

SCHEDULE AT A GLANCE

Mon - Nov. 13	Cote-st-Luc	Hampstead	Lachine	Lasalle	
18:00-19:30	Welcome Reception				Fontaine B
Tue - Nov. 14	Cote-st-Luc	Hampstead	Lachine	Lasalle	
08:30-09:40	PLEN.1: Ram Sastry – Building a Smart City: A Perspective from a Power Utility			Westmount/Outremont	
09:40-10:30	GSP-DST.1: P. P. Vaidyanathan Graph signals: transforms, filter banks, uncertainty bounds, and sparsity	SGI-DST.1: Michael Chertkov OIL for District-Energy Systems	I TPS-DST.1: Demosthenis Teneketzis Control and Game Theoretic Approaches to Cyber Security	SAC-DST.1: Jinjun Xiong Approximate computing is universal and Stochastic computing is coming-Welcome to a new era of computing	
11:00-12:30	GSP-O.1: Graph Signal Processing I	SGI-O.1: Demand Response and Resiliency	I TPS-O.1: Control & Information Theoretic Approaches to Privacy and Security I	SACI.1: Invited Talks on Stochastic & Approximate Computing for Signal Processing and Machine Learning I	
12:30-14:00	Lunch				
12:30-14:00	Ethics for Authors				Fontaine D
12:30-14:00	Women in Signal Processing Luncheon				Salon Ville-Marie
14:00-15:30	GSP-O.2: Graph Signal Processing II	GS-IVM-O.1: Image and Video Processing I	I TPS-O.2: Control & Information Theoretic Approaches to Privacy and Security II	SACI.2: Invited Talks on Stochastic & Approximate Computing for Signal Processing and Machine Learning II	
14:00-14:30	[IEEE-HQ JOINT SESSION] HQ-D1: AI - Machine Learning and Large-scale Data Analysis, Applied to the Smart Grid			Outremont	
14:30-15:00	[IEEE-HQ JOINT SESSION] HQ-D2: AI - Machine learning for Equipments' Diagnostic and Pronostic			Outremont	
15:00-15:30	[IEEE-HQ JOINT SESSION] HQ-D3: Smart Charging of Electric Cars			Outremont	
16:00-17:30	GSP-DST.2: Geert Leus Stationary Graph Signals: Power Spectral Density Estimation and Sampling	GS-SLP-O.1: Speech and Language Processing	GS-MLSP-O.1: Machine Learning for Signal Processing		
17:30-19:30	Young Professionals Networking Event				Salon Ville-Marie
Wed - Nov. 15	Cote-st-Luc	Hampstead	Lachine	Lasalle	
08:30-09:40	PLEN.2: Brian Harrell – Physical Security is From Mars, Cybersecurity from Venus			Westmount/Outremont	
09:40-10:30	HCE-DST.1: Yuanqing Li Multimodal BCIs: Target Detection, Multi-dimensional Control, and Awareness Evaluation in Patients with Disorder of Consciousness	SCIOT-DST.1: Ioannis Papapanagiotou Proximity Based Services for Internet of Things equipped Smart Buildings	ADL-DST.1: Ling Guan Statistical Machine Learning vs Deep Learning in Information Fusion: Competition or Collaboration?	FDX-DST.1: Yang-Seok Choi Full-Duplex MIMO: Algorithms and Proof-of-Concept Performance	
11:00-12:30	HCE-O.1: Signal and Information Processing for Healthcare Engineering I	SCIOT-O.1: Signal Processing for Smart Cities & Internet of Things I	ADL-O.1: Signal Processing for Accelerating Deep Learning I	FDX-O.1: Signal Processing for Interference Cancellation and Full-Duplex Communication Systems	
12:30-14:00	Lunch				
