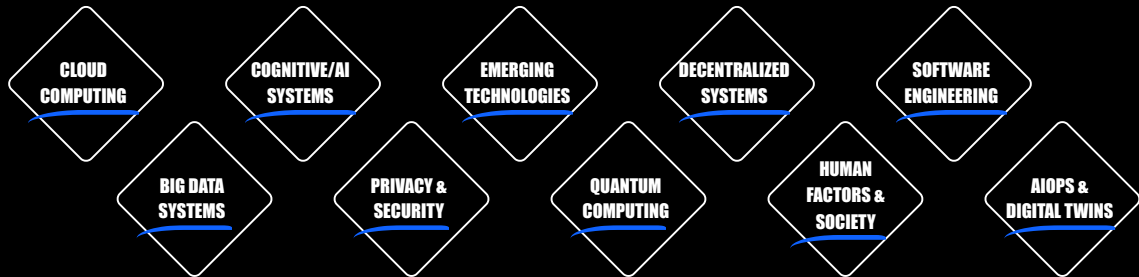
EVENT SCHEDULE

FILTER BY

DAY

TOPIC

FORMAT



Cloud Computing

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DATE	START	END	TITLE	SPEAKERS	FORMAT
MON	12:30	14:00	Cloud - Industry Talks (Block 1)	Marius Pirvu	Industry Talk
MON	12:30	13:00	Cloud Anatomy 101: Breaking down Cloud-native	Grace Jansen	Industry Talk
MON	13:00	13:30	Exploring Stateful Microservices in the Cloud Native World	Mary Grygleski	Industry Talk
MON	13:30	14:00	Challenges on auto-tuning cloud applications	Adalberto Junior, Daryl Maier, Don Bourne, Ivan Beschastnikh, Vijay Sundaresan	Industry Talk
MON	14:15	17:30	Cloud-Native Java Made Easy with MicroProfile and JakartaEE (hands-on)	Grace Jansen, Jamie Coleman, Mary Grygleski, Yk Chang	Workshop
TUE	12:30	14:00	Cloud - Industry Talks (Block 2)	Mark Stoodley	Industry Talk
TUE	12:30	13:00	Thriving in the cloud: Going beyond the 12 factors	Grace Jansen	Industry Talk
TUE	13:00	13:30	Gaze into IBM Hybrid cloud to Swift Build and Smart Deploy using Razeer toolchain	Shwetha Gopalakrishna, Sudhakar Seshagiri	Industry Talk
TUE	13:30	14:00	AI-Driven Closed-Loop Automation for Efficient Management of Cloud-Native Telecom/5G Workloads	Amandeep Singh, Mathews Thomas, Praveen Jayachandran, Sharath Prasad Krishna Prasad, Utpal Mangla	Industry Talk
TUE	14:15	17:30	The 13th CASCON Workshop on Cloud Computing: Engineering AIOps	Asaf Adi, Avi Yaeli, Grace Lewis, Ian Watts, Joe Wigglesworth, Joydeep Mukherjee, Khalid Ahmed, Marin Litoiu, Merve Unuvar, Rama K Akkiraju	Workshop

DATE	START	END	TITLE	SPEAKERS	FORMAT
WED	12:30	17:30	5th Workshop on Advances in Open Runtimes and Cloud Performance Technologies (4.5 hours Workshop)	Daryl Maier, Vijay Sundaresan	Workshop
THUR	12:30	14:00	Cloud - Short Papers (Block 1)	Guy Jourdan	Short Paper
THUR	12:30	12:50	Using IBM Watson Services to Process Video to Streamline Business Processes and Improve Customer Experience	Gary Faircloth, Rashmi Kulkarni, Sarah Packowski, Sharyn Richard	Short Paper
THUR	12:50	13:10	Towards Just-in-time compilation of SQL queries with OMR JitBuilder	Debajyoti Datta, Mark Stoodley, Suprio Ray	Short Paper
THUR	13:10	13:30	Viz23: Web Server for Visualization of Gene Expression and Locational Information	Andrew Hollar, Haley Greenyer, Hosna Jabbari, Luke Trinity, Ulrike Stege	Short Paper
THUR	14:15	15:45	GitOps driven automation framework	Carlos Santana, Hollis Chui, Larry Steck	Workshop

Cognitive/AI Systems

All times displayed are in Eastern Standard Time

DATE	START	END	TITLE	SPEAKERS	FORMAT
MON	12:30	15:45	Mono2Micro: An AI Powered Java Monolith to Microservices Transformer for WebSphere Liberty (3 hours Workshop) (hands-on)	Anu Ramamoorthy, Len Theivendra, Tiaoyu Wang	Workshop
MON	16:00	17:30	Cognitive/AI Systems - Industry Talks (Block 1)	Irwin D'Souza	Industry Talk
MON	16:00	16:30	Cognitive Software Delivery - Bringing Quality, Scale and Intelligence to our delivery pipelines	Kevin Smith	Industry Talk
MON	16:30	17:00	Robustness and Security of AI and the Dangerous Dismissal of Edge Cases	James Stewart	Industry Talk
MON	17:00	17:30	The Next Frontier for Data Security: Protecting Data in Use	Walid Rjaibi	Industry Talk
TUE	12:30	14:00	Cognitive/AI Systems - Papers (Block 1)	Kelly Lyons	Regular Paper
TUE	12:30	13:00	Text Classification for Predicting Multi-level Product Categories	Ayşe Başar, Beste Bulut, Deniz Yigit, Fahrettin F. Gonen, Hadi Jahanshahi, Mucahit Cevik, Ozan Ozyegen	Regular Paper
TUE	13:00	13:30	Toward understanding the COVID-19 impact on Data Science Innovation in Canada	Kelly Lyons, Michelle Alexopoulos	Regular Paper
TUE	13:30	14:00	Analyzing and Visualizing Twitter Conversations	Andrea Whittaker, Candelario Gutierrez Gutierrez, Denilson Barbosa, Eleni Stroulia, Joel Gehman, Katherine Mae Patenio, Lianne Lefsrud	Regular Paper
TUE	14:15	15:45	Cognitive/AI Systems - Short Papers (Block 1)	Francois Rivest	Short Paper
TUE	14:15	14:35	Identification of conserved and evolving RNA secondary structures in SARS-CoV-2 and related viruses	Alison Ziesel, Hosna Jabbari	Short Paper
TUE	14:35	14:55	Exploring Multi-View Perspectives on Deep Reinforcement Learning Agents for Embodied Object Navigation in Virtual Home Environments	Christian Muise, Sara Nabil, Victoria Armstrong, Xiaotian Liu	Short Paper
TUE	14:55	15:15	Exploring Decision Support Systems in Task Scheduling	Alexander Salgo, Francois Rivest, Jeremy Banks	Short Paper

DATE	START	END	TITLE	SPEAKERS	FORMAT
TUE	15:15	15:35	GPU Resource Scheduling Using CNN-based Deep Reinforcement Learning	Aijun An, Bon Ryu, Hossein Pourmodheji, Junfeng Liu, Xingye Fan, Yonggang Hu, Zana Rashidi	Short Paper
TUE	16:00	17:30	Cognitive/AI Systems - Industry Talks (Block 2)	Gita Koblents	Industry Talk
TUE	16:00	16:30	How York used SAVY, an AI Virtual Assistant to enhance the student experience and improve student service capabilities across the University	Nick Valentino, Patrick Thibaudeau, Vidur Kalive	Industry Talk
TUE	16:30	17:00	Large Language Models: A New Standard for Natural Language Understanding Tasks	Reza Fazeli	Industry Talk
TUE	17:00	17:30	Actionable Insights to Conversational Systems	Chayan Ray, Eniko Rozsa, Monisankar Das	Industry Talk
WED	12:30	14:00	Cognitive/AI Systems - Papers (Block 2)	Alex Thomo	Regular Paper
WED	12:30	13:00	Multi-label Video Categorization Using Visual and Audio Transcript Features	Adam Gariba, Andre Rosa, Jingmin Zhou, Mariah Martin Shein, Ruiqi Yu, Vida Movahedi	Regular Paper
WED	13:00	13:30	Time Series Forecasting for Patient Arrivals in Online Health Services	Aysun Bozanta, Mucahit Cevik, Syed Kazmi	Regular Paper
WED	13:30	14:00	Deep Learning Models and Techniques for Facial Emotion Recognition	Cameron Duffy, Hazem Abbas, Hossam Hassanein, Ian Pepin, Rachel Coreau	Regular Paper
WED	14:15	17:30	Build a chatbot that can play an ice cream guessing game using IBM Watson Assistant (hands-on)	Christopher Alfonso, Noam Karakowsky, Parth Suthar, Sarah Packowski	Workshop
THUR	12:30	14:00	Cognitive/AI Systems - Industry Talks (Block 3)	Ettore Tiotto	Industry Talk
THUR	12:30	13:00	Applying AI Maturity Framework in AI Apps	Nithin Mathew, Prarthana Manikoth Jayakumar, Shephil Philip, Sudhanshu Sar	Industry Talk
THUR	13:00	13:30	Hidden layers of dialogue systems	Mohamed Hanini	Industry Talk
THUR	13:30	14:00	Accelerating Climate Action with Artificial Intelligence	Alexander Koubaa	Industry Talk
THUR	14:15	17:30	Emerging applications of machine learning in modern data management	Amin Kamali, Bob Neugebauer, Calisto Zuzarte, Jarek Szlichta, Mitesh Vasa, Verena Kantere, Xiaohui Yu	Workshop

Emerging Technologies

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DATE	START	END	TITLE	SPEAKERS	FORMAT
MON	12:30	14:00	Emerging Technologies - Industry Talks (Block 1)	Andrew Lovisotto	Industry Talk
MON	12:30	13:00	Brain-Chips: The current & future of Neural Interfaces	Ananya Chadha	Industry Talk
MON	13:00	13:30	How HR tech is helping evolve people practices in business	Sally De Rosa	Industry Talk
MON	13:30	14:00	China's and Google's quantum supremacy – is quantum computing about to break cryptocurrency?	Victoria Riess	Industry Talk

DATE	START	END	TITLE	SPEAKERS	FORMAT
MON	14:15	15:45	Emerging Technologies - Industry Talks (Block 2)	Vijay Sundaresan	Industry Talk
MON	14:15	14:45	Coding a Business	Stuart Sherman	Industry Talk
MON	14:45	15:15	Leveraging innovation - how can tech innovators better contribute public sector goals?	Annalise Czerny	Industry Talk
MON	15:15	15:45	Network Effects = ASSET	Eva Lau	Industry Talk
MON	16:00	17:30	Emerging Technologies - Industry Talks (Block 3)	Robert Enenkel	Industry Talk
MON	16:00	16:30	Skills Based Hiring: What, Why Who	Alex Kaplan, Jake Hirsch-Allen	Industry Talk
MON	16:30	17:00	Transforming the way people shop through live-video commerce	Maggie Adhami-Boynton	Industry Talk
MON	17:00	17:30	Survival of the Digitally Fittest	Irene Zaguskin	Industry Talk
TUE	12:30	14:00	Emerging Technologies - Industry Talks (Block 4)	Don Bourne	Industry Talk
TUE	12:30	13:00	Governance Workflows – The Key to Building Successful Information Architectures	Kavita Biswas, Namit Kabra	Industry Talk
TUE	13:00	13:30	Beyond the Hype: Are you looking to implement AI Infused Solution into your existing Product?	Mamatha Venkatesh	Industry Talk
TUE	13:30	14:00	How to save the world without leaving your desk!	Jamie Coleman	Industry Talk
TUE	14:15	15:45	Emerging Technologies - Industry Talks (Block 5)	Allen Chan	Industry Talk
TUE	14:15	14:45	Exploring the Reactive Landscape	Mary Grygleski	Industry Talk
TUE	14:45	15:15	Equipping the Next Generation of Open-Source Developers	Jeff Cho, Karim Ali, Kathryn Kodama, Yk Chang	Industry Talk
TUE	15:15	15:45	Microservices architecture explained for everyone	Monica Tamboli	Industry Talk
TUE	16:00	17:30	Emerging Technologies - Industry Talks (Block 6)	Calisto Zuzarte	Industry Talk
TUE	16:00	16:30	How VCs Can Assess AI Opportunities	Neil Sahota	Industry Talk
TUE	16:30	17:00	Developer Advocacy Direct: Helping Teachers and students...and also your organization	Paul Austin	Industry Talk
TUE	17:00	17:30	Blockchain in political finance	William Schweitzer	Industry Talk
WED	12:30	14:00	Emerging Technologies - Industry Talks (Block 7)	Emily Jiang	Industry Talk
WED	12:30	13:00	Automate your operations for security, resiliency & performance	Don Bourne, Felix Wong, Leo Christy Jesuraj	Industry Talk
WED	13:00	13:30	Transform your operational lifecycle with automated AIOps	Arthur De Magalhaes	Industry Talk
WED	13:30	14:00	The State of Fintech in Canada	Luke DeHaas, Mashaal Memon	Industry Talk
WED	14:15	17:30	Compliance by Design: Software Analytics and AIOps	Alberto Giammaria, Andres Rodriguez Ishida, Chris Brealey, David Lopez, Kostas Kontogiannis, Marios Fokaefs, Marios-Stavros Grigoriou, Mike Wilson, Syed Waqas Hamdani	Workshop
THUR	12:30	14:00	Emerging Technologies - Industry Talks (Block 8)	Younes Manton	Industry Talk

