I noted that the group of Elke Rudensteiner has two EDBT papers on event processing in streams. Maybe we should check if this relates to our work?

Michael.

Research Session 14 Stream Query Processing

\* Liarou, Stratos Idreos, Stefan Manegold and Martin Kersten. Enhanced Stream Processing in a DBMS Kernel

\* Wang, Elke Rundensteiner, Han Wang and Richard Ellison. Probabilistic Inference of Object Identifications for Event Stream Analytics

\* Ray, Elke Rundensteiner, Mo Liu, Chetan Gupta, Song Wang and Ismail Ari. High Performance Complex Event Processing using Continuous Sliding Views

Not really germane to the current thread, but the IEEE Communications Society's free paper this month is from Nov. 2012 IEEE Network and talks about visualizing IPTV info.   
<http://www.comsoc.org/free-article-month>   
"Contextualized Monitoring and Root Cause Discovery in IPTV Systems Using Data Visualization"   
  
The useful bit in it is towards the beginning, where it describes the data stream coming from IPTV users: message fields, message size and aggregate bandwidth. It also indicates they do some on-line event processing, in addition to archiving and analyzing the data.   
  
So, might be useful as an example some time if we want a contrast to traffic & dye data.   
  
DM

I found a little info on metrics for distance between two plots. See the 6th and 7th slides of

<https://www.rocq.inria.fr/axis/COMPSTAT2010/slides/slides_44.pdf>, for example. That presentation references the Peleg Werman paper,

which I dug up and attached here. It's apparently an early formulation of earth mover (before it was called earth mover), in the

context of reassigning gray levels of images. See the paragraph I highlighted in particular. It seems that earth mover is a

special case of the plot distance problem, which is computationally hard to solve in general because it's a combinatorial problem.

I need to look at our code and plots more, but I assume there are some simplifying assumptions in our case. The paper mentions

Euclidean distance as one possible metric, so maybe Michael already had a decent measure going.

Jim