S.M.P.T.E.
Montréal / Québec / Ottawa Chapter

Evening Presentation Notice

Date: Tuesday, November 20th, 2018
Time: 18:00 to 21:30
Location: Télé-Québec Studio TV1 (follow signs from reception)

1000, rue Fullum, Montréal (Québec) H2K 3L7
Fee Parking across the street

Organized by: Marie-Ève Bilodeau, ÉTS and François Bourdua, VS-TEK
Sponsored by: SMPTE Montreal

Language: French

Subject: The AV1 format in the context of real-time broadcasting

IMPORTANT: In order to participate to this evening, you need to register via Eventbrite before November 16th, 2018.

This presentation is open to all but seating is limited.
A streaming service on our Facebook page (https://www.facebook.com/SMPTEMTL/)

For this presentation, your SMPTE-MTL committee is teaming up with Mr. Luc Trudeau of Two Orioles to present an evening on the AV1 format in the context of real-time broadcasting.

The new video format Alliance Vidéo 1 (AV1) is an open, royalty-free video format developed by the Alliance for Open Media, a group of companies including Google, Apple, Facebook, Amazon, Microsoft and many others. Although it has been developed by the web giants, AV1 has great potential in the context of real-time broadcasting, where it is currently controversial. This controversy is mainly fueled by companies that promote products based on proprietary standards established by expert groups.

How to navigate in what some call the codec war? This presentation on the AV1 format in the context of real-time broadcasting, is intended to be semi-high level and does not seek to polarize the debate, but tries to demystify analyst reports and exhibition fair propaganda in order to enable a better understanding of video encoding in the context of real-time broadcasting.

By semi-high level, the author hears that it is not the lecture on encoding, but that encoding elements are presented in a summary way. This is intended to aid understanding and comparison with other video formats, to facilitate the understanding of analyst reports on the subject and to guide decision making.

Specifically, the following points will be addressed during the presentation:

- Elements of modern video formats used in the context of real-time broadcasting.
- The role of Programmable Logic Devices (FPGAs) and Graphics Processors (GPUs) in real-time streaming of next-generation video formats.
- The importance of the decoder in real-time broadcasting and advanced decoding in parallel.
- The elements of the AV1 format that will give it an advantage in the context of real-time broadcasting.

But above all, join us for our Happy Hour where you can get in touch with your colleagues and friends, discuss and network at 18h and where bites and beverages will be offered.

Version française sur document séparé
https://www.smpte.org/sections/montrealquebec
NOTICE-NOTICE-NOTICE
PRESENTATION OPEN TO ALL BUT RSVP ON EVENTBRITE
PLEASE POST... PLEASE POST... PLEASE POST...
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**Biography:**

**Luc Trudeau**

Passionate about video compression, Luc Trudeau is both a researcher and an engineer. He co-authored the new video format Alliance Video (AV1) from the Alliance for Open Video, as well as authored several patents and articles accepted in leading conferences in this field.

Currently a researcher for Two Orioles, he is involved in several projects related to the AV1 format, including the dav1d project, the fastest software decoder for the AV1 format. Previously, as a research assistant at Mozilla, he designed and integrated compression tools for chrominance in AV1 format. This format, which is in deployment at YouTube, Netflix, Facebook and many others, is the first to have compression tools designed specifically for chrominance.

Luc is a triple graduate of the École de Technologie Supérieure: Bachelor's degree in Software Engineering (2008), Master's degree in Information Technology (2011) and PhD in Applied Research in the field of Digital Video (2017).

In parallel with his studies, Luc worked as a lecturer, mentor and software developer for Ericsson. At Ericsson, he worked on several projects, including IPTV solutions. As a lecturer at the School of Advanced Technology, he taught at the Bachelors and Masters level.