14:00-15:30	HCE-O.2: Signal and Information Processing for Healthcare Engineering II	SCIOT-O.2: Signal Processing for Smart Cities & Internet of Things II	ADL-O.2: Signal Processing for Accelerating Deep Learning II	GS-IFS-O.1: Signal Processing for Information Forensics and Security	
14:00-14:30	[IEEE-HQ JOINT SESSION] HQ-C1: Moving from Lessons Observed to Lessons Learned (ICS specific)			Outremont	
14:30-15:00	[IEEE-HQ JOINT SESSION] HQ-I1: Internet of Things (IoT) for Power Grid Automation			Westmount	
14:30-15:00	[IEEE-HQ JOINT SESSION] HQ-C2: Leveraging IT-OT Security Convergence to Manage Complex Threats to Critical Infrastructure			Outremont	
14:30-15:00	[IEEE-HQ JOINT SESSION] HQ-I2: Node-RED : Connecting Things Together			Westmount	
15:00-15:30	[IEEE-HQ JOINT SESSION] HQ-C3: EPRI 2018 R&D Portfolio and Roadmap			Outremont	
15:00-15:30	[IEEE-HQ JOINT SESSION] HQ-I3: Distributed Energy Resources and Microgrids on the Demand Side			Westmount	
16:00-17:30	HCE-O.3: Signal and Information Processing for Healthcare Engineering III	SSP-O.3: Sparse Signal Processing and Deep Learning III	GS-BISP-O.1: Bio Imaging and Signal Processing	GS-SPTM-O.1: Signal Processing Theory and Methods	
Thu - Nov. 16	Cote-st-Luc	Hampstead	Lachine	Lasalle	
08:30-09:40	PLEN.3: Wen Tong – Polar Code Design and Its Standardization for 5G			Westmount/Outremont	
09:40-10:30	KBMC-DST.1: Jie Liang Overview of Embedded Deep Learning	LMD-DST.1: Tiago H. Falk Is signal processing still important in the era of (deep) learning of big biomedical data?	IOTHC-DST.1: Wendy Nilsen IOT, Data and Healthcare: How do we get it right?	FDX-DST.2: Harish Krishnaswamy Integrated Full-Duplex Radios: From Fundamental Physics and Integrated Circuits to Complex Systems and Networking	
11:00-12:30	KBMC-O.1: Knowledge-based Multimedia Computing I	LMD-O.1: Signal Processing & Machine Learning in Large Medical Datasets I	IOTHC-O.1: Big Data Analytics for IoT Healthcare		
11:00-12:00	3MT.1: 3-Minute Thesis (3MT) Competition			Westmount/Outremont	
12:00-14:00	Research Partnerships Forum				Salon Bonaventure
12:30-14:00	Lunch				
14:00-15:30	KBMC-O.2: Knowledge-based Multimedia Computing II	LMD-O.2: Signal Processing & Machine Learning in Large Medical Datasets II	GS-SPCOM-O.1: Signal Processing in Communications and Networks		
16:00-17:30	SSP-O.5: Sparse Signal Processing and Deep Learning V	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="display: flex; flex-direction: column; gap: 5px;"> <div style="display: flex; align-items: center;"> Plenary Talk</div> <div style="display: flex; align-items: center;"> Distinguished Speaker</div> </div> <div style="display: flex; flex-direction: column; gap: 5px;"> <div style="display: flex; align-items: center;"> Lecture Session</div> <div style="display: flex; align-items: center;"> Poster Session</div> </div> <div style="display: flex; flex-direction: column; gap: 5px;"> <div style="display: flex; align-items: center;"> Event</div> <div style="display: flex; align-items: center;"> Break</div> <div style="display: flex; align-items: center;"> Tutorial</div> </div> </div>			