DATE	START	END	TITLE	SPEAKERS	FORMAT
THUR	12:30	13:00	Accelerating XR'S Widespread Adoption: Enabling Synthetic Reality For Everyone	Aleksandr Borisov, Luis Ramirez	Industry Talk
THUR	13:00	13:30	Our path to eradicate a pandemic using self sovereign identity on the blockchain	Galya Westler	Industry Talk
THUR	13:30	14:00	Thinking Differently About Blockchain: Public, Private and Unbounded Blockchains	Sina Nazari	Industry Talk
THUR	14:15	15:45	Financial observability triggering usage cost reduction (hands-on)	Filipe Cesar, Gustavo Paraguassu, Matheus Bitencourt	Workshop

Decentralized Systems

All times displayed are in Eastern Standard Time

DATE	START	END	TITLE	SPEAKERS	FORMAT
MON	12:30	14:00	Decentralized Systems - Industry Talks (Block 1)	Derek Truong	Industry Talk
MON	12:30	13:00	The Quantum Era Is Now: A 360-Degree Look at Quantum Computing – From Canadian Policy to Commercialization	Alexander Condello, Allison Schwartz, Andrew King, Jennifer Houston, Murray Thom	Industry Talk
MON	13:00	13:30	Who owns the next internet?	Ryan Duffy	Industry Talk
MON	13:30	14:00	Simple tweaks to get the most out of your JVM	Jamie Coleman	Industry Talk
MON	14:15	15:45	Decentralized Systems - Industry Talks (Block 2)	Julian Wang	Industry Talk
MON	14:15	14:45	Distributed ownership on the blockchain as a means of capital acquisition	Axel Ali	Industry Talk
MON	14:45	15:15	What's common between Starfish, Apache, DAOs & Roman empire?	Mohd Shahnawaz	Industry Talk
MON	15:15	15:45	Dynamically Debug any Kubernetes Microservice	Stephen Northover	Industry Talk
MON	16:00	17:30	Decentralized Systems - Industry Talks (Block 3)	Aleksandar Micic	Industry Talk
MON	16:00	16:30	Polymesh - The Future of Securities	Graeme Moore	Industry Talk
MON	16:30	17:00	Creating a Participation Economy Through PropTech	Jordan Kostelac	Industry Talk
MON	17:00	17:30	Decentralized funding and ownership in the future of scientific research	Aleem Rehmtulla	Industry Talk
TUE	12:30	14:00	Building Kubernetes Operators in the Wild - going beyond just install and upgrade	Henry Nash, Martin Hickey	Workshop
TUE	14:15	17:30	DevOps Workshop for Software Engineers (hands-on)	John Rofrano	Workshop
WED	12:30	14:00	Decentralized Systems - Papers (Block 1)	Andriy Miranskyy	Regular Paper
WED	12:30	13:00	Automatic Event Categorizer for SIEM	Jeff Rusk, Kenneth Kent, Russell Couturier, S M Mozammel Hossain	Regular Paper

DATE	START	END	TITLE	SPEAKERS	FORMAT
WED	13:00	13:30	A Lightweight Code Storage Container for the Eclipse OMR Ahead-of-Time Compiler	Damian Diago D'monte, Georgiy Krylov, Gerhard Dueck, Kenneth Kent, Younes Manton	Regular Paper
WED	13:30	14:00	Process-Metrics Trends Analysis for Evaluating File-Level Error Proneness	Alberto Giammaria, Chris Brealey, Kostas Kontogiannis, Marios-Stavros Grigoriou, Ria Ria	Regular Paper
WED	14:15	15:45	Decentralized Systems - Short Papers (Block 1)	Gerhard Dueck	Short Paper
WED	14:15	14:35	Ahead-of-Time Compilation in Eclipse OMR on Example of WebAssembly	Daryl Maier, Georgiy Krylov, Gerhard Dueck, Kenneth Kent, Mark Thom, Petar Jelenkovic, Younes Manton	Short Paper
WED	14:35	14:55	Eclipse OMR Garbage Collection for Tracing JIT-based Virtual Machines	Aleksandar Micic, David Bremner, Joannah Nanjekye	Short Paper
WED	14:55	15:15	The Digital Core architecture for Hybrid Modernization	Charbel Safadi, Edwin Lau, Mehryar Maalem, Shahir Daya, Shashwat Pandey, Simon Kalechstein	Short Paper
WED	15:15	15:35	A Novel Technique for Control Flow Obfuscation in JVM Applications using InvokeDynamic with Native Bootstrapping	Akramul Azim, Bradley Wood	Short Paper
WED	16:00	17:30	Automation, Control, and Analysis of Knowledge-intensive Processes	Allen Chan, Arik Senderovich, Eric Yu, Hajo Reijers, Sebastian Carbajales	Workshop
THUR	12:30	15:45	Software Techniques for Engineering Cyber-Physical Systems	Aleem Alvi, Arno Jacobsen, Ashkan Rahimi-Kian, Daniel Amyot, Dimitris Lyras, Iluju Kiringa, John Mylopoulos, Kostas Kontogiannis, Marin Litoiu, Mohammad Zulkernine, Nikos Rassias, Santiago Gomez-Rosero, Tet Yeap, Yar Rouf	Workshop

Software Engineering

All times displayed are in Eastern Standard Time

DATE	START	END	TITLE	SPEAKERS	FORMAT
MON	12:30	14:00	Software Engineering - Industry Talks	Joe Wigglesworth	Industry Talk
MON	12:30	13:00	DeepDive into DevOps KPIS : Right Measure to Measure right	Prasanna Alur Mathada, Shwetha Gopalakrishna, Sridhi Bhagavan	Industry Talk
MON	13:00	13:30	Winning the Agile testing - the Automated way!	Hina Sharma, Rasika Vyawahare	Industry Talk
MON	13:30	14:00	Best practices for deploying applications in containers	Leo Christy Jesuraj	Industry Talk
MON	14:15	15:45	Software Engineering - Papers (Block 1)	Kenneth Kent	Regular Paper
MON	14:15	14:45	U Can't Inline This!	Andrew Craik, Cijie Xia, Erick Ochoa, J. Nelson Amaral, Karim Ali	Regular Paper
MON	14:45	15:15	Combining Domain Expert Knowledge and Machine Learning for the Identification of Error Prone Files	Alberto Giammaria, Chris Brealey, Kostas Kontogiannis, Marios-Stavros Grigoriou, Piyush Korlepara	Regular Paper
MON	15:15	15:45	Text classification on software requirements specifications using transformer models	Ayşe Başar, Aysun Bozanta, Derya Kici, Devang Parikh, Mucahit Cevik	Regular Paper
MON	16:00	17:30	Natural Language Processing for Software Requirement Specifications	Ayşe Başar, Devang Parikh, Fatma Basak Aydemir, Mucahit Cevik, Sallam Abualhaija, Savaş Yıldırım	Workshop

Big Data Systems

All times displayed are in Eastern Standard Time

DATE	START	END	TITLE	SPEAKERS	FORMAT
MON	12:30	14:00	Big Data Systems - Papers (Block 1)	Farhana Zulkernine	Regular Paper
MON	12:30	13:00	Query Predicate Selectivity Using Machine Learning In Db2®	Calisto Zuzarte, Liam Finnie, Mohamad Kalil, Mohammed Alhamid, Ronghao Yang, Vincent Corvinelli, Waikeat Tan	Regular Paper
MON	13:00	13:30	Lightweight Self-Adaptive Configuration Using Machine Learning	Reid Holmes, Rodrigo Araújo	Regular Paper
MON	13:30	14:00	A Unified Extensible Architecture for Efficient Distributed Analytics	Derek Eager, Dwight Makaroff, Noah Orensa	Regular Paper
MON	14:15	15:45	Hands on with Db2 Graph (hands-on)	Dan Snoddy, Tom Kolanko	Workshop
MON	16:00	17:30	Intro into IBM Accelerator Catalog (hands-on)	Monishkumar Sivakumar	Workshop
TUE	12:30	17:30	Build and Deploy Machine Learning Models with IBM Db2 (hands-on)	Adrian Mahjour, Amin Kamali, Ming-Pang Wei, Shaikh Quader	Workshop
WED	12:30	14:00	Big Data Systems - Industry Talks (Block 1)	Randy Giffen	Industry Talk
WED	12:30	13:00	Scaling ML in a large enterprise - trade-offs , challenge and how to making AI operate on human terms	Bob Blainey, Salah Sharieh	Industry Talk
WED	13:00	13:30	Automated Machine Learning with IBM AutoAI and Db2	Shaikh Quader	Industry Talk
WED	13:30	14:00	Creating Data-event Profiles for Optimizing Storage and Analytics of Streaming IoT Data	Farhana Zulkernine, Pete Nicholls, Sazia Mahfuz	Industry Talk
WED	14:15	17:30	Let's Do This - Exploring Data Science and AI through Hands-on IBM Watson Workshop Part 1 (hands-on)	Dennis Buttera	Workshop
THUR	12:30	14:00	Big Data Systems - Industry Talks (Block 2)	Randy Giffen	Industry Talk
THUR	12:30	13:00	Machine Learning and Artificial Intelligence for Domain Experts	Randy Giffen	Industry Talk
THUR	13:00	13:30	An AI-powered app to diagnose respiratory illnesses via coughing sounds	Ashley Mo, Emma Gui	Industry Talk
THUR	13:30	14:00	Repurposing drugs for HIV treatment using machine learning to scale up local production in Africa	Diba Dindoust	Industry Talk
THUR	14:15	17:30	Let's Do This - Exploring Data Science and AI through Hands-on IBM Watson Workshop Part 2 (hands-on)	Dennis Buttera	Workshop

