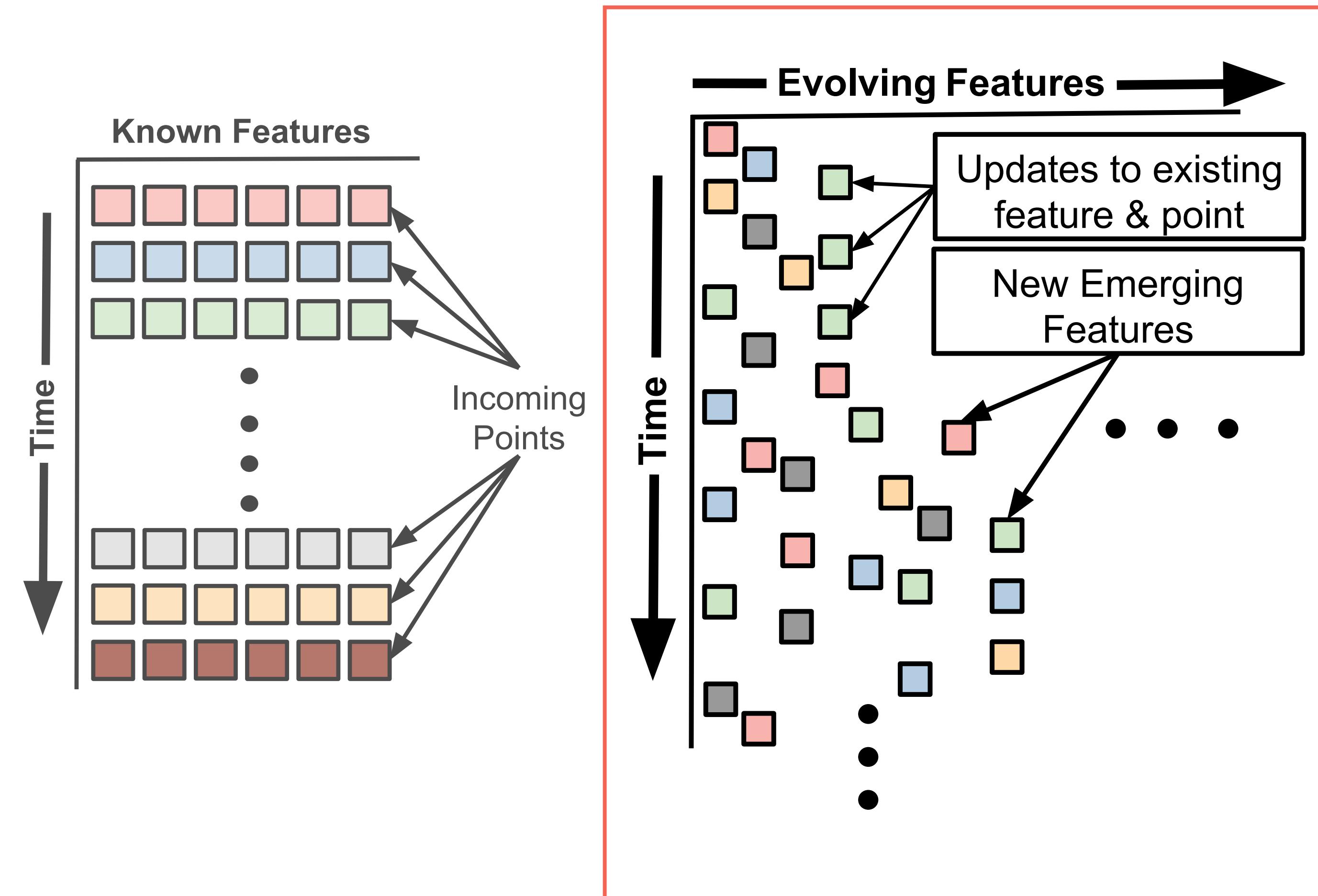


xStream | Outlier Detection in Feature-Evolving Data Streams



What if your **feature space**:

- **evolves over time?**
- **has infinite size?**
- **is unknown a-priori?**



#kdd2018

#icml2018

#nips2018

| #kdd2018 in London, August 19 – 23, will feature keynotes by David Hand, Alvin Roth, @yeewhye and Jeannette Wing ... | Towards Actionable Intelligence - this #icml2018 tutorial was so good! ... | ... do you like the acceptance in #nips2018 to be decided by random noise? ... |



