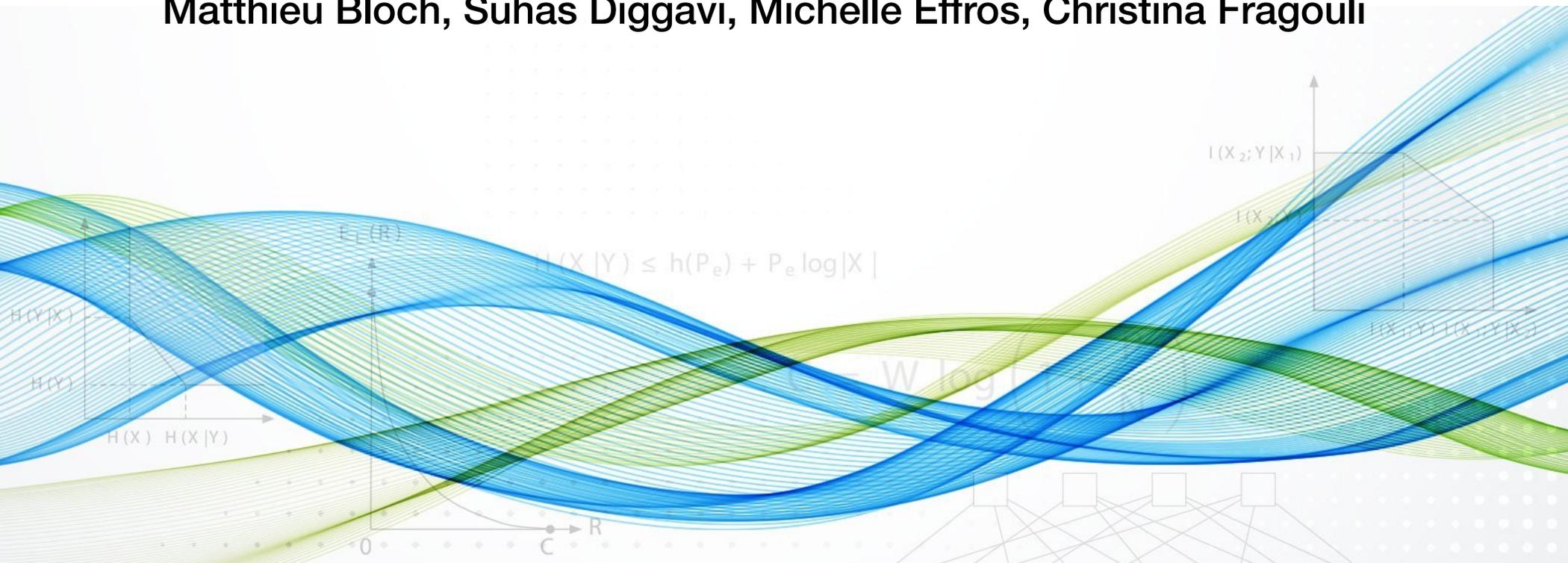


Pilot video project report

IEEE Information Theory Society Board of Governors

BoG meeting, 6/25/17 - Aachen

Matthieu Bloch, Suhas Diggavi, Michelle Effros, Christina Fragouli



Status report

► Project objective

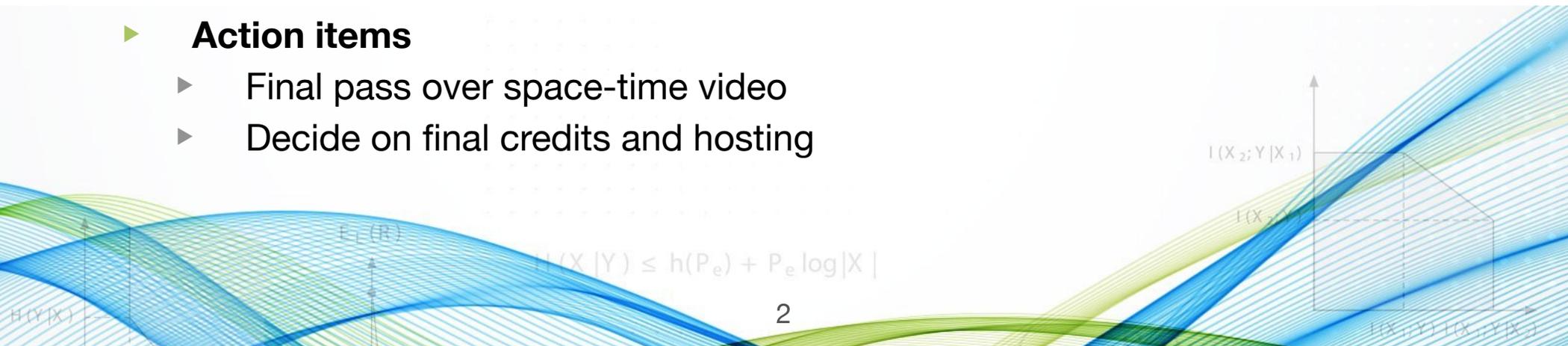
- Develop videos showcasing intriguing or impactful ideas coming from IT
- Targeted audience: 10th grade and up
- Challenge: explain concepts concisely to a broad audience