Privacy & Security

All times displayed are in Eastern Standard Time

DATE	START	END	TITLE	SPEAKERS	FORMAT
TUE	12:30	14:00	Privacy & Security - Papers (Block 1)	Marios Fokaefs	Regular Paper
TUE	13:00	13:30	Hotfixing Misuses of Crypto APIs in Java Programs	Andrew Craik, Karim Ali, Kristen Newbury	Regular Paper
TUE	13:30	14:00	Failure prediction using machine learning in IBM WebSphere Liberty continuous integration environment	Akramul Azim, Kevin Smith, Md Asif Khan, Qasim Tauseef, Ramiro Liscano, Sylvain Garcon, Yk Chang	Regular Paper
TUE	14:15	15:45	Privacy & Security - Short Papers (Block 1)	Akramul Azim	Short Paper
TUE	14:15	14:35	Giffiar: A Framework to Generate Smart Contracts On the Fly	Fabiola Greve, Jauberth Abijaude, Levy Santiago	Short Paper
TUE	14:35	14:55	Outlier detection in longitudinal children growth measurements	Arooj Asrar, Catherine Birken, Celine Bourdon, Charles D.G. Keown-Stoneman, Elena M Comelli, Jonathon L. Maguire, Paraskevi Massara, Robert Bandsma	Short Paper
TUE	14:55	15:15	Building Blocks for Redundancy	Bill O'Farrell, Christopher Anand, Christopher Schankula, James You	Short Paper
TUE	15:15	15:35	Software Source Code Vulnerability Detection Using Advanced Deep Convolutional Neural Network	Akramul Azim, Mansour Alqarni	Short Paper
TUE	16:00	17:30	Building Secure, Resilient and Compliant Solutions on the IBM Cloud for Financial Services	Neil De Lima	Workshop
THUR	12:30	14:00	Privacy & Security - Industry Talks (Block 1)	John Steinbacher	Industry Talk
THUR	12:30	13:00	Public or Private? A Techno-Economic Analysis of Blockchain	Marios Fokaefs, Mohammadreza Rasolroveicy, Wejdene Haouari	Regular Paper
THUR	13:00	13:30	Blockchain Enterprise Applications: Opportunities and challenges	Mohamed EL KANDRI	Industry Talk
THUR	13:30	14:00	The future will be bimodal - exploring the opportunities and challenges.	Ritesh Kotak	Industry Talk
THUR	14:15	15:45	Privacy & Security - Industry Talks (Block 2)	Andrew Lovisotto	Industry Talk
THUR	14:15	14:45	Cyber Security	Robert Beggs, Terry Cutler	Industry Talk
THUR	14:45	15:15	Growth Hacking Your Cryptocurrency / NFT-Based Product	Reggie Tan	Industry Talk
THUR	15:15	15:45	CYBERSECURITY: An Introduction	Errol Hays	Industry Talk

Quantum Computing

All times displayed are in Eastern Standard Time

DATE	START	END	TITLE	SPEAKERS	FORMAT
TUE	12:30	17:30	Towards Practical Quantum Applications using Hybrid Problem Solving Techniques Part 1	Bob Sutor, Hausi Muller, Mehdi Bozzo-Rey, Prashanti Priya Angara, Robert Loreda, Sean Wagner, Ulrike Stege	Workshop
WED	12:30	17:30	Towards Practical Quantum Applications using Hybrid Problem Solving Techniques Part 2	Bob Sutor, Hausi Muller, Mehdi Bozzo-Rey, Prashanti Priya Angara, Robert Loreda, Sean Wagner, Ulrike Stege	Workshop

Human Factors and Society

All times displayed are in Eastern Standard Time

DATE	START	END	TITLE	SPEAKERS	FORMAT
WED	12:30	14:00	What will the transition to digital economy look like? Exploring future Skills, Jobs, and policies needed Post COVID (panel)	Aije Egwaikhide, Arvind Gupta, Catherine Amburgey, Kelly Lyons, Matthias Oschinski, Michelle Alexopoulos, Rosalie Wyonch, Utpal Mangla, Wendy Cukier	Workshop
WED	14:15	15:45	Human Factors and Society - Industry Talks (Block 1)	Yk Chang	Industry Talk
WED	14:15	14:45	Innovation Leadership in Polytechnics Beyond COVID: Sensemaking and Transformation in an Age of Uncertainty.	Steve Wilson	Industry Talk
WED	14:45	15:15	Inclusion by Design: The role of technology in fostering diversity and inclusion	Christine Andrew	Industry Talk
WED	15:15	15:45	Development Kit (VDK) for Social Impact: Building and Integrating for Purpose-Driven Innovation	Brock Warner, Jason Shim	Industry Talk
WED	16:00	17:30	The IBM Cloud for Education and Academy (Including the Applications Lab and Learn@IBM)	Andy Rindos, Lila Adamec, Xianqing Yu	Workshop
THUR	12:30	14:00	Human Factors and Society - Industry Talks (Block 2)	Ian Watts	Industry Talk
THUR	12:30	13:00	A methodical study to decipher the Human Factors focusing on smart cities and environment	Prasanna Alur Mathada, Shwetha Gopalakrishna, Srinii Bhagavan	Industry Talk
THUR	13:00	13:30	Intersecting Design and Technology For A Circular Future	Adara Hagman	Industry Talk
THUR	13:30	14:00	Safe pedestrian crossing based on movement patterns	Cesar Bravo, Desilda Toska	Industry Talk
THUR	14:15	15:45	Community Service Learning / Work Integrated Learning	Jennifer Collins, Kevin Holmes	Workshop

AIops and Digital Twins

All times displayed are in Eastern Standard Time

DATE	START	END	TITLE	SPEAKERS	FORMAT
MON	12:30	17:30	Workshop on Proactive AIops through Digital Twins	Arthur De Magalhaes, Cesar Araujo, Eric Erpenbach, Felipe Rivera, Gabriel Tamura, Hausi Muller, Ian Watts, Jorge Cardoso, Khalid Ahmed, Miguel Jimenez, Neil Boyette, Norha Villegas, Rama K Akkiraju	Workshop

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Regular Papers

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DATE	START	END	TITLE	SPEAKERS	TRACK
MON	12:30	14:00	Big Data Systems - Papers (Block 1)	Farhana Zulkernine	Big Data Systems
MON	12:30	13:00	Query Predicate Selectivity Using Machine Learning In Db2®	Calisto Zuzarte, Liam Finnie, Mohamad Kalil, Mohammed Alhamid, Ronghao Yang, Vincent Corvinelli, Waikate Tan	Big Data Systems
MON	13:00	13:30	Lightweight Self-Adaptive Configuration Using Machine Learning	Reid Holmes, Rodrigo Araújo	Big Data Systems
MON	13:30	14:00	A Unified Extensible Architecture for Efficient Distributed Analytics	Derek Eager, Dwight Makaroff, Noah Orensa	Big Data Systems
MON	14:15	15:45	Software Engineering - Papers (Block 1)	Kenneth Kent	Software Engineering
MON	14:15	14:45	U Can't Inline This!	Andrew Craik, Cijie Xia, Erick Ochoa, J. Nelson Amaral, Karim Ali	Software Engineering
MON	14:45	15:15	Combining Domain Expert Knowledge and Machine Learning for the Identification of Error Prone Files	Alberto Giammaria, Chris Brealey, Kostas Kontogjannis, Marios-Stavros Grigoriou, Piyush Korlepara	Software Engineering
MON	15:15	15:45	Text classification on software requirements specifications using transformer models	Ayşe Başar, Aysun Bozanta, Derya Kici, Devang Parikh, Mucahit Cevik	Software Engineering
TUE	12:30	14:00	Cognitive/AI Systems - Papers (Block 1)	Kelly Lyons	Cognitive/AI Systems
TUE	12:30	13:00	Text Classification for Predicting Multi-level Product Categories	Ayşe Başar, Beste Bulut, Deniz Yigit, Fahrettin F. Gonen, Hadi Jahanshahi, Mucahit Cevik, Ozan Ozyegen	Cognitive/AI Systems

DATE	START	END	TITLE	SPEAKERS	TRACK
TUE	13:00	13:30	Toward understanding the COVID-19 impact on Data Science Innovation in Canada	Kelly Lyons, Michelle Alexopoulos	Cognitive/AI Systems
TUE	13:30	14:00	Analyzing and Visualizing Twitter Conversations	Andrea Whittaker, Candelario Gutierrez Gutierrez, Denilson Barbosa, Eleni Stroulia, Joel Gehman, Katherine Mae Patenio, Lianne Lefsrud	Cognitive/AI Systems
TUE	12:30	14:00	Privacy & Security - Papers (Block 1)	Marios Fokaefs	Privacy & Security
TUE	13:00	13:30	Hotfixing Misuses of Crypto APIs in Java Programs	Andrew Craik, Karim Ali, Kristen Newbury	Privacy & Security
TUE	13:30	14:00	Failure prediction using machine learning in IBM WebSphere Liberty continuous integration environment	Akramul Azim, Kevin Smith, Md Asif Khan, Qasim Tauseef, Ramiro Liscano, Sylvain Garcon, Yk Chang	Privacy & Security
WED	12:30	14:00	Cognitive/AI Systems - Papers (Block 2)	Alex Thomo	Cognitive/AI Systems
WED	12:30	13:00	Multi-label Video Categorization Using Visual and Audio Transcript Features	Adam Gariba, Andre Rosa, Jingmin Zhou, Mariah Martin Shein, Ruiqi Yu, Vida Movahedi	Cognitive/AI Systems
WED	13:00	13:30	Time Series Forecasting for Patient Arrivals in Online Health Services	Aysun Bozanta, Mucahit Cevik, Syed Kazmi	Cognitive/AI Systems
WED	13:30	14:00	Deep Learning Models and Techniques for Facial Emotion Recognition	Cameron Duffy, Hazem Abbas, Hossam Hassanein, Ian Pepin, Rachel Coreau	Cognitive/AI Systems
WED	12:30	14:00	Decentralized Systems - Papers (Block 1)	Andriy Miranskyy	Decentralized Systems
WED	12:30	13:00	Automatic Event Categorizer for SIEM	Jeff Rusk, Kenneth Kent, Russell Couturier, S M Mozammel Hossain	Decentralized Systems
WED	13:00	13:30	A Lightweight Code Storage Container for the Eclipse OMR Ahead-of-Time Compiler	Damian Diago D'monte, Georgiy Krylov, Gerhard Dueck, Kenneth Kent, Younes Manton	Decentralized Systems
WED	13:30	14:00	Process-Metrics Trends Analysis for Evaluating File-Level Error Proneness	Alberto Giammaria, Chris Brealey, Kostas Kontogiannis, Marios-Stavros Grigoriou, Ria Ria	Decentralized Systems
THUR	12:30	13:00	Public or Private? A Techno-Economic Analysis of Blockchain	Marios Fokaefs, Mohammadreza Rasolrovey, Wejdene Haouari	Privacy & Security

Short Papers

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DATE	START	END	TITLE	SPEAKERS	TRACK
TUE	14:15	15:45	Cognitive/AI Systems - Short Papers (Block 1)	Francois Rivest	Cognitive/AI Systems
TUE	14:15	14:35	Identification of conserved and evolving RNA secondary structures in SARS-CoV-2 and related viruses	Alison Ziesel, Hosna Jabbari	Cognitive/AI Systems
TUE	14:35	14:55	Exploring Multi-View Perspectives on Deep Reinforcement Learning Agents for Embodied Object Navigation in Virtual Home Environments	Christian Muise, Sara Nabil, Victoria Armstrong, Xiaotian Liu	Cognitive/AI Systems