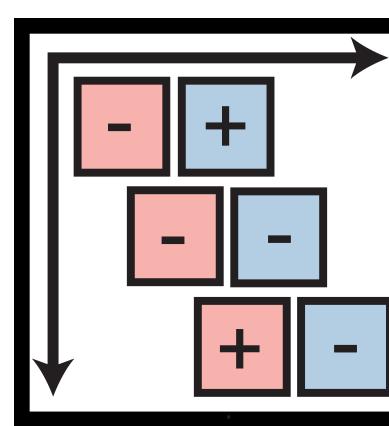
Emaad Manzoor



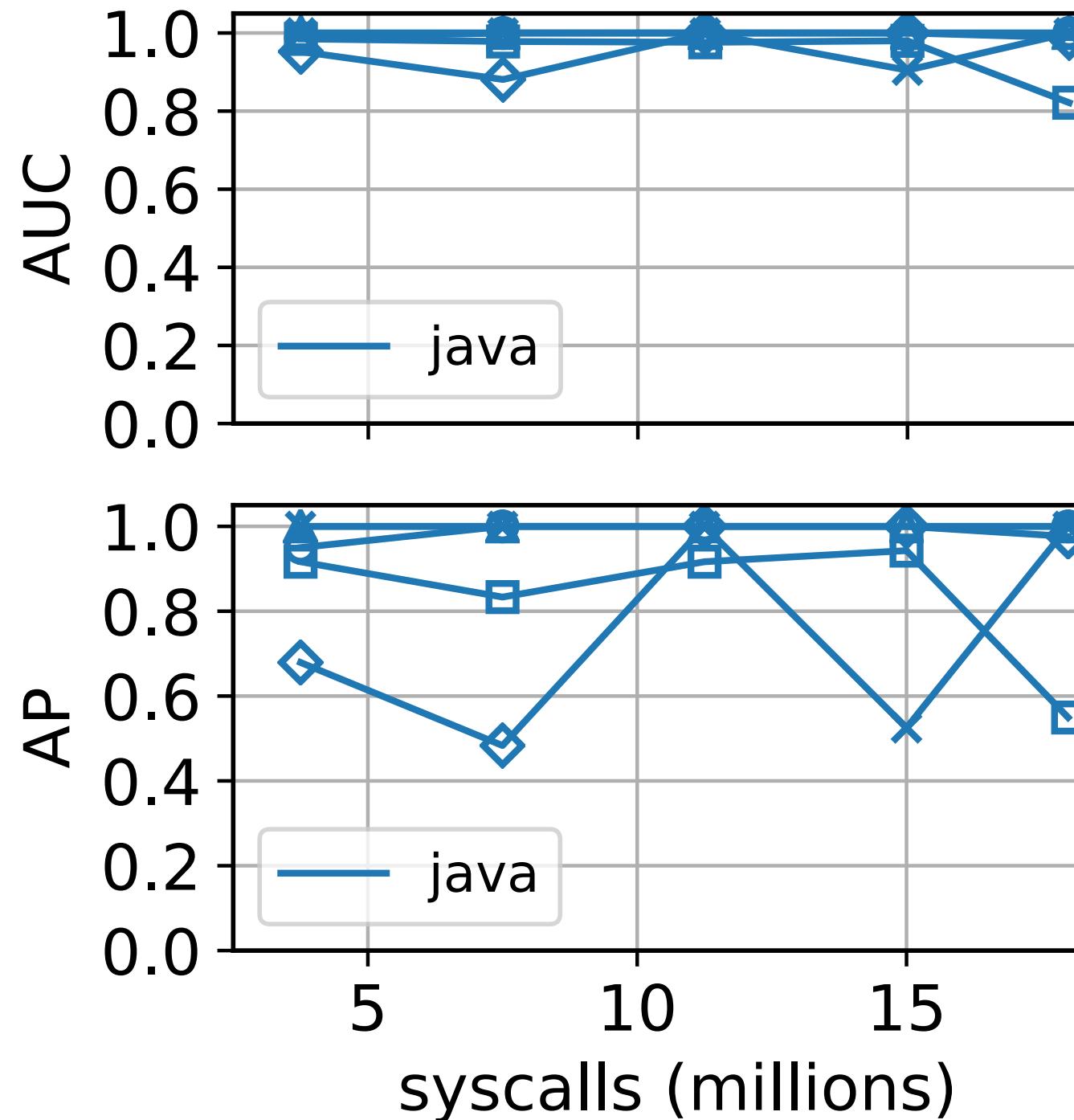
Hemank Lamba



Leman Akoglu



xStream | Outlier Detection in Feature-Evolving Data Streams



xStream performs:

- **multi-scale outlier detection, on**
- **dynamic, feature-evolving streams, via an**
- **ensemble of hierarchical space partitioners, in**
- **constant time and space**

Code & data available at cmuxstream.github.io



Emaad Manzoor



Hemank Lamba



Leman Akoglu