► Current status

- Videos developed in partnership with Brit Cruise
- Network coding video preview
 - <https://www.youtube.com/watch?v=ZpcT7QhXbVs>
- Space time coding video preview:
 - <https://www.youtube.com/watch?v=AgD9BIGusY8>

► Action items

- Final pass over space-time video
- Decide on final credits and hosting



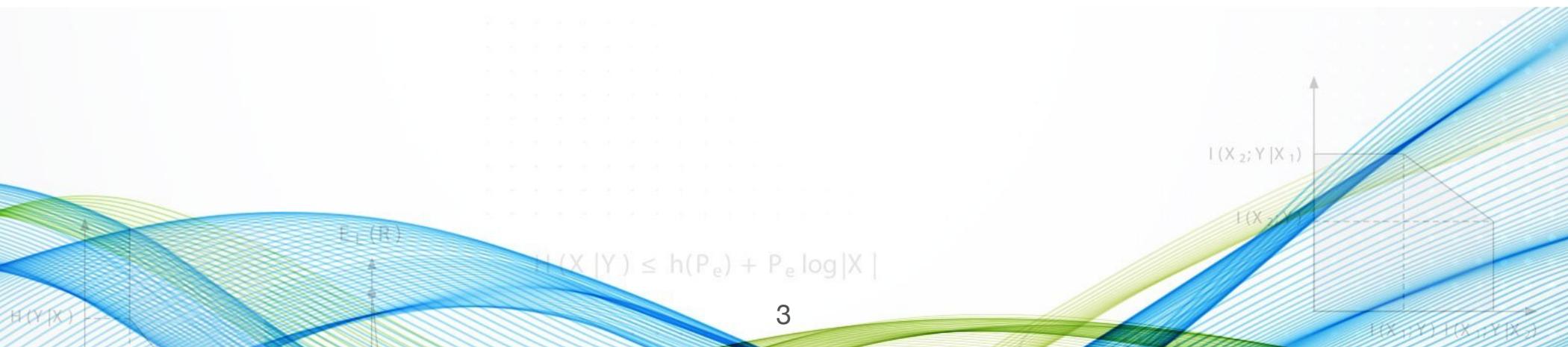
Finalizing videos

► Credits of videos

- IEEE Information Theory Society and IEEE as producers
- Brit Cruise as Director
- Animation and music composers
- Those of us involved in the project as consultants.

► Hosting of videos

- Initially host them on Brit's "art of the problem" website (solid viewership well exceeding our usual reach)
- Will ensure **most visibility** and **jumpstart** the videos
- No impact on the video rights (with IEEE)
- Videos linked to/from ITSoc website and channels