DATE	START	END	TITLE	SPEAKERS	TRACK
TUE	14:55	15:15	Exploring Decision Support Systems in Task Scheduling	Alexander Salgo, Francois Rivest, Jeremy Banks	Cognitive/AI Systems
TUE	15:15	15:35	GPU Resource Scheduling Using CNN-based Deep Reinforcement Learning	Aijun An, Bon Ryu, Hossein Pourmodheji, Junfeng Liu, Xingye Fan, Yonggang Hu, Zana Rashidi	Cognitive/AI Systems
TUE	14:15	15:45	Privacy & Security - Short Papers (Block 1)	Akramul Azim	Privacy & Security
TUE	14:15	14:35	Giffjar: A Framework to Generate Smart Contracts On the Fly	Fabiola Greve, Jauberth Abijaude, Levy Santiago	Privacy & Security
TUE	14:35	14:55	Outlier detection in longitudinal children growth measurements	Arooj Asrar, Catherine Birken, Celine Bourdon, Charles D.G. Keown-Stoneman, Elena M Comelli, Jonathon L. Maguire, Paraskevi Massara, Robert Bandsma	Privacy & Security
TUE	14:55	15:15	Building Blocks for Redundancy	Bill O'Farrell, Christopher Anand, Christopher Schankula, James You	Privacy & Security
TUE	15:15	15:35	Software Source Code Vulnerability Detection Using Advanced Deep Convolutional Neural Network	Akramul Azim, Mansour Alqarni	Privacy & Security
WED	14:15	15:45	Decentralized Systems - Short Papers (Block 1)	Gerhard Dueck	Decentralized Systems
WED	14:15	14:35	Ahead-of-Time Compilation in Eclipse OMR on Example of WebAssembly	Daryl Maier, Georgiy Krylov, Gerhard Dueck, Kenneth Kent, Mark Thom, Petar Jelenkovic, Younes Manton	Decentralized Systems
WED	14:35	14:55	Eclipse OMR Garbage Collection for Tracing JIT-based Virtual Machines	Aleksandar Micic, David Bremner, Joannah Nanjeyke	Decentralized Systems
WED	14:55	15:15	The Digital Core architecture for Hybrid Modernization	Charbel Safadi, Edwin Lau, Mehryar Maalem, Shahir Daya, Shashwat Pandey, Simon Kalechstein	Decentralized Systems
WED	15:15	15:35	A Novel Technique for Control Flow Obfuscation in JVM Applications using InvokeDynamic with Native Bootstrapping	Akramul Azim, Bradley Wood	Decentralized Systems
THUR	12:30	14:00	Cloud - Short Papers (Block 1)	Guy Jourdan	Cloud
THUR	12:30	12:50	Using IBM Watson Services to Process Video to Streamline Business Processes and Improve Customer Experience	Gary Faircloth, Rashmi Kulkarni, Sarah Packowski, Sharyn Richard	Cloud
THUR	12:50	13:10	Towards Just-in-time compilation of SQL queries with OMR JitBuilder	Debajoti Datta, Mark Stoodley, Suprio Ray	Cloud
THUR	13:10	13:30	Viz23: Web Server for Visualization of Gene Expression and Locational Information	Andrew Hollar, Haley Greenyer, Hosna Jabbari, Luke Trinity, Ulrike Stege	Cloud

Industry Talks

All times displayed are in Eastern Standard Time

DATE	START	END	TITLE	SPEAKERS	TRACK
MON	12:30	14:00	Cloud - Industry Talks (Block 1)	Marius Pirvu	Cloud

DATE	START	END	TITLE	SPEAKERS	TRACK
MON	12:30	13:00	Cloud Anatomy 101: Breaking down Cloud-native	Grace Jansen	Cloud
MON	13:00	13:30	Exploring Stateful Microservices in the Cloud Native World	Mary Grygleski	Cloud
MON	13:30	14:00	Challenges on auto-tuning cloud applications	Adalberto Junior, Daryl Maier, Don Bourne, Ivan Beschastnikh, Vijay Sundaresan	Cloud
MON	16:00	17:30	Cognitive/AI Systems - Industry Talks (Block 1)	Irwin D'Souza	Cognitive/AI Systems
MON	16:00	16:30	Cognitive Software Delivery - Bringing Quality, Scale and Intelligence to our delivery pipelines	Kevin Smith	Cognitive/AI Systems
MON	16:30	17:00	Robustness and Security of AI and the Dangerous Dismissal of Edge Cases	James Stewart	Cognitive/AI Systems
MON	17:00	17:30	The Next Frontier for Data Security: Protecting Data in Use	Walid Rjaibi	Cognitive/AI Systems
MON	12:30	14:00	Decentralized Systems - Industry Talks (Block 1)	Derek Truong	Decentralized Systems
MON	12:30	13:00	The Quantum Era Is Now: A 360-Degree Look at Quantum Computing – From Canadian Policy to Commercialization	Alexander Condello, Allison Schwartz, Andrew King, Jennifer Houston, Murray Thom	Decentralized Systems
MON	13:00	13:30	Who owns the next internet?	Ryan Duffy	Decentralized Systems
MON	13:30	14:00	Simple tweaks to get the most out of your JVM	Jamie Coleman	Decentralized Systems
MON	14:15	15:45	Decentralized Systems - Industry Talks (Block 2)	Julian Wang	Decentralized Systems
MON	14:15	14:45	Distributed ownership on the blockchain as a means of capital acquisition	Axel Ali	Decentralized Systems
MON	14:45	15:15	What's common between Starfish, Apache, DAOs & Roman empire?	Mohd Shahnawaz	Decentralized Systems
MON	15:15	15:45	Dynamically Debug any Kubernetes Microservice	Stephen Northover	Decentralized Systems
MON	16:00	17:30	Decentralized Systems - Industry Talks (Block 3)	Aleksandar Micic	Decentralized Systems
MON	16:00	16:30	Polymesh - The Future of Securities	Graeme Moore	Decentralized Systems
MON	16:30	17:00	Creating a Participation Economy Through PropTech	Jordan Kostelac	Decentralized Systems
MON	17:00	17:30	Decentralized funding and ownership in the future of scientific research	Aleem Rehtulla	Decentralized Systems
MON	12:30	14:00	Emerging Technologies - Industry Talks (Block 1)	Andrew Lovisotto	Emerging Technologies

DATE	START	END	TITLE	SPEAKERS	TRACK
MON	12:30	13:00	Brain-Chips: The current & future of Neural Interfaces	Ananya Chadha	Emerging Technologies
MON	13:00	13:30	How HR tech is helping evolve people practices in business	Sally De Rosa	Emerging Technologies
MON	13:30	14:00	China's and Google's quantum supremacy – is quantum computing about to break cryptocurrency?	Victoria Riess	Emerging Technologies
MON	14:15	15:45	Emerging Technologies - Industry Talks (Block 2)	Vijay Sundaresan	Emerging Technologies
MON	14:15	14:45	Coding a Business	Stuart Sherman	Emerging Technologies
MON	14:45	15:15	Leveraging innovation - how can tech innovators better contribute public sector goals?	Annalise Czerny	Emerging Technologies
MON	15:15	15:45	Network Effects = ASSET	Eva Lau	Emerging Technologies
MON	16:00	17:30	Emerging Technologies - Industry Talks (Block 3)	Robert Enenkel	Emerging Technologies
MON	16:00	16:30	Skills Based Hiring: What, Why Who	Alex Kaplan, Jake Hirsch-Allen	Emerging Technologies
MON	16:30	17:00	Transforming the way people shop through live-video commerce	Maggie Adhami-Boynton	Emerging Technologies
MON	17:00	17:30	Survival of the Digitally Fittest	Irene Zaguskin	Emerging Technologies
MON	12:30	14:00	Software Engineering - Industry Talks	Joe Wigglesworth	Software Engineering
MON	12:30	13:00	DeepDive into DevOps KPIS : Right Measure to Measure right	Prasanna Alur Mathada, Shwetha Gopalakrishna, Srinu Bhagavan	Software Engineering
MON	13:00	13:30	Winning the Agile testing - the Automated way!	Hina Sharma, Rasika Vyawahare	Software Engineering
MON	13:30	14:00	Best practices for deploying applications in containers	Leo Christy Jesuraj	Software Engineering
TUE	12:30	14:00	Cloud - Industry Talks (Block 2)	Mark Stoodley	Cloud
TUE	12:30	13:00	Thriving in the cloud: Going beyond the 12 factors	Grace Jansen	Cloud
TUE	13:00	13:30	Gaze into IBM Hybrid cloud to Swift Build and Smart Deploy using Razeer toolchain	Shwetha Gopalakrishna, Sudhakar Seshagiri	Cloud
TUE	13:30	14:00	AI-Driven Closed-Loop Automation for Efficient Management of Cloud-Native Telecom/5G Workloads	Amandeep Singh, Mathews Thomas, Praveen Jayachandran, Sharath Prasad Krishna Prasad, Utpal Mangla	Cloud
TUE	16:00	17:30	Cognitive/AI Systems - Industry Talks (Block 2)	Gita Koblients	Cognitive/AI Systems

DATE	START	END	TITLE	SPEAKERS	TRACK
TUE	16:00	16:30	How York used SAVY, an AI Virtual Assistant to enhance the student experience and improve student service capabilities across the University	Nick Valentino, Patrick Thibaudeau, Vidur Kalive	Cognitive/AI Systems
TUE	16:30	17:00	Large Language Models: A New Standard for Natural Language Understanding Tasks	Reza Fazeli	Cognitive/AI Systems
TUE	17:00	17:30	Actionable Insights to Conversational Systems	Chayan Ray, Eniko Rozsa, Monisankar Das	Cognitive/AI Systems
TUE	12:30	14:00	Emerging Technologies - Industry Talks (Block 4)	Don Bourne	Emerging Technologies
TUE	12:30	13:00	Governance Workflows — The Key to Building Successful Information Architectures	Kavita Biswas, Namit Kabra	Emerging Technologies
TUE	13:00	13:30	Beyond the Hype: Are you looking to implement AI Infused Solution into your existing Product?	Mamatha Venkatesh	Emerging Technologies
TUE	13:30	14:00	How to save the world without leaving your desk!	Jamie Coleman	Emerging Technologies
TUE	14:15	15:45	Emerging Technologies - Industry Talks (Block 5)	Allen Chan	Emerging Technologies
TUE	14:15	14:45	Exploring the Reactive Landscape	Mary Grygleski	Emerging Technologies
TUE	14:45	15:15	Equipping the Next Generation of Open-Source Developers	Jeff Cho, Karim Ali, Kathryn Kodama, Yk Chang	Emerging Technologies
TUE	15:15	15:45	Microservices architecture explained for everyone	Monica Tamboli	Emerging Technologies
TUE	16:00	17:30	Emerging Technologies - Industry Talks (Block 6)	Calisto Zuzarte	Emerging Technologies
TUE	16:00	16:30	How VCs Can Assess AI Opportunities	Neil Sahota	Emerging Technologies
TUE	16:30	17:00	Developer Advocacy Direct: Helping Teachers and students...and also your organization	Paul Austin	Emerging Technologies
TUE	17:00	17:30	Blockchain in political finance	William Schweitzer	Emerging Technologies
WED	12:30	14:00	Big Data Systems - Industry Talks (Block 1)	Randy Giffen	Big Data Systems
WED	12:30	13:00	Scaling ML in a large enterprise - trade-offs , challenge and how to making AI operate on human terms	Bob Blainey, Salah Sharieh	Big Data Systems
WED	13:00	13:30	Automated Machine Learning with IBM AutoAI and Db2	Shaikh Quader	Big Data Systems
WED	13:30	14:00	Creating Data-event Profiles for Optimizing Storage and Analytics of Streaming IoT Data	Farhana Zulkernine, Pete Nicholls, Sazia Mahfuz	Big Data Systems
WED	12:30	14:00	Emerging Technologies - Industry Talks (Block 7)	Emily Jiang	Emerging Technologies