SCHEDULE AT A GLANCE

Mon - Nov. 13		Mont-Royal	Verdun
08:30-09:40			
Tue - Nov. 14		Mont-Royal	Verdun
08:30-09:40			
09:40-10:30	SSP-DST.1: Muriel Medard Some connections between sparse signal processing and information theory		BIO-DST.1: Milos Popovic
11:00-12:30	SSP-O.1: Sparse Signal Processing and Deep Learning I		BIO-O.1: Advanced Bio-Signal Processing for Rehabilitation and Assistive Systems I
12:30-14:00			
12:30-14:00			
12:30-14:00			
14:00-15:30	SSP-O.2: Sparse Signal Processing and Deep Learning II		BIO-O.2: Advanced Bio-Signal Processing for Rehabilitation and Assistive Systems II
14:00-14:30			
14:30-15:00			
15:00-15:30			
16:00-17:30	GS-IVM-0.2: Image and Video Processing II		GS-SAM-0.1: Sensor Array and Multichannel Signal Processing
17:00-20:00			
Wed - Nov. 15		Mont-Royal	Verdun
08:30-09:40			
09:40-10:30	SGI-DST.2: Javad Lavaei High-Performance Optimization Methods for Power Systems: Theory, Algorithms, and Case Studies		DL-DST.1: Xiangui Kang and Z. Jane Wang Deep Learning for Image Forensics
11:00-12:30	SGI-O.2: Optimal Power Flow		DL-O.1: Deep Learning for Intelligent Multimedia Analytics & Security I
12:30-14:00			
14:00-15:30	SGI-O.3: Smart Grid Monitoring		DL-O.2: Deep Learning for Intelligent Multimedia Analytics & Security II
14:00-14:30			
14:30-15:00			
15:00-15:30			
16:00-17:30	GS-IVM-0.3: Image and Video Processing III		DL-O.3: Deep Learning for Intelligent Multimedia Analytics & Security III
Thu - Nov. 16		Mont-Royal	Verdun
08:30-09:40			
09:40-10:30	RMN-DST.1: Wei Yu Fractional Programming Approach to Coordinated User Scheduling and Spectrum Sharing for Wireless Networks		FIN-DST.1: Moninder Singh Applying Data Science for Human Capital Management in the Modern Enterprise
11:00-12:30	RMN-O.1: Distributed Optimization and Resource Management over Networks I		FIN-O.1: Signal and Information Processing for Finance and Business
12:30-14:00			
14:00-15:30	RMN-O.2: Distributed Optimization and Resource Management over Networks II		SSP-O.4: Sparse Signal Processing and Deep Learning IV
16:00-17:30	GS-IVM-0.4: Image and Video Processing IV		Academia/Industry Mixer Panel: Advances in Artificial Intelligence, Big data and Signal processing in Financial Market and Business Intelligence

Poster Sessions	
Fontaine A	
Tue - Nov. 14	
14:00-15:30	
GS-SPCOM-P.1: Signal Processing in Communications and Networks Posters	
GS-IFS-P.1: Signal Processing for Information Forensics and Security Posters	
HCE-P.1: Signal and Information Processing for Healthcare Engineering Posters	
DL-P.1: Deep Learning for Intelligent Multimedia Analytics & Security Posters	
16:00-17:30	
GSP-P.1: Graph Signal Processing Posters	
SSP-P.1: Sparse Signal Processing and Deep Learning Posters I	
SAC-P.1: Stochastic & Approximate Computing for Signal Processing and Machine Learning Posters	
Wed - Nov. 15	
14:00-15:30	
GS-SPTM-P.1: Signal Processing Theory and Methods Posters	
RMN-P.1: Distributed Optimization and Resource Management over Networks Posters	
FDX-P.1: Signal Processing for Interference Cancellation and Full-Duplex Communication Systems Posters	
IEEE-HQ-P.1: Learning and Modelling in Energy Management and Smart Grid I	
16:00-17:30	
SGI-P.1: Learning, Modeling, and Control in Smart Grids	
GS-SIPA-P.1: Signal and Image Processing Applications Posters	
IEEE-HQ-P.2: Learning and Modelling in Energy Management and Smart Grid II	
Thu - Nov. 16	
14:00-15:30	
GS-IVM-P.1: Image and Video Processing Posters	
FIN-P.1: Signal and Information Processing for Finance and Business Posters	
16:00-17:30	
SSP-P.2: Sparse Signal Processing and Deep Learning Posters II	

Tutorials	
Fontaine E	
Thu - Nov. 16	
14:00-14:45	
T1: Integrating Signal Processing, Machine Learning and Deep Learning	
14:45-15:30	
T2: Deep Learning Tools and Frameworks	
16:00-16:45	
T3: Deep Learning Tools and Examples in Video Data Analytics	
16:45-17:30	
T4: Machine Learning for Healthcare	
17:30-18:15	
T5: Internet of Things	