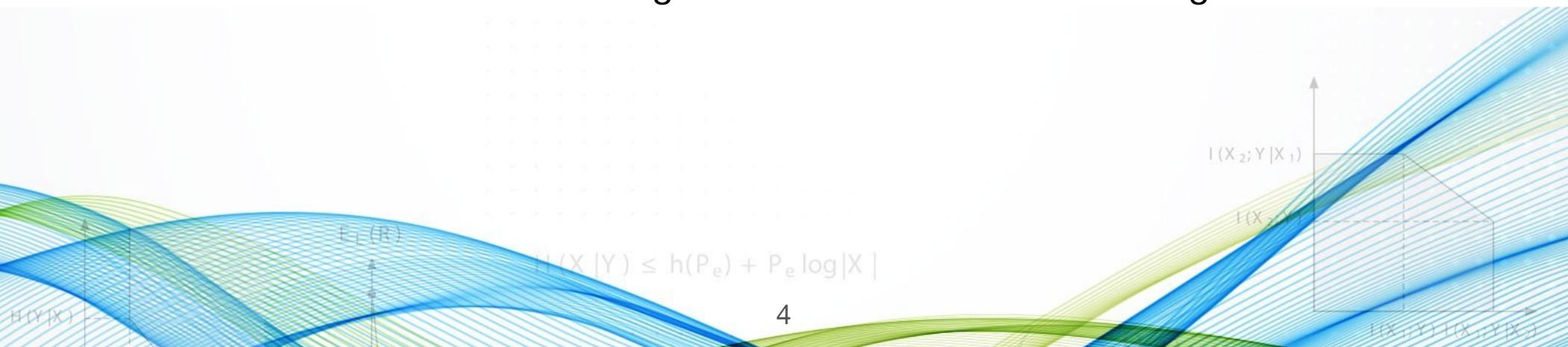
Future steps

▶ **Future videos**

- ▶ Funding available for 2-3 videos
- ▶ **Objective:** gather ideas from IT community

▶ **Call for video proposals**

- ▶ Call sent out in April 2017 to ITSoc mailing list
- ▶ Second round of advertising at ISIT
- ▶ Two formal proposals received so far
 - ▶ Switching in Networking
 - ▶ Quantum information theory
- ▶ Two informal proposals suggested
- ▶ Reached out to several energetic researcher who could be a good fit



Call for short videos

CALL FOR VIDEO PROPOSALS - Last year, as part of the Claude Shannon Centennial Celebration, the IEEE Information Theory Society (ITS) launched a pilot program to create short educational videos showcasing intriguing results from Information Theory (in a broad sense) for a large audience. The first video introducing Network Coding is [now available](#). Another video on MIMO/space-time codes is already underway.

ITS has extended the project to continue highlighting the contributions of the Information Theory Society, and is now seeking volunteers to define and create the next three videos.

Were inviting you to participate in this project.

If there is a concept, idea, or method rooted in information theory that you think the world should know about, let us know.

Suggest ideas via your proposal and if selected, we will help you to refine the idea and create a video. We have partnered with specialists who help us refine and create all aspects of the video, from extracting the essence of the chosen topic to generating a script and creating animations. We just need your help to shepherd the process, provide your technical perspective and make sure the description provided is accessible and correct.

What topics are of interest?

Any topic related to information theory, security, data compression, networking, coding theory, signal processing, etc., is potentially a good fit for the project. The presentation should highlight the contributions of ITS and be made accessible to high school students. We will help you get there.

The IT Society will fund the production and retain the rights to the videos produced as part of this program, which will be used for non-profit/outreach efforts. Of course, linking that video on your website will be possible and encouraged.

How to submit a proposal:

Send an email to matthieu.bloch@ece.gatech.edu including the following items:

- 1 Suggested topic
- 2 Rationale for the choice including, if applicable, the impact the topic has had, its potential transformative aspect, and why you're excited about creating a video on the topic.
- 3 A commitment that, if selected, you are willing to put in the required time and be available to meet and help create the video as described above.

There will be two independent rounds of selection.

Proposal deadline for first round of selection: 15 May 2017 (one video proposal will be selected)

Proposal deadline for second round of selection: 15 July 2017 (two video proposals will be selected)

Proposals not selected in the first round will receive feedback and will be given the opportunity to submit an updated version for consideration in the second round.

How will proposals be selected?

A committee composed of ITS volunteers Matthieu Bloch, Suhas Diggavi, Michelle Effros, and Christina Fragouli will evaluate the proposals. Proposals will be ranked according to two criteria:

- 1 Suitability of topic for a broad audience, and
- 2 Commitment of the proposer.

What is your commitment?

If your proposal is selected, we need you to bring your enthusiasm and energy, and commit to meet for 45 minutes each week over 8-12 weeks* to help define and refine the video content.

Questions? Please contact matthieu.bloch@ece.gatech.edu for further information.

Thank you in advance for submitting your proposals. We look forward to your submissions!

IEEE Information Theory Society

* Estimate is based on previous videos.