DATE	START	END	TITLE	SPEAKERS	TRACK
WED	12:30	13:00	Automate your operations for security, resiliency & performance	Don Bourne, Felix Wong, Leo Christy Jesuraj	Emerging Technologies
WED	13:00	13:30	Transform your operational lifecycle with automated AIOps	Arthur De Magalhaes	Emerging Technologies
WED	13:30	14:00	The State of Fintech in Canada	Luke DeHaas, Mashaal Memon	Emerging Technologies
WED	14:15	15:45	Human Factors and Society - Industry Talks (Block 1)	Yk Chang	Human Factors and Society
WED	14:15	14:45	Innovation Leadership in Polytechnics Beyond COVID: Sensemaking and Transformation in an Age of Uncertainty.	Steve Wilson	Human Factors and Society
WED	14:45	15:15	Inclusion by Design: The role of technology in fostering diversity and inclusion	Christine Andrew	Human Factors and Society
WED	15:15	15:45	Development Kit (VDK) for Social Impact: Building and Integrating for Purpose-Driven Innovation	Brock Warner, Jason Shim	Human Factors and Society
THUR	12:30	14:00	Big Data Systems - Industry Talks (Block 2)	Randy Giffen	Big Data Systems
THUR	12:30	13:00	Machine Learning and Artificial Intelligence for Domain Experts	Randy Giffen	Big Data Systems
THUR	13:00	13:30	An AI-powered app to diagnose respiratory illnesses via coughing sounds	Ashley Mo, Emma Gui	Big Data Systems
THUR	13:30	14:00	Repurposing drugs for HIV treatment using machine learning to scale up local production in Africa	Diba Dindoust	Big Data Systems
THUR	12:30	14:00	Cognitive/AI Systems - Industry Talks (Block 3)	Ettore Tiotto	Cognitive/AI Systems
THUR	12:30	13:00	Applying AI Maturity Framework in AI Apps	Nithin Mathew, Prarthana Manikoth Jayakumar, Shephil Philip, Sudhanshu Sar	Cognitive/AI Systems
THUR	13:00	13:30	Hidden layers of dialogue systems	Mohamed Hanini	Cognitive/AI Systems
THUR	13:30	14:00	Accelerating Climate Action with Artificial Intelligence	Alexander Koubaa	Cognitive/AI Systems
THUR	12:30	14:00	Emerging Technologies - Industry Talks (Block B)	Younes Manton	Emerging Technologies
THUR	12:30	13:00	Accelerating XR'S Widespread Adoption: Enabling Synthetic Reality For Everyone	Aleksandr Borisov, Luis Ramirez	Emerging Technologies
THUR	13:00	13:30	Our path to eradicate a pandemic using self sovereign identity on the blockchain	Galya Westler	Emerging Technologies
THUR	13:30	14:00	Thinking Differently About Blockchain: Public, Private and Unbounded Blockchains	Sina Nazari	Emerging Technologies

DATE	START	END	TITLE	SPEAKERS	TRACK
THUR	12:30	14:00	Human Factors and Society - Industry Talks (Block 2)	Ian Watts	Human Factors and Society
THUR	12:30	13:00	A methodical study to decipher the Human Factors focusing on smart cities and environment	Prasanna Alur Mathada, Shwetha Gopalakrishna, Srinu Bhagavan	Human Factors and Society
THUR	13:00	13:30	Intersecting Design and Technology For A Circular Future	Adara Hagman	Human Factors and Society
THUR	13:30	14:00	Safe pedestrian crossing based on movement patterns	Cesar Bravo, Desilda Toska	Human Factors and Society
THUR	12:30	14:00	Privacy & Security - Industry Talks (Block 1)	John Steinbacher	Privacy & Security
THUR	13:00	13:30	Blockchain Enterprise Applications: Opportunities and challenges	Mohamed EL KANDRI	Privacy & Security
THUR	13:30	14:00	The future will be bimodal - exploring the opportunities and challenges.	Ritesh Kotak	Privacy & Security
THUR	14:15	15:45	Privacy & Security - Industry Talks (Block 2)	Andrew Lovisotto	Privacy & Security
THUR	14:15	14:45	Cyber Security	Robert Beggs, Terry Cutler	Privacy & Security
THUR	14:45	15:15	Growth Hacking Your Cryptocurrency / NFT-Based Product	Reggie Tan	Privacy & Security
THUR	15:15	15:45	CYBERSECURITY: An Introduction	Errol Hays	Privacy & Security

Workshops

All times displayed are in Eastern Standard Time

DATE	START	END	TITLE	SPEAKERS	TRACK
MON	12:30	17:30	Workshop on Proactive AIOps through Digital Twins	Arthur De Magalhaes, Cesar Araujo, Eric Erpenbach, Felipe Rivera, Gabriel Tamura, Hausi Muller, Ian Watts, Jorge Cardoso, Khalid Ahmed, Miguel Jimenez, Neil Boyette, Norha Villegas, Rama K Akkiraju	AI Operations and Digital Twins
MON	14:15	15:45	Hands on with Db2 Graph (hands-on)	Dan Snoddy, Tom Kolanko	Big Data Systems
MON	16:00	17:30	Intro into IBM Accelerator Catalog (hands-on)	Monishkumar Sivakumar	Big Data Systems

DATE	START	END	TITLE	SPEAKERS	TRACK
MON	14:15	17:30	Cloud-Native Java Made Easy with MicroProfile and JakartaEE (hands-on)	Grace Jansen, Jamie Coleman, Mary Grygleski, Yk Chang	Cloud
MON	12:30	15:45	Mono2Micro: An AI Powered Java Monolith to Microservices Transformer for WebSphere Liberty (3 hours Workshop) (hands-on)	Anu Ramamoorthy, Len Theivendra, Tiaoyu Wang	Cognitive/AI Systems
MON	16:00	17:30	Natural Language Processing for Software Requirement Specifications	Ayşe Başar, Devang Parikh, Fatma Basak Aydemir, Mucahit Cevik, Sallam Abualhaija, Savaş Yıldırım	Software Engineering
TUE	12:30	17:30	Build and Deploy Machine Learning Models with IBM Db2 (hands-on)	Adrian Mahjour, Amin Kamali, Ming-Pang Wei, Shaikh Quader	Big Data Systems
TUE	14:15	17:30	The 13th CASCON Workshop on Cloud Computing: Engineering AIOps	Asaf Adi, Avi Yaeli, Grace Lewis, Ian Watts, Joe Wigglesworth, Joydeep Mukherjee, Khalid Ahmed, Marin Litoiu, Merve Unuvar, Rama K Akkiraju	Cloud
TUE	12:30	14:00	Building Kubernetes Operators in the Wild - going beyond just install and upgrade	Henry Nash, Martin Hickey	Decentralized Systems
TUE	14:15	17:30	DevOps Workshop for Software Engineers (hands-on)	John Rofrano	Decentralized Systems
TUE	16:00	17:30	Building Secure, Resilient and Compliant Solutions on the IBM Cloud for Financial Services	Neil De Lima	Privacy & Security
TUE	12:30	17:30	Towards Practical Quantum Applications using Hybrid Problem Solving Techniques Part 1	Bob Sutor, Hausi Muller, Mehdi Bozzo-Rey, Prashanti Priya Angara, Robert Loredo, Sean Wagner, Ulrike Stege	Quantum
WED	14:15	17:30	Let's Do This - Exploring Data Science and AI through Hands-on IBM Watson Workshop Part 1 (hands-on)	Dennis Buttera	Big Data Systems
WED	12:30	17:30	5th Workshop on Advances in Open Runtimes and Cloud Performance Technologies (4.5 hours Workshop)	Daryl Maier, Vijay Sundaresan	Cloud
WED	14:15	17:30	Build a chatbot that can play an ice cream guessing game using IBM Watson Assistant (hands-on)	Christopher Alfonso, Noam Karakowsky, Parth Suthar, Sarah Packowski	Cognitive/AI Systems
WED	16:00	17:30	Automation, Control, and Analysis of Knowledge-intensive Processes	Allen Chan, Arik Senderovich, Eric Yu, Hajo Reijers, Sebastian Carbajales	Decentralized Systems
WED	14:15	17:30	Compliance by Design: Software Analytics and AIOps	Alberto Giammaria, Andres Rodriguez Ishida, Chris Brealey, David Lopez, Kostas Kontogiannis, Marios Fokaefs, Marios-Stavros Grigoriou, Mike Wilson, Syed Waqas Hamdani	Emerging Technologies
WED	12:30	14:00	What will the transition to digital economy look like? Exploring future Skills, Jobs, and policies needed Post COVID (panel)	Aije Egwaikhide, Arvind Gupta, Catherine Amburgey, Kelly Lyons, Matthias Oschinski, Michelle Alexopoulos, Rosalie Wyonch, Utpal Mangla, Wendy Cukier	Human Factors and Society
WED	16:00	17:30	The IBM Cloud for Education and Academy (Including the Applications Lab and Learn@IBM)	Andy Rindos, Lila Adamec, Xianqing Yu	Human Factors and Society
WED	12:30	17:30	Towards Practical Quantum Applications using Hybrid Problem Solving Techniques Part 2	Bob Sutor, Hausi Muller, Mehdi Bozzo-Rey, Prashanti Priya Angara, Robert Loredo, Sean Wagner, Ulrike Stege	Quantum
THUR	14:15	17:30	Let's Do This - Exploring Data Science and AI through Hands-on IBM Watson Workshop Part 2 (hands-on)	Dennis Buttera	Big Data Systems
THUR	14:15	15:45	GitOps driven automation framework	Carlos Santana, Hollis Chui, Larry Steck	Cloud
THUR	14:15	17:30	Emerging applications of machine learning in modern data management	Amin Kamali, Bob Neugebauer, Calisto Zuzarte, Jarek Szlichta, Mitesh Vasa, Verena Kantere, Xiaohui Yu	Cognitive/AI Systems

DATE	START	END	TITLE	SPEAKERS	TRACK
THUR	12:30	15:45	Software Techniques for Engineering Cyber-Physical Systems	Aleem Alvi, Arno Jacobsen, Ashkan Rahimi-Kian, Daniel Amyot, Dimitris Lyras, Iluju Kiringa, John Mylopoulos, Kostas Kontogiannis, Marin Litoiu, Mohammad Zulkernine, Nikos Rassias, Santiago Gomez-Rosero, Tet Yeap, Yar Rouf	Decentralized Systems
THUR	14:15	15:45	Financial observability triggering usage cost reduction (hands-on)	Filipe Cesar, Gustavo Paraguassu, Matheus Bitencourt	Emerging Technologies
THUR	14:15	15:45	Community Service Learning / Work Integrated Learning	Jennifer Collins, Kevin Holmes	Human Factors and Society

Expo

All times displayed are in Eastern Standard Time

DATE	START	END	TITLE	SPEAKERS
MON	11:15	11:45	Expo (Block 1)	
MON	11:15	11:45	Classifying Lock Contention Performance for Java Intrinsic Locks	Akramul Azim, Joseph Robertson, Md. Nahid Ebna Hasan Khan, Ramiro Liscano, Vijay Sundaresan, Yk Chang
MON	11:15	11:45	Probabilistic Data Cleansing for Structured Data	Albert Maier, James Miller, Omar Al-Shamali, Remus Lazar, Shaikh Quader, Yannick Saillet
MON	11:15	11:45	Combining Domain Expert Knowledge and Machine Learning for the Identification of Error Prone Files	Alberto Giammaria, Chris Brealey, Kostas Kontogiannis, Marios-Stavros Grigoriou, Piyush Korlepara
MON	11:15	11:45	UNIT: An Intuitive Language for Scientific Computations with Units	Ali Kariapper, Christopher Schankula, Lucas Dutton, Stefan Janovjak
MON	11:15	11:45	Making existing software quantum-safe	Andriy Miranskyy, Greg Stager, John Peck, Lei Zhang, Walid Rjaibi
MON	11:15	11:45	An Extensive Comparison of Systems for Entity Extraction from Log Files	Anubhav Chhabra, Guy Jourdan, Paula Branco
MON	11:15	11:45	Adaptive Data Partitioning via Deep Reinforcement Learning	Calisto Zuzarte, Daniel Zilio, Vincent Corvinelli, Xiaohui Yu, Yueting Chen
MON	11:15	11:45	Embedding based Resource Recommendation in Social Coding Platforms	Ebrahim Bagheri, Jason Adelman, Kuan Feng, Morteza Zihayat, Roohollah Etemadi
MON	11:15	11:45	Auto-scaler as a Service for Private/Public Cloud Deployments	Eugen Postea, Ian Watts, Joe Wigglesworth, Joydeep Mukherjee, Marin Litoiu, Radu Mateescu, Yar Rouf
MON	11:15	11:45	Designing Run-time Evolution for Dependable and Resilient Cyber-Physical Systems Using Digital Twins	Felipe Rivera, Gabriel Tamura, Hausi Muller, Miguel Jimenez, Norha Villegas
MON	11:15	11:45	Is Late Propagation a Harmful Code Clone Evolutionary Pattern? An Empirical Study	Foutse Khomh, Osama Ehsan, Ying Zou
MON	11:15	11:45	MicroJIT: So Far and the Path Forward	Harpreet Kaur, Kenneth Kent, Marius Pirvu, Scott Young, Shubham Verma
MON	11:15	11:45	Engineering Adaptive Software Systems Using Open-source Runtime Technologies	Ladan Tahvildari, Mark Stoodley, Mingyang Xu, Ryan Liu
MON	11:15	11:45	BlockCompass- Longitudinal Benchmark Tool to Evaluate the Performance of Different Blockchain Platforms with Different Consensus Protocols	Marios Fokaefs, Mohammadreza Rasolroveicy, Wejdene Haouari
TUE	11:15	11:45	Expo (Block 2)	

