



General Information

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Paris Descartes University

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Targeted topics

SU-INFRA01-2018-2019-2020	Prevention, detection , response and mitigation of combined physical and cyber threats to critical infrastructure
SU-FCT03-2018-2019-2020	Information and data stream management to fight against (cyber)crime and terrorism
SU-BES02-2018-2019-2020 subtopic 2	Technologies to enhance border and external security - subtopic 2: Detecting fraud , verifying document validity, and alternative technologies to identifying people

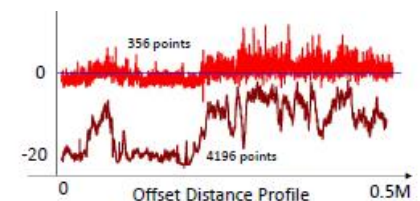
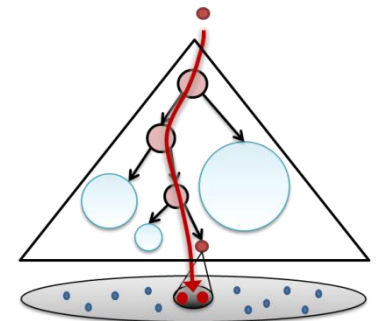
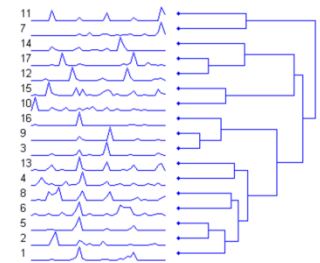
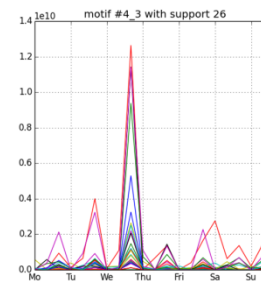


Experience

- *Area of expertise:*
 - **Data management and data analytics**
- *Current positions*
 - **Institut Universitaire de France (IUF), Senior Member**
 - **Paris Descartes University (France), Full Professor**
- *Past Postitions*
 - **University of Trento (Italy)**
 - **IBM T.J. Watson Research Center (USA)**
 - **University of California at Riverside (USA)**
 - **Microsoft Research (USA)**
 - **IBM Almaden (USA)**
- *Participated in 8 EU-funded projects*
 - **Coordinated 1 of those**

Competencies

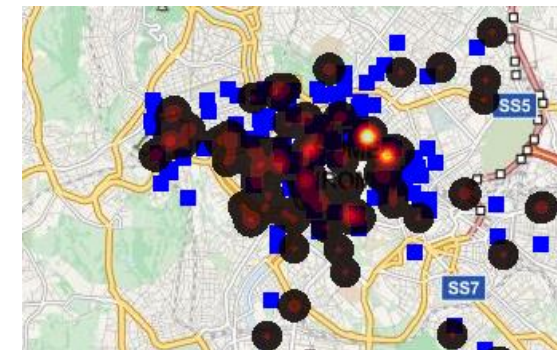
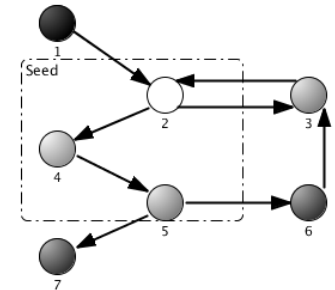
- *Time series analysis and mining*
 - **clustering**
 - **classification**
 - **outliers**
 - **streaming algorithms**
- *Developed current state-of-the-art techniques for time series similarity search*
 - **scalable to TBs of data**
- *We have applied our work on sensor data monitoring/analysis*
 - **road tunnel monitoring (increased wireless sensor lifetime 8x)**
 - **communications networks analysis**
 - **anomaly detection (communications, manufacturing, EDF)**





Competencies

- *Data analytics*
 - frequent patterns
 - outliers
 - fraud detection
 - streaming algorithms
- *We have applied our work on fraud detection*
 - identification of fake pharmacies on the web (collaboration with INTERPOL)
 - fraud detection on mobile phone operators
 - entity resolution
- *We have applied our work on fraud detection*
 - fine-grained (neighborhood) geolocalization of non-geotagged tweets





interested in big data analytics problems

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