DATE	START	END	TITLE	SPEAKERS
TUE	11:15	11:45	Machine Learning Driven Resource Optimization for Database Queries	Ahnaf Baig, Andrew Jaramillo, David Kalmuk, Manos Papagelis, Marin Litoiu, Piotr Mierzejewski, Shaikh Quader, Sumona Mukhopadhyay, Yonis Abokar
TUE	11:15	11:45	From legal contracts to smart contracts: An Xtext editor for Symboleo with a code generator for Hyperledger Fabric	Aidin Rasti, Daniel Amyot, John Mylopoulos
TUE	11:15	11:45	Multiple Pedestrian Tracking using Elastic Distributed Inference in Watson Machine Learning Accelerator	Aijun An, Amir Asif, Hossein Pourmodheji, Junfeng Liu, Mufleh Al-Shatnawi, Yonggang Hu
TUE	11:15	11:45	Process-Metrics Based Identification of Error Prone Files	Alberto Giammaria, Chris Brealey, Kostas Kontogiannis, Marios-Stavros Grigoriou
TUE	11:15	11:45	Reducing JIT compilation overheads to improve JVM performance in the cloud	Alexey Khrabrov, Eyal De Lara, Marius Pirvu, Vijay Sundaresan
TUE	11:15	11:45	Workload-driven query planning and optimization using machine learning	Amin Kamali, Brandon Frenedo, Calisto Zuzarte, Ning Wang, Steve Donoghue, Verena Kantere, Vincent Corvinelli
TUE	11:15	11:45	Coconut: Paying Down Technical Debt	Bill O'Farrell, Christopher Anand, Christopher Schankula, Curtis d'Alves, Larry Yao, Nhan Thai, Robert Enekel, Wolfram Kahl
TUE	11:15	11:45	API creation and testing made easy with IBM API Connect	Biniam Admikew, Candy Ng, Cassandra Menshouse, Hithesh Peddamekala, Ibrahim Manjra, Ivy Ho, Jisoo Lee, Nora Abdelgadir, Peter El-Koreh, Siddhi Pai, Swetha Sridharan, Victor Matthews
TUE	11:15	11:45	Trade-off Analysis Tool for Microservice Decompositions	Cindy High, Debasish Banerjee, Evelien Boerstra, John Ahn, Julia Rubin, Len Theivendra, Yk Chang
TUE	11:15	11:45	Optimized arrayCopy Implementation in Eclipse OMR-OpenJ9 for Improved Runtime Performance on AArch64	Daryl Maier, Gerhard Dueck, Kazuhiro Konno, Kenneth Kent, Siri Sahithi Ponangi
TUE	11:15	11:45	Enabling rapid development of cloud-native Java applications for enterprises	Eric Lau, Kathryn Kodama, Yk Chang
TUE	11:15	11:45	An Empirical Study on Pattern Reconstruction for Optimal Storage of Big Data	Farhana Zulkernine, Pete Nicholls, Sazia Mahfuz
TUE	11:15	11:45	COVID-19 Malicious Domain Names Classification	Guy Jourdan, Herna Viktor, Paul Mvula, Paula Branco
TUE	11:15	11:45	AI ethics: From top-down to bottom-up	Heather Hagerty, Richard Walls, Sara Elsharawy, Sarah Packowski
WED	11:15	11:45	Expo (Block 3)	
WED	11:15	11:45	Extending OMR with Explicit and Automatic Runtime SIMD/GPU Parallelization	Akihiro Hayashi, Gita Koblents, Kazuaki Ishizaki, Tong Zhou, Vivek Sarkar
WED	11:15	11:45	Failure prediction of test suites in continuous integration environments using ML algorithms	Akrumul Azim, Gkerta Seferi, Kevin Smith, Md Asif Khan, Qasim Tauseef, Ramiro Liscano, Yk Chang
WED	11:15	11:45	Exploring Poly1305 and ChaCha20 Optimization	Akshay Kumar Arumugasamy, Bill O'Farrell, Christopher Anand, Pesara Amarasekera, Steven Gonder
WED	11:15	11:45	Convolution Neural Network for Heart Rate Monitoring with Smartphone	Amtul Haq Ayesha, Donghao Qiao, Farhana Zulkernine
WED	11:15	11:45	Anomaly Detection in a Large-scale Cloud Platform	Andriy Miranskyy, John Steinbacher, Lei Zhang, Mohammad Saiful Islam, Rolf Lear, Tony Erwin, William Pourmajidi
WED	11:15	11:45	Graph Representation Learning for Queries	Calisto Zuzarte, Connor Henderson, Jarek Szlichta, Parke Godfrey, Piotr Mierzejewski, Vincent Corvinelli
WED	11:15	11:45	Multi-Modal Registration Techniques for Non-Contact Neonatal Patient Monitoring	Daniel Kyrolos, James Green, Randy Giffen, Yasmina Souley Dosso, Zein Hajj-Ali
WED	11:15	11:45	Adding SIMD Support to Improve Performance of Eclipse OpenJ9 on the AArch64 Platform	Daryl Maier, Kazuhiro Konno, Kenneth Kent, Md Alvee Noor
WED	11:15	11:45	Enhancing Performance Bug Prediction Using Performance Anti-Patterns	Derek Truong, Guoliang Zhao, Safwat Hassan, Stefanos Georgiou, Toby Corbin, Ying Zou

DATE	START	END	TITLE	SPEAKERS
WED	11:15	11:45	A Hybrid Method using an Autoencoder and Centroid Distances for Phishing Kit Similarity	Ettore Merlo , Guy Jourdan , Julien Cassagne , Viorel Onut
WED	11:15	11:45	Automated deployment model via velox-bot integration with vm based kubernetes cluster	Franck Delporte , Ivy Ho , William Simmons
WED	11:15	11:45	Enabling developers to easily and openly learn cloud-native technologies	Gilbert Kwan , Priyanshi Patel , Rutav Shah , Ryan Storey
WED	11:15	11:45	Speeding-up CNN Models using POWER10 MMA Extensions	Guido Araujo , J. Nelson Amaral , Jose Moreira , Kit Barton , Victor Ferrari

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AWARDS

- PROJECT OF THE YEAR
- BEST PAPER
- FACULTY OF THE YEAR
- BEST STUDENT PAPER
- STUDENT OF THE YEAR
- BEST INDUSTRY PAPER
- COLLABORATOR OF THE YEAR
- MOST INFLUENTIAL PAPER
- IBM ADVANCED STUDIES VIDEO AWARD

PROJECT OF THE YEAR AWARD



"CAS PROJECT #1046 - CONVERSION AND RETENTION OF THE USERS"

HelloHelloHelloHelloHelloHelloHelloHello



f t in

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This project which started in 2017, best exemplifies the IBM Center for Advanced Studies mission by delivering excellence in applied research, exposing IBM development teams to new and emerging technologies, and transferring results into commercial products.

The project team focused on enhancing IBM's Cloud offerings by improving the maintenance and robustness of the IBM Cloud Platform Software, reducing the burden on the operations team of IBM DB2 Cloud offering, and increasing the trust between the IBM Cloud and its consumers by preventing log-tampering. The team is also implementing a reference architecture that allows users to get log and telemetry data and analysis by default on the IBM Cloud.

This project has led to numerous prototypes and product enhancements, one book chapter, four conference publications, three posters/demos/videos, seven invited talks, and one upcoming journal publication.

[Learn More about CAS Project #1046](#)

RESEARCH TEAM:

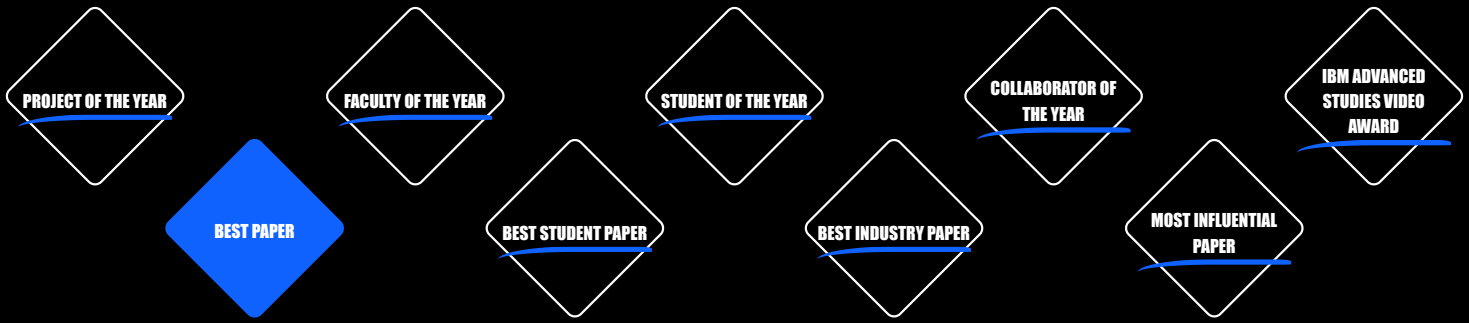
Professor Andriy Miranskyy, [Ryerson University](#)
Lei Zhang, [Research Associate, Ryerson University](#)
Sarah Sohana, [M.Sc. Candidate, Ryerson University](#)
Mohammad Islam, William Pourmajidi, [Ph.D. Candidates, Ryerson University](#)
John Steinbacher, [Project Lead and Manager, IBM](#)
Jeremy Brumer, Steve Woolf, Anthony W. Erwin, [Contributors, IBM](#)

HONOURABLE MENTIONS:

[CAS Project #1131](#) - Continuous Knobs tuning over Dynamic Data Environments, University of Ontario Institute of Technology, York University and IBM

[CAS Project #1092](#) - A knowledge-based Answering System based on Collaborative Q&A Platforms, Ryerson University and IBM



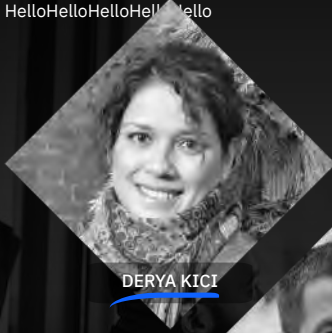


BEST PAPER AWARD

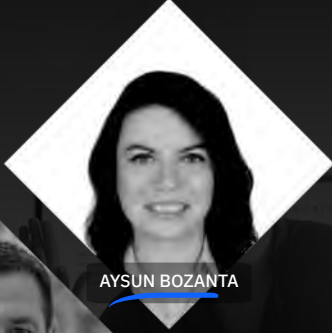


"TEXT CLASSIFICATION ON SOFTWARE REQUIREMENTS SPECIFICATIONS USING TRANSFORMER MODELS"

HelloHelloHelloHelloHello



DERYA KICI



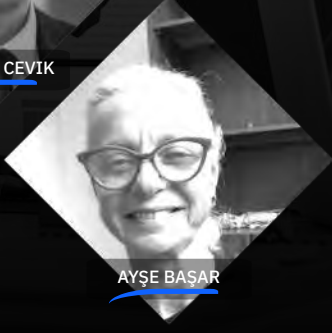
AYSUN BOZANTA



MUCAHIT CEVIK



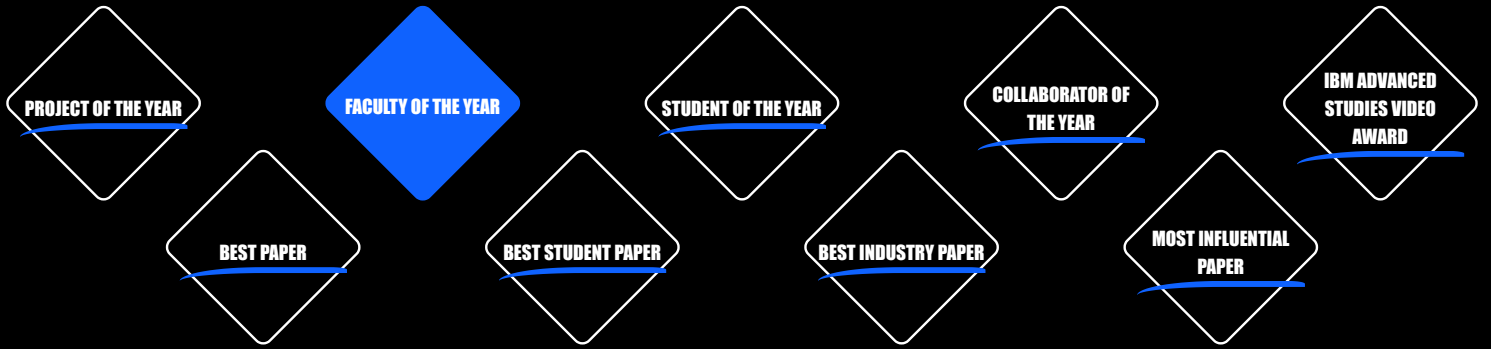
DEVANG PARIKH



AYŞE BAŞAR



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FACULTY OF THE YEAR AWARD



IVAN BESCHASTNIKH, UNIVERSITY OF BRITISH COLUMBIA

Hello



IVAN
BESCHASTNIKH



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Ivan has played an integral part in developing and leading Project #1105: Self-tuning servers for Kubernetes as the Principal Investigator. This project focuses on developing a tool that tunes cloud applications autonomously while identifying different workloads and adapting the configuration accordingly. It minimizes the need for the engineering team to instrument their code or constantly try esoteric configurations on their environments to maximize the performance of running their application in a cost-effective manner.

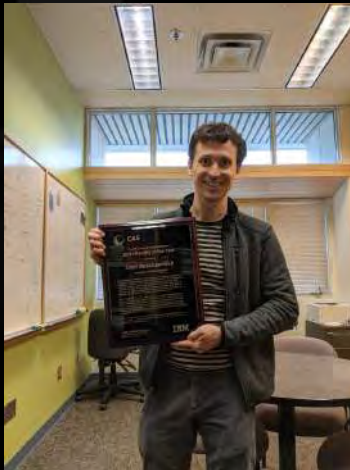
Ivan's engagement in the project has led to strongly maintained weekly progress and tremendous value for the IBM team. Under his supervision, his group conducted extensive background research to shape and direct the current project. He continues to encourage and guide the team towards continued success. His judgement has been invaluable in finding a balance between depth of research in key areas and expansion into new ones in a research domain that is vast and open-ended.

Ivan is heavily involved in sharing research through papers, workshops, and industry talks at various conferences and exposes the community to the potential of meaningful innovation.

HONOURABLE MENTIONS:

Arik Senderovich, [University of Toronto](#)

Hausi Müller, [University of Victoria](#)



PROJECT OF THE YEAR

FACULTY OF THE YEAR

STUDENT OF THE YEAR

COLLABORATOR OF THE YEAR

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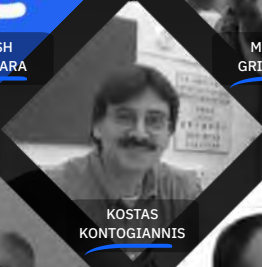
BEST INDUSTRY PAPER

MOST INFLUENTIAL PAPER

BEST STUDENT PAPER AWARD



"COMBINING DOMAIN EXPERT KNOWLEDGE AND MACHINE LEARNING FOR THE IDENTIFICATION OF ERROR PRONE FILES"



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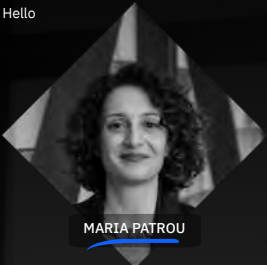




STUDENT OF THE YEAR AWARD



"MARIA PATROU, UNIVERSITY OF NEW BRUNSWICK"



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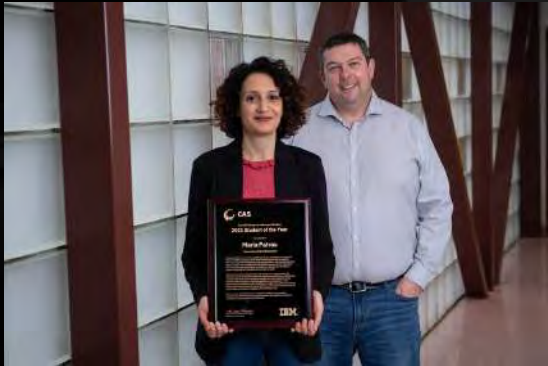
Maria joined IBM CAS in January 2015 as a M.Sc. candidate and studied the effects of NUMA awareness in the Java VM and how this can be used to efficiently share the CPU/memory in Java applications. Upon completion of her degree in 2017, she remained with the research group as a Ph.D. candidate. She started investigating Node.js in a cloud environment and methods to enhance execution performance and developer support.

She has gone above and beyond her role and is a true leader in the CAS-Atlantic research group. Maria takes the initiative to conduct her research with minimal supervision and consistently engages with other students across multiple research projects, offering suggestions and assistance in their research work. In addition to her contribution to IBM, while working on testing ideas around improving Cloud-based software, she helped devise a solution for a local start-up company struggling with scalability issues.

Maria's work made significant contributions to IBM's technological development, which has led to many prototypes, two patents, one journal publication, eleven papers and ten posters.

HONOURABLE MENTIONS:

- William Pourmajidi, [Ryerson University](#)
- Alexey Khrabrov, [University of Toronto](#)



PROJECT OF THE YEAR

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IBM ADVANCED STUDIES VIDEO AWARD

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"QUERY PREDICATE SELECTIVITY USING MACHINE LEARNING IN DB2®"

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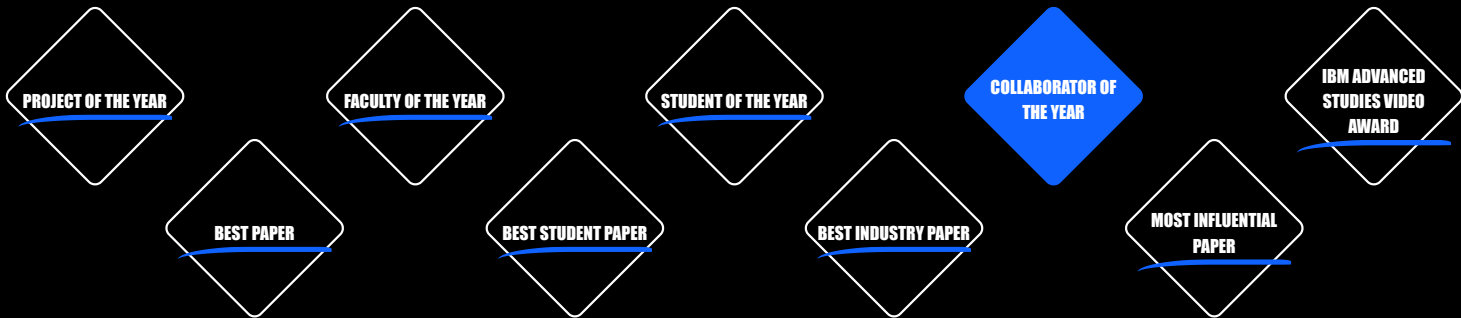
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SEBASTIAN CARBAJALES, IBM

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SEBASTIAN CARBAJALES

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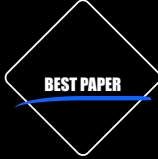
In 2021, Sebastian made significant contributions to Project #1122: Business Automation On-the-Go as a Project Lead. The project focuses on developing machine learning techniques to recognize intent from email exchanges to automate ad-hoc tasks without prior codification in a process model. While this is a relatively new project, the team has already accomplished noticeable progress in connecting declarative mining and workflow automation results. These results are incredibly relevant to our IBM product team.

Sebastian has played an integral role in his CAS research projects by driving them to successful outcomes. He possesses a thorough understanding of project vision, product architecture, and solution implementation, which has been critical for the success of research projects. Sebastian has always led the project-wide meetings, usually with five to eight other IBMers in attendance and an average of five researchers from the university side.

Sebastian exemplifies the IBM Center for Advanced Studies mission by demonstrating a drive for innovation, collaboration and forward-thinking research. Sebastian is the glue that connects all project members, especially by bridging the gap between the different languages that academics and industrial partners often speak, ensuring all team members understand each side.

HONOURABLE MENTIONS:

- Kit Barton, IBM
- Mark Stoodley, IBM

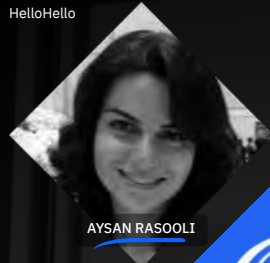


MOST INFLUENTIAL PAPER AWARD



**"AN ADAPTIVE SCHEDULING ALGORITHM FOR DYNAMIC HETEROGENEOUS HADOOP SYSTEMS
CASCON 2011"**

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AYSAN RASOOLI



DOUGLAS G. DOWN



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"CAS Project #1061 - DEVELOPING A GRADUATE COURSE USING ECLIPSE OMR, OPENJ9, OPENSIFT"

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The winning video excels at depicting the goals of Project 1061 while keeping a captive audience.

Employing powerful visuals, a unique voice-over using Watson Text to Speech Service, and a strong project description, the video fully captures and explains the research problem, goals and solution. It conveys a sound explanation of the project, keeps viewers engaged with quality production and presents a professional and educational feel.

This video stands out among the 40+ other submissions and testifies to the power of accessible content delivery.

[Learn More about CAS Project #1061](#)

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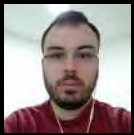
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- Ryan Liu, [University of Waterloo](#)
- Mingyang Xu, [University of Waterloo](#)
- Mark Stoodley, [Project Lead, IBM](#)
- Vij Singh, [Manager, IBM](#)
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HONOURABLE MENTIONS:

[CAS Project #1114](#) - Machine learning and computer vision for contactless patient monitoring in the NICU

[CAS Project #1104](#) - Monitoring and Improving Architecture of Microservice-based Applications





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postdoc fellow, The University of British Columbia



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








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FAQ

General

- What is CASCON x EVOKE?**

A premier industrial and academic conference for advanced studies in computer science and software engineering - sponsored by IBM Advanced Studies and EVOKE Foundation.
- Where is CASCON x EVOKE 2021 being held?**

CASCON x EVOKE 2021 will be held virtually. Register for the conference and invitation code to create an account on the virtual platform will be sent to you within 24 hours. If you cannot find the email please check your spam folder. If you still have not received your invitation code within 24 hours of registration please send an email to casinfo@ca.ibm.com.
- When does CASCON x EVOKE 2021 start?**

CASCON x EVOKE 2021 will be held from November 22 to 25, 2021, running from 9:30am to 5:30pm EST. Visit the [Program](#) page to learn more about the conference schedule.
- How can I contact the CASCON x EVOKE team?**

Please send an email to casinfo@ca.ibm.com if you have any inquiries related to the conference.

Attendee

- Where can I get a ticket?**

Navigate to the [Register](#) page and select the ticket type (Professional/Academic/Student) that best matches your affiliation.
- How do I access the virtual platform?**

After successfully registering for the conference, an invitation code to create an account on the virtual platform will be sent to you within 24 hours. Once your account is created, you can login to the virtual platform using the email and password you used to register.
- Where can I find the conference program?**

Visit the [Program](#) page to learn more about the conference schedule. You can filter the schedule based on 'Day', 'Topic', and 'Format'.
- How can I promote the conference**

We encourage you to share and discuss the conference on social media, using the hashtags #CXETechconf #AdvancedStudies and tag @IBMCANADA and @EvokeConf! Feel free to use the pictures and videos available here.
- Why can't I find the 'My Stuff' or 'Join Room' button on the virtual platform?**

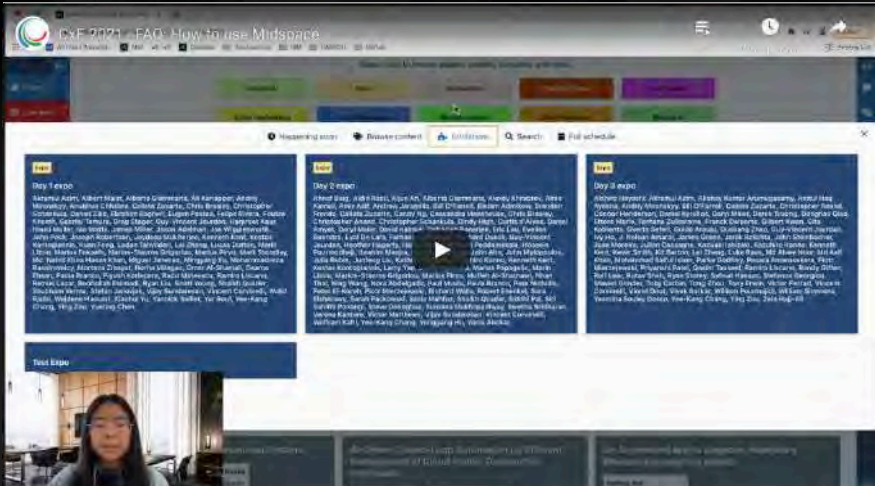
Please make sure you are logged in to the system. Navigate to the menu on the right-hand side, there should be a login button. If you are sure that you are logged in, then you may not have signed up to the system using the invitation code you were sent. Please search your inbox for the invitation code. If you cannot find the email please check your spam folder. If you still have not received your invitation code within 24 hours of registration please send an email to casinfo@ca.ibm.com.
- How do report an incident e.g. inappropriate content during the conference?**

There are a few ways to report and manage incidents

 1. Flag the spam message (click the 'flag' icon) to notify an organizer who will review
 2. Raise the issue directly with a volunteer or organizer via the Help Desk chat
 3. Speak privately in a 1-1 text or video chat if there are sensitive matters that require action
 4. Ask a Session Chairs/Channel Admin/Speakers to mute and/or remove disruptive individuals in the presentation space
 5. Direct message one of the organizers

See this [Resources](#) page for additional details.

What can I do after logging in to the virtual platform?

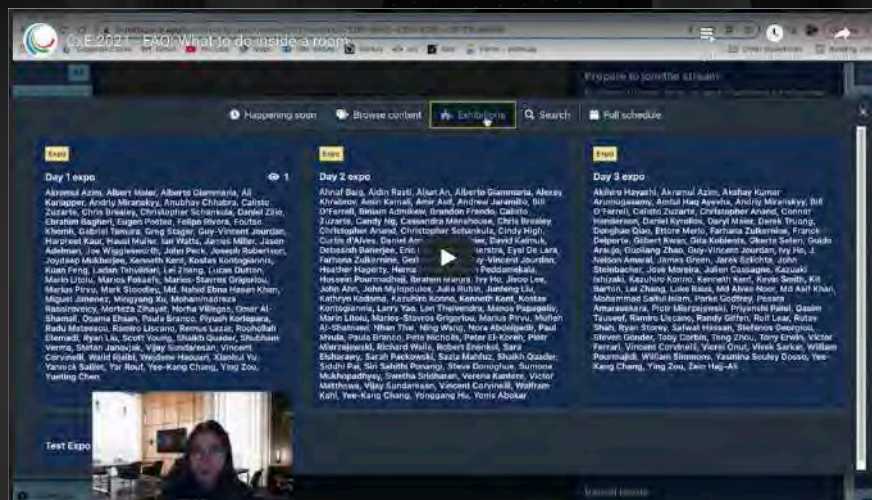


How do I create and edit my profile after logging in to the virtual platform?



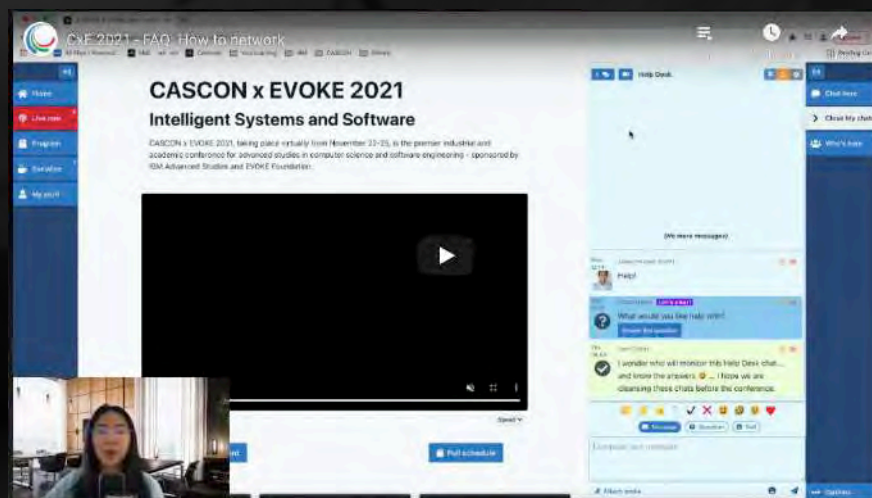
Here is a short video about creating and editing your profile after login to the virtual platform.

What can I do after joining a room on the virtual platform?



Here is a short video about what to do after joining a room on the virtual platform.

How can I network with other attendees on the virtual platform?



Here is a short video about networking with other attendees on the virtual platform.

Speaker

As a speaker, do I need to register for the conference?

Yes, everyone needs to register for the conference. Navigate to the Register page and select the ticket type (Professional/Academic/Student) that best matches your affiliation. After successfully registering for the conference, an invitation code to create an account on the virtual platform will be sent to you within 24 hours. If you cannot find the email please check your spam folder. If you still have not received your invitation code within 24 hours of registration please send an email to casinfo@ca.ibm.com.

Where can I download the Speaker Guide?

Speaker Guide can be downloaded [here](#).

I haven't received an invitation code to access the Virtual Platform. How can I get it?

Register for the conference and an invitation code to create an account on the virtual platform will be sent to you within 24 hours. If you cannot find the email please check your spam folder. If you still have not received your invitation code within 24 hours of registration please send an email to casinfo@ca.ibm.com.

Why my sessions are not listed in my backstage?

Only industry talks and paper presentations have a backstage. If your session is a workshop or an exhibit, then there is no backstage. If you do not see your industry talk/paper presentation in your backstage, you may have logged in using a different email than the one you used in your easyChair submission as that's the one we have associated you with speaker permission. Please register and login using the email that you used for submitting the presentation content in easyChair. Send an email to casinfo@ca.ibm.com for any questions.

Can I invite my family and friends to my talk/presentation/workshop/exhibit?

Yes! You are encouraged to invite colleagues, family, friends and other members of your network to register and attend your session. They'll have the chance to virtually join a unique audience of academia, research and industry professionals including developers, engineers, innovators, researchers, tech leaders and entrepreneurs for four days of learning, engaging and networking. Direct them to the [registration page](#) to register for free!

Is there a presentation template?

Presentation template can be downloaded from [here](#). While presenters are encouraged to use this themed template when preparing presentations, it is considered optional.

Can I have an unscheduled break during my workshop?

Yes, and you can modify this [here](#) slide and screen share it during the break.

Do I need to submit any pre-recorded videos?

All sessions will be live-streamed. Other than exhibit videos, no additional pre-recorded videos need to be submitted.

What do I need to prepare for the live-streaming on the virtual platform?

Please be sure to join the backstage of the session at least 15 minutes before your scheduled session time to test your camera, microphone and other settings in advance. Refer to the [Speaker Guide](#) for more details.

How can I promote my talk/presentation/workshop/exhibit?

If you have uploaded a photo to your speaker portal, you will receive a social media kit that includes personalized images that can be easily shared on social media. We encourage you to share these images to your social media networks to let them know that you'll be speaking at this year's CASCON x EVOKE conference! We also have general images and videos that can also be shared on social media available [here](#).

How do I receive my personalized social media kit?

Once you have uploaded your photo to your speaker portal, we will send the personalized social media kit to you within a few days. Please send an email to casinfo@ca.ibm.com if you have any questions or concerns.

How do I access my speaker portal?

An email with a link to your speaker portal should have been sent to you. If you cannot find the email please check your spam folder. If you still cannot find it, please contact casinfo@ca.ibm.com to have it resent to you.

How do report an incident e.g. inappropriate content during the conference?

There are a few ways to report and manage incidents

1. Flag the spam message (click the "flag" icon) to notify an organizer who will review
2. Raise the issue directly with a volunteer or organizer via the Help Desk chat
3. Speak privately in a 1-1 text or video chat if there are sensitive matters that require action
4. Ask a Session Chairs/Channel Admin/Speakers to mute and/or remove disruptive individuals in the presentation space
5. Direct message one of the organizers

See this [Resources page](#) for additional details.

Volunteer

As a volunteer, do I need to register for the conference?

Yes, everyone needs to register for the conference. Navigate to the [Register](#) page and select the ticket type (Professional/Academic/Student) that best matches your affiliation. After successfully registering for the conference, an invitation code to create an account on the virtual platform will be sent to you within 24 hours. If you cannot find the email please check your spam folder. If you still have not received your invitation code within 24 hours of registration please send an email to casinfo@ca.ibm.com.

Where can I download the Volunteer Guide?

Volunteer Guide can be downloaded [here](#).

Admin

As a channel administrator, do I need to register for the conference?

Yes, everyone needs to register for the conference. Navigate to the [Register](#) page and select the ticket type (Professional/Academic/Student) that best matches your affiliation. After successfully registering for the conference, an invitation code to create an account on the virtual platform will be sent to you within 24 hours. If you cannot find the email please check your spam folder. If you still have not received your invitation code within 24 hours of registration please send an email to casinfo@ca.ibm.com.

Where can I download the Channel Admin Guide?

Admin Guide can be downloaded [here](#).

A session has been canceled, what should I do?

Modify this [here](#) slide and screen share it during the canceled session.

WATCH REPLAYS

If you have already registered and created an account on Midspace and wish to proceed to the conference platform

WATCH REPLAYS

Click 'Watch Replays' to be directed to the conference platform.

CONFERENCE RECAPS

DAY 1 RECAP

CxE 2021: Day 1 Recap

1/1 Watch later Share

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IRENE ZAGUSKIN
JAKE HIRSCH-ALLEN